TRANSPORTATION IN CHINA 2025 | 中国交通2025
CONNECTING THE WORLD | 联通世界

第十九届COTA国际交通科技年会

Conference Guide

JULY 5TH - JULY 8TH — 2019
NANJING, CHINA

TRANSPORTATION IN CHINA 2025:

CONNECTING THE WORLD

中国交通 2025：联通世界

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The 19th COTA International Conference of Transportation Professionals

Transportation in China 2025: **Connecting the World**

Welcome Remarks

It is our great pleasure to welcome you all to the 19th COTA International Conference of Transportation Professionals (CICTP 2019) in Nanjing, China. The CICTP2019 is jointly organized by Chinese Overseas Transportation Association (COTA), Southeast University, and Jiaotong International Cooperation Service Center of Ministry of Transport. The CICTP annual conference series was established by COTA back in 2001 and in the past two decades benefited from support from the American Society of Civil Engineers (ASCE), Transportation Research Board (TRB), and many other organizations and partners.

We are pleased to announce that the CICTP2019 received a large number of high-quality technical contributions: among the nearly 1,200 paper submissions, a total of 500 full papers were accepted for publication in the proceedings. These published papers went through a rigorous technical review and English editing process for quality assurance. Centering around the theme "Transportation in China 2025: Connecting the World", the CICTP2019 proceedings papers address a wide range of topics. We hope the research and studies gathered in this conference will contribute to solving future needs of a multimodal transportation system, and help to advance transportation sustainability, energy independence, economic vitality, and quality of life. CICTP2019 will issue several awards, including Best Papers, Outstanding Area Editors, and Outstanding English Editing Chairs, to recognize the authors, reviewers and editors' contributions and their dedication to the conference and transportation research and practice in general. The authors of selected papers will also be invited to submit their papers to three journal special issues in Journal of Intelligent Transportation Systems, IET Intelligent Transportation Systems, and Journal of Transport and Land Use.

CICTP2019, the highest-quality, comprehensive transportation conference in China, has attracted more than 1500 participants internationally from countries and regions all over the world, including mainland China, United States of America, Hong Kong, Canada, Singapore, Australia, United Kingdom, Sweden, India, Japan, Belgium, Switzerland and more. Nearly fifty conference sessions such as plenary, invited, and technical sessions, as well as special forums are organized this year. All accepted papers are presented at the conference in podium or poster sessions. The CICTP2019 Executive and Organizing Committee has invited more than 40 internationally recognized, prestigious experts and scholars to deliver talks in keynote and plenary sessions. These invitees will share their insights, thoughts, visions, and experiences on a variety of current practices and state-of-the-art research topics. More than 50 additional internationally recognized researchers and practitioners are also invited to present recent research findings and best practices at CICTP 2019.

CICTP2019 special forums will focus on issues that are of interest to our attendees, including Government Forum for Transportation Policy, World Bank Transportation Development Forum, Deans' Forum for Chinese University Transportation Schools, and COTA Professional Development Forum for Young Scholars and Students. COTA will also present professional awards such as COTA life-time achievement award, outstanding leadership award, and/or outstanding service award, will be granted to individuals who have made outstanding contributions to the development of transportation systems in China and internationally. The 9th China Transportation Research and Technology Exhibition will be also held in conjunction with CICTP2019 to showcase the latest achievements of research and practices, which include the exhibition of innovative and creative research results by companies, agencies, researchers, and graduate students.

On behalf of the CICTP 2019 Organizing Council, we would like to express our sincere gratitude to all authors and conference participants for their great contributions. We are grateful to all paper reviewers and English editors for their excellent efforts. Special thanks go to Southeast University, COTA members including COTA Board of Directors, and Jiaotong International Cooperation Service Center staffs for their generous support to the conference and offering their time and efforts. Last but not least, we also wish to thank all conference committee members, sponsors, invited speakers, session chairs, conference staff members, and volunteers for their hard work that make CICTP 2019 a great success!

The CICTP conference series have been an open, high-quality, and inclusive platform for information exchange, experience sharing, and professional networking over the past nineteen years. We hope that you will enjoy the technical and social activities of this year's conference and that you will also find time to explore Nanjing, the capital of China's Jiangsu Province.

Sincerely,

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Chinese Overseas Transportation Association (COTA)

Established in January 1996, COTA (formerly NACOTA or North America Chinese Overseas Transportation Association) is a non-profit professional organization registered in Maryland, USA. The main missions of COTA are to strengthen connections between overseas transportation professionals worldwide and their counterparts in China, promote transportation development in China by providing knowledge and expertise through its members, enhance networking and collaboration among its members and serve as an information and knowledge-sharing platform on transportation development for all transportation professionals. COTA has approximately 1000 members and friends in North America and other parts of the world.

The CICTP series, formerly ICCTP (International Conference of Chinese Transportation Professionals), is one of two major conferences that COTA organizes every year (the other is a winter symposium series held in conjunction with the Transportation Research Board (TRB) Annual Meeting every January in Washington D.C. CICTP is held in China every summer and is the premier gathering for Chinese transportation professionals worldwide and for those who are interested in contributing to or gaining a deeper understanding of the transportation development in China and other countries. CICTP has become the most influential academic conference in China. The Transportation Research Board (TRB) of the U.S. National Academies cosponsors CICTP.

School of Transportation

The School of Transportation at Southeast University plays a significant role in the field of roadway transportation in China. The origin of the school can be traced back to the Highway Engineering Program in the Department of Civil Engineering at the National Southeast University in 1923.

The School has succeeded in establishing a cluster of programs with comprehensive research focuses, distinctive characteristics and outstanding strengths in the field of roadway transportation. The school consists of 7 departments, three research centers, and two industrial organizations. As the core discipline, the Transportation Engineering program is a national key primary discipline which has significant domestic and international influences. The program ranks first in the most recent national discipline ranking conducted by the Ministry of Education of China in 2017. The Transportation Engineering discipline in the School of Transportation has been listed in first batch of "double first-class" disciplines (world firstclass universities and first-class disciplines) in 2017.

The School has formed a high-level academic team, which includes an academician

of the Chinese Academy of Engineering, National Renowned Teachers, and National Distinguished Experts. The faculty team is nationally recognized in terms of the scholar achievements and the influence on the transportation industry in China. Currently the School of Transportation has 166 faculty members, including 61 professors, 65 associate professors and 71 assistant professors. We also boast one Innovation Research Team awarded by the Ministry of Education of China and two National Teaching Innovation Teams.

The School has been consistently leading the country in the areas of urban transportation planning, transportation system optimization, and pavement structures and materials. So far we have received fourteen National Scientific and Technological Progress Awards and National Technological Invention Awards.

The School has cultivated numerous graduates with solid foundation of knowledge, comprehensive qualities, strong sense of responsibilities, practical skills and innovation spirits. A great many of them have become leading figures in technology innovation and administrative leadership in transportation industry in China. At present, the school has 1289 undergraduates and 1009 graduate students in a total of six undergraduate programs, twelve master's degree programs, and nine doctoral programs.

JICSC
交通国际合作事务中心
Jiaotong International Cooperation Service Center

Jiaotong International Cooperation Service Center

As an affiliated institution of the Ministry of Transport, JICSC is established upon the co-approval of the central staffing department and the Ministry of Transport. It serves the MOT in promoting international exchanges and cooperation, and promotes the development of transport industry with its technical, intelligence and service strength. Formerly known as the Foreign Affair Center of Ministry of Transport since its establishment in 1989, not only the name has changed, but also the business of JICSC significantly expanded from merely providing traditional foreign affair service to strategy and policy study consulting concerning industrial development and openness, hosting international expo and international exchanges and cooperation events. In 2017, JICSC undertook the Facility Connectivity Parallel Session of "Belt and Road Forum for International Cooperation", started to operate the Global Environment Fund Office, hosted the 1st International Transport Safety Expo, organized the 9th China-US Transportation Forum, and conducted international policy studies on the topic of new energy automobiles promotion. Tiding the wave of development and openness, JICSC will forge ahead with firm determination and rigorously intend for innovation in the new era of 2019. We are committed to be a positive contributor to the global governance of transport industry.

CHILIN 麒麟
中国·南京·麒麟科技创新园

Administrative Committee of Nanjing Chi-Lin Technology Innovation Park

July 2010 witnessed the foundation of Nanjing Chi-Lin Technology Innovation Park. With total planning area reaching 83km^2, 46.15km^2 has been planned for the actual construction area. Situated between Purple Mountain and Qinglong Mountain, the park is gifted with pleasant ecology, meandering and flowing here 3 ancient rivers deriving: Yunliang River, Shangba River & Baishui River. Chi-Lin takes distinctive advantages in location & traffic, surrounding by expressways and only 10 kilometers away from the center of Nanjing. It takes only 15 minutes to get to Nanjing South Railway Station. A 40 minutes' drive has well connected the park with Nanjing Lukou International Airport. Approaching Xianlin University Town in the north and connecting Jiangning University Town to the south, the park could reach 30 renowned universities including Nanjing University and Southeast University. Relying on the abundant science and education resources, Chi-Lin has obtained unlimited potential for science and technology innovation, capable to provide strong support for enterprise headquarters and R&D projects. As the core region of Nanjing Innovation renowned city, the main bearing area of comprehensive science center, and the scientific and technological innovation landmark of Jiangsu Province, by targeting on the headquarter economy and R&D as leading industries, Chi-Lin is concentrating on artificial intelligence industry and information technology industry to achieve high-end development and industries agglomeration. A number of key projects are settled in Chi-Lin, including Nanjing branch of Chinese Academy of Sciences and University of Chinese academy of sciences Nanjing. Chi-Lin, as a growing science and technology zone, has already been settled a consolidated foundation through the past 8 years and it has gradually stepped into a key stage of innovation and development. With the tide of innovation and development within Nanjing, we sincerely welcome all enterprises and talents to visit, to invest, to share opportunities and to seek common development within Chi-Lin.

Southeast University Education Foundation

Southeast University Education Foundation (SEUEF) was established in 1987 and formally registered as a charitable organization in October 2005 upon approved by Jiangsu Provincial Education Department and Civil Affairs Department. With the registration of RMB 80 million, the foundation is rated as a 5A social organization and titled as "National Advanced Social Organization" by the Department of Civil Affairs. It is qualified for deducting public welfare donations before tax.

SEUEF is committed to strengthening contacts and cooperation with alumni and community both at home and abroad, raising various social resources, serving SEU's school-running thought of "frontier technology targeted, service-oriented, student-

based and talents in priority" school-running ideas and the development strategy of "multidisciplinary integration, science, engineering, literature and medicine integration, industry-university-research integration and internationalization integration" so as to provide strong support for the construction SEU to be one of the world-class universities with distinctive national characteristics and the characteristics of Southeast University to the people's satisfaction as soon as possible.

The fund of SEUEF is mainly used to support talent cultivation, teaching and scientific researches, faculty team building and campus construction as well as all projects conducive to promoting the development of SEU's education undertaking. For the projects with specific donation purposes, the fund can be directly used for targeted purpose according to the donor's expectations.

The SEUEF will uphold the principle of openness, standardized management and availability of supervision from all parties to guarantee the use of all donations in conformity with laws, regulations and social ethics. The SEUEF is eagerly supported by alumni and community from all walks of life.

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China Railway Major Bridge (Nanjing) Bridge and Tunnel Inspect & Retrofit Co., Ltd. (CRBT) is a wholly owned subsidiary of China Railway Bridge Reconnaissance & Design Institute Co., Ltd. (BRDI), established in 2007, located in Nanjing Jiangbei New District. The predecessor was the Southeast Bridge Diagnostic Research Center jointly established by BRDI and Southeast University in 2002.

As a national high-tech enterprise and Jiangsu Provincial Bridge and Tunnel Disaster Prevention and Mitigation Engineering Research Center, The company is committed to the research and practice of structure life cycle intelligent monitoring and disaster prevention and mitigation of transportation infrastructure especially the bridges, and adheres to the integrated development model of production and research. The core technology is widely used in construction monitoring, health monitoring, maintenance management, testing and evaluation, reinforcement and modification, ship collision protection, inspection trolley, anti-corrosion dehumidification of hundreds large-scale bridges. The company actively fulfills its social responsibilities and undertakes dozens of emergency rescue tasks for bridges and tunnels, and its business area has expanded to nearly 30 provincial-level regions and overseas. The business areas include railways, highways, municipal administration, covering the entire industrial chain of bridge and tunnel operation and maintenance.

Xiamen Beifan Education Management Limited

A warm top runner in the industry

Xiamen Beifan Education Management Limited is a Pre-IPO enterprise focus on the operation management of vocational education, which is the most professional leading enterprise of domestic field. Our business scope includes vocational education, K12 education and educational technology, through direct management, co-operative construction, school-enterprise cooperation and other modes.

By the 2019, the enterprise has operated more than 20 companies mainly distributed in Fujian, Guangdong, Anhui, Jiangxi, Hunan, Yunnan, Henan. The number of enrollment students has reached 180,000, occupying the front rank in the industry.

The Beifan Ltd, offers more than 40 popular majors, such as electromechanics, computer technique, e-commerce, infant education, hotel services and so on. Especially, the advanced vehicle maintenance majors enjoy the great reputation in domestic market by the latest teaching material, courseware development capability, vehicle teaching aids and new corporation's apprenticeship management system.

Instructions for Presenters

1. Approximately 15 to 30 minutes are allocated to each speaker at plenary, invited, and technical sessions, including the time for Q&A.

2. Each presenter must report to her/his session chair at least 10 minutes before the session begins.

3. Each conference room is equipped with a computer. Presenters should carry their presentation (in PPT or PDF format) on a USB flash drive and upload it to the computer before the session begins.

4. We strongly recommend that presenters go through all their slides to ensure the presentation works well with the conference room equipment.

5. If a presenter elects to use her/his own laptop, s/he must inform the session chair and test the system before the session begins to ensure her/his own computer works well with the projector and other conference equipment.

6. Unless specified otherwise, speakers are expected to present in English.

Instructions for Session Chairs

1. Session chairs should review the program prior to their sessions to get familiar with the presentations in their sessions. To ensure a smooth progress of the conference, session chairs are required to begin and finish their sessions on time.

2. Session chairs are expected to arrive in the session room at least 10 minutes before their session begins. Please collect the attendance information of the speakers.

3. Approximately 15 to 30 minutes are allocated for each speaker at plenary, invited, or technical sessions, including the time for Q&A.

4. Session chairs should closely monitor the progress to ensure their sessions begin and finish according to the schedule.

Program at a Glance

TIME	FRIDAY, JULY 5, 2019	SATURDAY, JULY 6, 2019
Morning	Registration 10:30 – noon	Registration 7:30 – noon
		Opening Ceremony 8:30 – 9:20
		Photographing and Coffee/Tea Break 9:20 – 10:00
		Keynote Session 10:00 – 12:05
		Supply Chain Design and Optimization 8:30 – 12:30
Noon		Lunch
Afternoon	Registration 13:30 – 23:00	Government Forum for Transportation Policy 13:30 – 18:00
		Meet the Editors-in-Chief 15:50 – 17:40
	International Forum of Young Scholars 14:00 – 17:50	Infrastructure Sustainability -Academic Seminar 14:00 – 17:30
	Deans' Forum of Transportation Schools 14:00 – 17:50	Forum of Committee of Youth Scientific & Technological Professionals (CYSTP) 13:30 – 16:00
		Plenary Session 1 to 3 13:30 – 18:00
		Invited Session 1 to 8 15:50 – 18:00
		Enterprise Exhibition 13:30 – 18:00
Evening	VIP Welcome Dinner 18:30 – 20:30	Conference Banquet 19:00 – 21:00

<table>
<tr><th>TIME</th><th>SUNDAY, JULY 7, 2019</th><th>MONDAY, JULY 8, 2019</th></tr>
<tr><td rowspan="6">Morning</td><td>Plenary Session 4 to 6
8:30 – 12:00</td><td>The 10th COTA-World Bank China Transport Forum
8:30 – 12:00</td></tr>
<tr><td rowspan="2">Invited Session 9 to 18
8:30 – 12:00</td><td>Plenary Session 8
8:30 – 10:10</td></tr>
<tr><td>Invited Session 19 to 21
10:20 – 12:00</td></tr>
<tr><td rowspan="2">Enterprise Exhibition
8:30 – 18:00</td><td>Technical Session 8 to 14
8:30 – 12:00</td></tr>
<tr><td>Enterprise Exhibition
8:30 – 12:00</td></tr>
<tr><td>Noon</td><td>Lunch</td><td>Closing Ceremony & Farewell Luncheon
12:30 –14:00</td></tr>
<tr><td rowspan="6">Afternoon</td><td>Transportation Practitioner's Forum
13:30 – 18:00</td><td rowspan="6"></td></tr>
<tr><td>China- Korea Transport Forum
13:30 – 15:30</td></tr>
<tr><td>Workforce Development in Transportation Field
15:00 – 17:00</td></tr>
<tr><td>Plenary Session 7
13:30 – 15:40</td></tr>
<tr><td>Technical Session 1 to 7
15:50 – 18:00</td></tr>
<tr><td>Poster Session 1 to 4
13:30 – 17:30</td></tr>
<tr><td>Evening</td><td></td><td></td></tr>
</table>

Program 

Deans' Forum of Transportation Schools

FRIDAY, JULY 5

Chair: Dr. Jun Chen, Dean, Southeast University, China
Coordinator: Dr. Zhibin Li & Dr. Xuedong Hua, Southeast University, China

14:00-17:50
Yangtze Room / 扬子厅

TIME	PROGRAM
14:00 – 14:10	Welcome and Opening Remarks Dr. Pan Liu, Vice President, Southeast University, China
14:10 – 15:00	Invited Presentations
15:00 – 15:30	Roundtable Discussion
15:30 – 16:00	Tea/Coffee Break
16:00 - 17:30	Roundtable Discussion
17:30 - 17:50	Closing Remarks

International Forum of Young Scholars on Transportation Research

Chair: Dr. Xiaokun Wang, Associate Professor, Rensselaer Polytechnic Institute, USA
Coordinator: Dr. Zhibin Li, Professor, Southeast University, China

FRIDAY, JULY 5
14:00-17:30
303A+B

TIME	PROGRAM
14:00 – 14:10	Welcome and Opening Remarks Dr. Zhiyuan Liu, Professor, Southeast University, China
14:10 – 14:30	Dynamic Traffic Model and Dispatching Control Scheme for Urban Road Network with Ride Sharing Services Dr. Nan Zheng, Senior Lecturer, Monash University, Australia
14:30 – 14:50	A Generic Simulation Platform for Cooperative Adaptive Cruise Control Dr. Jia Hu, Professor, Tongji University, China
14:50 – 15:10	Integration of Public Transit with Emerging Mobility Systems Dr. Alireza Khani, Assistant Professor, University of Minnesota, USA
15:10 – 15:30	Cooperative Merging to Break the Roadway Capacity Limits of Platooning Systems Dr. Meng Wang, Assistant Professor, Delft University of Technology, Netherlands
15:30 – 15:50	Tea/Coffee Break
15:50 – 16:10	Temporal Change in the Driving Performance of Professional Driver Dr. Tony Sze, Assistant Professor, The Hong Kong Polytechnic University, China
16:10 – 16:30	Robust Local and String Stability for A Decentralized Car Following Control Strategy for Connected Automated Vehicles Dr. Yang Zhou, University of Wisconsin-Madison, USA
16:30 – 16:50	Spatiotemporal Modeling in Urban Transportation Dr. Lijun Sun, Assistant Professor, McGill University, Canada
16:50 – 17:10	Cooperative Adaptive Cruise Control for Connected Autonomous Vehicles by Factoring Communication-Related Constraints Dr. Siyuan Gong, Associate Professor, Chang'an University, China
17:10 - 17:30	Spatiotemporal Assessment of Pedestrian Air Pollutant Exposure at Signalized Intersection Dr. Chengcheng Xu, Associate Professor, Southeast University, China
17:30 - 17:50	High-Resolution Large-Scale Vehicle Trajectory Extraction from Unmanned Aerial Vehicle Videos Dr. Zhibin Li, Professor, Southeast University, China

Opening Ceremony

SATURDAY, JULY 6

Moderator: Dr. Pan Liu, Professor, Vice President, Southeast University, China
Coordinator: Dr. Zhiyuan Liu, Professor, Southeast University, China

8:30 –10:00
Zijin Hall / 紫金厅

TIME	PROGRAM
8:30 – 8:40	Anniversary Promotional Film for the Transportation Discipline in China
8:40 – 8:45	Dr. Wei Zuo, Secretary of CPC, Southeast University
8:45 – 8:50	Dr. Xiaoming Liu, Vice Minister, Ministry of Transport, People's Republic of China
8:50 – 8:55	Representative of Jiangsu Province Government
8:55 – 9:00	Representative of Nanjing City Government
9:00 – 9:05	Dr. Lei Zhang, CICTP2019 Conference, COTA President, University of Maryland
9:05 – 9:10	COTA-TRB Collaboration Agreement Signing Ceremony, Neil Pedersen (via Video), Transportation Research Board Executive Director
9:10 – 9:15	ASCE Partnership Appreciation, ASCE TD&I President Yinghai Wang & ASCE TD&I Director, Muhammad Amer
9:15 – 9:20	Presentation of the COTA Lifetime Achievement Award
9:20 – 10:00	Photographing and Coffee Break

Keynote Session

Chair: Dr. Lei Zhang, President of COTA, Professor, University of Maryland, USA
Coordinator: Dr. Wenbo Zhang, Assistant Professor, Southeast University, China

10:00 – 12:05
Zijin Hall / 紫金厅

TIME	PROGRAM
10:00 - 10:25	Collaborative Development of Rail Transit in Metropolitan Area Dr. Xiangsheng Chen, Member of the Chinese Academy of Engineering, Professor, Shenzhen University, China
10:25 - 10:50	The Future of the US Interstate Highway System Dr. Michael Walton, Member of the U.S. National Academy of Engineering (NAE), Professor, The University of Texas at Austin, USA
10:50 - 11:15	New Advances in Transportation Safety Research Dr. Tarek Sayed, Fellow of the Canadian Academy of Engineering, Professor, University of British Columbia, Canada
11:15 - 11:40	Connected and Autonomous Transportation: Perspectives from Small- and Medium-Sized Metropolitan Areas of the United States Dr. Kumares Sinha, Member of the U.S. National Academy of Engineering (NAE), Professor, Purdue University, USA
11:40 – 12:05	Transit Fightback: Pushback on Technology Hype for Stronger City Futures Dr. Graham Currie, Fellow of Academy of Technology Science and Engineering (ATSE), Professor, Monash University, Australia

Data Motivation • Future Intelligence

(Supply Chain Design and Optimization)

SATURDAY, JULY 6

8:30 – 12:30
Yangtze Room / 扬子厅

TIME	PROGRAM
8:00 - 8:30	Warm-up
8:30 - 8:40	Speakers Introduction by the Moderator & Opening Remarks The Ministry of Transport, China
8:40 - 9:05	Smart Supply Chain--Theoretical Study and Practice Mingke He, Vice Principal, Beijing Wuzi University, China
9:05 - 9:30	Big Data-based Supply Chain Optimization Analysis Yugang Yu, Dean, University of Science and Technology of China, China
9:30 - 9:55	Enterprise Supply Chain Emulational Decision-making Lu Qin, Associate Professor, Beijing Jiaotong University
9:55 - 10:20	Supply Chain Transformation Motivated by Interconnection and Technological Progress Huanling Pu, Former General Manager of Supply Chain, Sany Heavy Industry, China
10:20 - 10:30	Tea/Coffee Break
10:30 - 10:55	Using Supply Chain Models to Build Enterprise Core Competitiveness Ping Ding, Director of Supply Chain Solution, LLamasoft, China
10:55 - 11:20	Supply Chain Professional Capacity Model and Attempts on Building Professional Training System Zhaohe Su, Vice General Manager, Beijing Logis Technology Co., Ltd, China
11:20 - 11:40	2019 Global Supply Chain Modeling Contest Plan Release Signing Ceremony by Professional Qualification Authority, Ministry of Transport & Beijing Logis Technology Co., Ltd
11:40 - 12:20	Roundtable Discussion: Supply Chain Designing and Optimization & Technological Professionals Development
12:20 - 12:30	Closing Remarks

Government Forum for Transportation Policy

SATURDAY, JULY 6

Chair: Mr. Shaojun Shen, Professional Qualification Authority of Ministry of Transport, China
Coordinator: Dr. Xuedong Hua, Assistant Professor, Southeast University, China

13:30-18:00
Yangtze Room / 扬子厅

TIME	PROGRAM

Meet the Editors-in-Chief

Chair: Dr. Hai Yang, Professor, The Hong Kong University of Science and Technology, China
Coordinator: Dr. Chen Wang, Associate Professor, Southeast University, China

15:50-17:40
302A+B

TIME	PROGRAM
15:50 – 15:55	Opening Remarks and Introduction
15:55 – 16:10	Dr. Yafeng Yin, Editor-in-Chief of Transportation Research Part C
16:10 – 16:25	Dr. Hong Lo, Co-Editor-in-Chief of Transportmetrica B
16:25 – 16:40	Dr. Qiang Meng, Co-Editor-in-Chief of Transportation Research Part E
16:40 – 16:55	Dr. S.C. Wong, Co-Editor-in-Chief of International Journal of Sustainable Transportation
16:55 –17:10	Dr. Asad Khattak, Editor-in-Chief of Journal of Intelligent Transportation Systems
17:10 – 17:40	Q&A

Forum of Committee of Youth Scientific & Technological Professionals (CYSTP) SATURDAY, JULY 6

Chair: Dr. Chaozhong Wu, Professor, Wuhan University of Technology, China — 13:30-16:00
Coordinator: Dr. Min Yang, Professor, Southeast University, China — 210

TIME	PROGRAM
13:30 – 13:40	Welcome and Opening Remarks Dr. Pan Liu, Professor, Vice President of Southeast University, China
13:40 – 14:10	New Notion for China Transportation Association Development Dr. Chunzhi Zhang, Vice President of China Transportation Association, China
14:10 – 14:30	Work Summary and Plan of CYSTP Dr. Di Zhang, Professor, Wuhan University of Technology, China
14:30 – 15:00	Preparation for the 13th National Conference of Young Scholars in the Field of Transportation Dr. Guozhu Cheng, Professor, Northeast Forestry University, China
15:00 – 16:00	Summary and Discussion Dr. Chaozhong Wu, Director of CYSTP, Professor, Assistant President of Wuhan University of Technology, China

Infrastructure Sustainability - Academic Seminar

Chair: Mr. Chen Ling, Vice President, JSTI Group — 14:00-17:30
Coordinator: Ms. Gui Su, Planning Research Institute, JSTI Group — 203

TIME	PROGRAM
14:00 – 14:10	Welcome and Opening Remarks Mr. Chen Ling, Vice President, JSTI Group, China
14:10 – 14:40	Research and Application of New Technology of Bridge Inspection and Monitoring in China Dr. Yufeng Zhang, Vice President of Academy of Transportation Sciences, JSTI Group, China
14:40 – 15:10	Introduction of the Method of Sustainable Urban Mobility Plan Yingjie Wu, Senior Specialist of GIZ Group, China
15:10 – 15:40	Funds for Sustainable Development of Highways in China Li Xu, Zhong Lu Jiao Ke Group (Executive Dean of New Oriental Transportation Think Tank), China
15:40 – 16:00	Tea/Coffee Break
16:00 – 16:30	Current Situation and Consideration of Highway Asset Management in China. Dr. Rongji Cao, Chief Engineer, JSTI Group, China
16:30 – 17:00	Reflections on Federal Road Asset Management in the United States Dr. Jun Wang, Federal Highway Administration, USA
17:00 – 17:20	Questioning and Communication
17:20 – 17:30	Summary
17:30	END

Plenary Session 1: Innovation in Multimodal Transportation Systems

SATURDAY, JULY 6

Chair: Dr. Hong Lo, Professor, The Hong Kong University of Science and Technology, China
Coordinator: Dr. Bojian Zhou, Associate Professor, Southeast University, China

13:30-15:30
Zhongshan Ballroom / 钟山厅

TIME	PROGRAM
13:30 – 13:50	Recent Development of Stochastic User Equilibrium Models Dr. Anthony Chen, Professor, The Hong Kong Polytechnic University, China
13:50 – 14:10	Metro System Disruption Management: Initiation of Substitute Bus Services under Uncertain System Recovery Time Dr. Hong Lo, Professor, The Hong Kong University of Science and Technology, China
14:10 – 14:30	Modeling the Effects of Competition in Taxi Markets: Recent Advances Dr. Satish Ukkusuri, Professor, Purdue University, USA
14:30 – 14:50	Traffic System Performance Evaluation: A Polynomial-approximation-based BPR-x Model Dr. Xuesong Zhou, Professor, Arizona State University, USA
14:50 – 15:10	An Efficiency Paradox of Uberization Dr. Yu (Marco) Nie, Professor, Northwestern University, USA
15:10 – 15:30	Two Extensions for the Airline Fleet Assignment Problem: Models and Algorithms Dr. Zhe Liang, Professor, Tongji University, China

Plenary Session 2: Infrastructure Innovations

Chair: Dr. Bjorn Birgisson, Professor, Texas A&M University, USA
Coordinator: Dr. Qiao Dong, Professor, Southeast University, China

13:30-15:35
302A+B

TIME	PROGRAM
13:30 – 13:55	Innovation: The Key to the Highway Infrastructure of Tomorrow Dr. Charles Schwartz, Professor, University of Maryland, USA
13:55 – 14:20	Data Automation for Pavement Surface Surveys: Sensors and AI based Solutions Dr. Kelvin Wang, Professor, Oklahoma State University, USA
14:20 – 14:45	Resilience Modeling of Disrupted Urban Mobility Subjected to Hazards-From Infrastructure to System Dr. Suren Chen, Professor, Colorado State University, USA
14:45 – 15:10	Interaction and Safety of Vehicles and Their Supporting Bridge in Harsh Environments Dr. Steve C.S. Cai, Professor, Louisiana State University, USA
15:10 – 15:35	Hurricane Hazards and Traffic Congestions During Hurricane Evacuations in Florida Dr. Wenrui Huang, Professor, Florida State University, USA

Plenary Session 3: Emerging Trends in Transportation

Chair: Dr. Yu Zhang, Associate Professor, University of South Florida, USA
Coordinator: Dr. Dawei Li, Associate Professor, Southeast University, China

SATURDAY, JULY 6

15:50-18:10
Zhongshan Ballroom / 钟山厅

TIME	PROGRAM
15:50 – 16:10	Customize Machine Learning for Transportation Applications Dr. Yinhai Wang, Professor, University of Washington, USA
16:10 – 16:30	Paradigm Shift towards Smart and Healthy Cities—Systems Innovation at the Nexus of Transportation, Environment, and Public Health Dr. Huaizhu Oliver Gao, Professor, Cornell University, USA
16:30– 16:50	Applying A "Gossip-Based Algorithm" to Simulate Social Interactions in Driving Decisions Dr. Asad Khattak, Professor, University of Tennessee, USA
16:50– 17:10	A General Theory of Access Dr. David Levinson, Professor, University of Sydney, Australia
17:10 – 17:30	Emerging Trends in Microtransit and Micromobility: Benefits to Consumers, A Few Promising Directions and Many Terrible Ideas Dr. Amelia C. Regan, Professor, University of California, Irvine, USA
17:30 – 17:50	Energy-Optimized Routing with Application in Delivery Drones Dr. Ignatius Fomunung, Professor, University of Tennessee Chattanooga, USA
17:50 - 18:10	From Data to Information: Integrating Hard Data with Soft Information Dr. Yueyue Fan, Professor, University of California, Davis, USA

Invited Session 1: ITS in Practices

SATURDAY, JULY 6

15:50-17:50
303A

Chair: Dr. Guohui Zhang, Associate Professor, University of Hawai'i at Manoa, USA
Coordinator: Dr. Zhibin Li, Professor, Southeast University, China

TIME	PROGRAM
15:50 –16:10	Real-Time Movement-Based Traffic Volume Prediction for Signalized Intersections Dr. Jeff Ban, Associate Professor, University of Washington, USA
16:10 –16:30	Clustering based Online Coordinated In-Vehicle Routing Dr. LiLi Du, Associate Professor, University of Florida, USA
16:30 –16:50	Modeling Spatial and Temporal Impact of Special Events on Roadway Network Around the Activity Center Dr. Ping Yi, Professor, University of Akron, USA
16:50 –17:10	Optimal Variable Speed Limit Control at a Lane Drop Bottleneck: Tabu Search Approach Dr. Wei Fan, Professor, University of North Carolina at Charlotte, USA
17:10 –17:30	On the Impact of Prior Experiences in Car Following Models: Model Development, Computational Efficiency, Comparative Analyses and Extensive Applications Dr. Xiaobo Qu, Professor, Chalmers University of Technology, Sweden
17:30-17:50	Arterial Signal Coordination – The Cost-Effective Approach Dr. Zong Tian, Professor, University of Nevada, Reno, USA

Invited Session 2: Transport Network Modeling

15:50-17:50
303B

Chair: Dr. Jiancheng Long, Professor, Hefei University of Technology, China
Coordinator: Dr. Wenbo Zhang, Assistant Professor, Southeast University, China

TIME	PROGRAM
15:50 –16:10	A Network Flow Approach for Relocating Vehicles and Assigning Operators for Large-Scale Carsharing Systems Dr. Chi Xie, Professor, Tongji University, China
16:10 –16:30	Optimizing Online Matching for Ride-Sourcing Services with Multi-Agent Deep Reinforcement Learning Dr. Feng Xiao, Professor, Southwestern University of Finance and Economics, China
16:30 –16:50	Dynamic System Optimum Simultaneous Route and Departure Time Choice Problems: Intersection-Movement-based Formulations and Comparisons Dr. Jiancheng Long, Professor, Hefei University of Technology, China
16:50 –17:10	Trial-and-Error Operation Schemes for Bimodal Transport Systems Dr. Renyong Guo, Professor, Beihang University, China
17:10 –17:30	Integrated Optimization of Charging Facility Deployment and Vehicle Management for Electric Car-sharing Systems Dr. Yang Liu, Assistant Professor, National University of Singapore, Singapore
17:30 –17:50	Evacuating the Metro Passengers with Urban Bus System under Uncertain Disruption Recovery Time and Heterogeneous Risk-Taking Behavior Dr. Zhijia Tan, Professor, Dalian Maritime University, China

Invited Session 3: Operation and Management for Autonomous Vehicles and Smart Transportation

SATURDAY, JULY 6

15:50-17:50

201

Chair: Dr. Huizhao Tu, Professor, Tongji University, China
Coordinator: Dr. Chen Wang, Associate Professor, Southeast University, China

TIME	PROGRAM
15:50 –16:10	Transportation, Air Pollution and Human Exposure Dr. Zhongren Peng, Professor, University of Florida, USA
16:10 –16:30	CAV-Data-Driven Self-Adaptive Traffic Signal Control Dr. Heng Wei, Professor, University of Cincinnati, USA
16:30 –16:50	Safety Risk Assessment of Autonomous Vehicles Road Testing Dr. Huizhao Tu, Professor, Tongji University, China
16:50 –17:10	Violation Behavior and Resilient Traffic Flow Status Dr. Junhua Wang, Professor, Tongji University, China
17:10 –17:30	Control Design for Stable Connected Cruise Control Systems to Enhance Traffic Safety Dr. Hao Wang, Professor, Southeast University, China
17:30 –17:50	Designing Corridor Systems with Modular Vehicles Enabling En-Route Docking: Continuous and Discrete Modeling Methods Dr. Xiaopeng Li, Associate Professor, University of South Florida, USA

Invited Session 4: Traffic Safety

15:50-18:10

202

Chair: Dr. Yongjun Shen, Professor, Southeast University, China
Coordinator: Dr. Yongjun Shen, Professor, Southeast University, China

TIME	PROGRAM
15:50 –16:10	Road Safety Research: Where to Go? Dr. Helai Huang, Professor, Central South University, China
16:10 –16:30	Risk Factors Identification and Probability Prediction of Freeway Roadside Crashes Based on CHAID Decision Tree and Bayesian Network Dr. Guozhu Cheng, Professor, Northeast Forestry University, China
16:30 –16:50	Safety Evaluation of Connected Vehicle System for Human Factors Dr. Xiaohua Zhao, Professor, Beijing University of Technology, China
16:50 –17:10	Brain Computer Interfaces Dr. Jing Jin, Professor, East China University of Science and Technology, China
17:10 –17:30	Risk Analysis and Traffic Safety Improvement of Heavy Trucks driving on Long Slopes of Mountain Highways Dr. Jin Xu, Professor, Chongqing Jiaotong University, China
17:30 –17:50	Mobile Phone Use While Cycling: A Study based on the Theory of Planned Behavior Dr. Zhongxiang Feng, Professor, Hefei University of Technology, China
17:50 – 18:10	Abnormal Driving Behavior Identification and Analysis based on Naturalistic Driving Test Dr. Yongfeng Ma, Associate Professor, Southeast University, China

Invited Session 5: Intelligent & Green Highway

SATURDAY, JULY 6

Chair: Dr. Tao Ma, Professor, Southeast University, China
Coordinator: Dr. Tao Ma, Professor, Southeast University, China

15:50-17:55
206

TIME	PROGRAM
15:50 –16:15	Prediction of Skid Resistance Performance of Concrete Pavement Dr. Dawei Wang, Professor, Harbin Institute of Technology, China
16:15 –16:40	Effects of In-Place Volumetric Properties on Field Rutting and Cracking Performance of Asphalt Pavement Dr. Weiguang Zhang, Associate Professor, Southeast University, China
16:40 –17:05	Precast Smart Pavement for Smart Road Dr. Hongduo Zhao, Professor, Tongji University, China
17:05 –17:30	Implementing a Visco-Elastic-Plastic Model for Rutting Prediction Dr. Tao Ma, Professor, Southeast University, China
17:30 –17:55	The Changes of Climatic Conditions Impacting Highways in China Dr. Yinghao Miao, Associate Professor, University of Science and Technology Beijing, China

Invited Session 6: Public Transit

Chair: Dr. Lin Wang, Professor, Research Institute of Highway Ministry of Transport, China
Coordinator: Dr. Min Yang, Professor, Southeast University, China

15:50-17:50
207

TIME	PROGRAM
15:50 –16:10	System Design of eVTOL On-Demand Service for Multimodal Urban Mobility Dr. Yu Zhang, Associate Professor, University of South Florida, USA
16:10 –16:30	Bus Lane Operation and Bus Signal Priority with Connected Vehicles Dr. Wanjing Ma, Professor, Tongji University, China
16:30 –16:50	Framework and Roadmap Design of Developing MaaS in China Dr. Xianglong Liu, Associate Professor, China Academy of Transportation Science, China
16:50 –17:10	Key Technologies of Ticketing and Information Service for Intermodal Transportation of Intercity Dr. Min Yang, Professor, Southeast University, China
17:10 –17:30	Stability Identification & classification of Public Transport Commute Passengers based on Association Rules Dr. Jiancheng Weng, Associate Professor, Beijing University of Technology, China
17:30 - 17:50	Jointly Optimizing of Scheduling and Capacity in Mixed Traffic with Autonomous and Human-driven Buses: A Dynamic Programming Approach Dr. Xiaolei Ma, Associate Professor, Beihang University, China

Invited Session 7: Transport Geography and GIS

SATURDAY, JULY 6

Chair: Dr. Hu Shao, Professor, China University of Mining and Technology, China
Coordinator: Dr. Xiao Fu, Associate Professor, Southeast University, China

15:50-17:55
208

TIME	PROGRAM
15:50 –16:15	An Energy-Efficient Reliable Path Finding Algorithm for Stochastic Road Networks with Electric Vehicles Dr. Hu Shao, Professor, China University of Mining and Technology, China
16:15 –16:40	Network User Equilibrium of Battery Electric Vehicles Considering Flow-Dependent Electricity Consumption Dr. Ziqi Song, Assistant Professor, Utah State University, USA
16:40 –17:05	A Markov Process Model on Evaluating the Transit Vehicle Control Strategies Dr. Qiong Tian, Professor, Beihang University, China
17:05 –17:30	Modeling Double Time-Scale Travel Time Processes with Application to Assessing the Resilience of Transportation Systems Dr. Renxin Zhong, Associate Professor, Sun Yat-Sen University, China
17:30 –17:55	Exploring the Relationship between Urban Built Environment and the Vehicle Emission Effects of Road Pricing Policies Dr. Shaopeng Zhong, Associate Professor, Dalian University of Technology, China

Invited Session 8: Port and Waterway Engineering

Chair: Dr. Lu Zhen, Professor, Shanghai University, China
Coordinator: Dr. Sudong Xu, Professor, Southeast University, China

15:50-17:50
209

TIME	PROGRAM
15:50 –16:10	Green technology Adoption for Fleet Deployment in A Shipping Network Dr. Lu Zhen, Professor, Shanghai University, China
16:10 –16:30	Methodologies for Estimating Shipping Accident Frequency and Consequence Dr. Jinxian Weng, Professor, Shanghai Maritime University, China
16:30 –16:50	Liner shipping Service Planning under Sulfur Emission Regulations Dr. Shuaian Wang, Associate Professor, The Hong Kong Polytechnic University, China
16:50 –17:10	Risk Evaluation for Ship Navigation Security under Destructive Wind Dr. Sudong Xu, Professor, Southeast University, China
17:10 –17:30	Rapid Inventory of Ship Exhaust Emissions in Inland Waterway Transport: A Case Study for the Jiangsu Section of the Yangtze River Dr. Xuejun Feng, Professor, Hohai University, China
17:30 –17:50	Optimal Design for the Intercontinental Liner Container Shipping Service Dr. Yadong Wang, National University of Singapore, Singapore

Enterprise Exhibition

Coordinator: Dr. Fei Wang, Associate Professor, Southeast University, China

SATURDAY, JULY 6

13:30-18:00

Third Floor Hallway / 三楼走廊

Plenary Session 4: Emerging Transportation Technologies

Chair: Dr. Jizhen Guan, Secretary General, China Intelligent Transportation Systems Association, China

Coordinator: Dr. Chengcheng Xu, Associate Professor, Southeast University, China

SUNDAY, JULY 7

08:30-10:30

Yangtze Room / 扬子厅

TIME	PROGRAM
8:30 - 8:50	Road Traffic Safety Needs A Rule Enlightenment Dr. Changjun Wang, Director, Traffic Management Research Institute of the Ministry of Public Security, China
8:50 - 9:10	Transportation 5.0: Toward Parallel Transportation Intelligence and Smart Mobility in Cyber-Physical-Social Space Dr. Feiyue Wang, Professor, Chinese Academy of Sciences, China
9:10 - 9:30	The Challenge, Opportunity and Countermeasure of Urban Traffic Development in China Dr. Wei Wang, Professor, Southeast University, China
9:30 - 9:50	Strategic Goal and Realization Pathway of Strong Transportation in China Dr. Huapu Lu, Professor, Tsinghua University, China
9:50 - 10:10	Intelligent Transportation Infrastructure Dr. Yiqiu Tan, Professor, Harbin University of Technology, China
10:10 - 10:30	Multi-modal Traffic Structure Regulation Method for Integrated Network Dr. Dianhai Wang, Professor, Zhejiang University, China

Plenary Session 5: Big Data and Mobility

Chair: Dr. Jianming Ma, Texas Department of Transportation, USA
Coordinator: Dr. Dawei Li, Associate Professor, Southeast University, China

SUNDAY, JULY 7
08:30-10:30
Zhongshan Ballroom / 钟山厅

TIME	PROGRAM
8:30 - 8:50	Optimization of Multi-Type Sensor Locations for Simultaneous Estimation of Link Travel Times and Origin-Destination Demands Dr. William Lam, Professor, The Hong Kong Polytechnic University, China
8:50 - 9:10	Development Perspectives and Roadmap of An Integrated Connected Automated Vehicle Highway System Dr. Bin Ran, Professor, University of Wisconsin at Madison, USA
9:10 - 9:30	Passively Collected Big Data for Transportation Applications Dr. Lei Zhang, Professor, University of Maryland, College Park, USA
9:30 - 9:50	Naturalistic Driving Eco-Metrics and Driver Feedback Dr. Nagui Rouphail, Professor, North Carolina State University, USA
9:50 - 10:10	Active Traffic Management Strategies at Expressway Merging Sections – A Driving Simulator Study Dr. Tom Brijs, Professor, Hasselt University, Belgium
10:10 - 10:30	Integration of Probe Data and Infrastructure Based Performance Measures Dr. Darcy Bullock, Professor, Purdue University, USA

Plenary Session 6: Pavement Design

Chair: Dr. Linbing Wang, Professor, Virginia Polytechnic Institute and State University, USA
Coordinator: Dr. Tao Ma, Professor, Southeast University, China

08:30-10:10
302A+B

TIME	PROGRAM
8:30 - 8:50	Engineering Asphalt Paving Mixtures with Recycled Asphalt Shingles Dr. Baoshan Huang, Professor, University of Tennessee, USA
8:50 - 9:10	New Mechanics-Based Pavement Analysis System Dr. Bjorn Birgisson, Professor, Texas A&M University, USA
9:10 - 9:30	Integration of Experimentation Modeling and Data Analytics for MGI-based Civil Infrastructure Material Design Dr. Linbing Wang, Professor, Virginia Polytechnic Institute and State University, USA
9:30 - 9:50	Asphalt Mixture Design and Construction Practices Affecting Durability of Flexible Pavements Dr. Louay N. Mohammad, Professor, Louisiana State University, USA
9:50 - 10:10	Bio-Inspired Adaptive Transportation Infrastructure for Climate Resiliency Dr. Xiong Yu, Professor, Case Western Reserve University, USA

Invited Session 9: Bridge and Tunnel Engineering

Chair: Steve C.S. Cai, Professor, Louisiana State University, USA
Coordinator: Dr. Wen Xiong, Associate Professor, Southeast University, China

SUNDAY, JULY 7
08:30-10:00
303A+B

TIME	PROGRAM
8:30 - 8:45	Wind-Wave-Current Joint Action and its Effect on the Vehicle-bridge Coupling Vibration Dr. Yongle Li, Professor, Southwest Jiaotong University, China
8:45 - 9:00	Statistical Analysis of Three Dimensional Thermal Gradients for Wide Girders of Arch Bridge Dr. Tinghua Yi, Professor, Dalian University of Technology, China
9:00 – 9:15	Running safety analysis of high-speed train-bridge systems subjected to strong winds Dr. Xuhui He, Professor, Central South University, China
9:15 - 9:30	Nonlinear and nonstationary aerodynamic characteristics of a typical box girder under Forced Vibration Condition Dr. Lin Zhao, Professor, Tongji University, China
9:30 - 9:45	Study on Bridge Maintenance Cost under Different Axle Load Limits Dr. Lu Deng, Professor, Hunan University, China
9:45 - 10:00	Study on Flood-Induced Bridge Collapse and Its Multi-Field Coupling Simulation Dr. Wen Xiong, Associate Professor, Southeast University, China

Invited Session 10: Technology Frontiers

Chair: Dr. Heng Wei, Professor, University of Cincinnati, USA
Coordinator: Dr. Xiao Fu, Associate Professor, Southeast University, China

10:20-12:00
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TIME	PROGRAM
10:20 - 10:40	Rhythmic Control Scheme: Coordinating the Conflict Points in Road Intersections Dr. Meng Li, Associate Professor, Tsinghua University, China
10:40 - 11:00	Convergence of Social, Natural, and Engineered Systems through an Agent-based Evacuation Modeling Framework for Improved Community and Infrastructure Resilience Dr. Haizhong Wang, Associate Professor, Oregon State University, USA
11:00 - 11:20	A Q-learning-based Foresighted Approach to Ego-efficient Lane Changes of CAVs on Freeways Dr. Yibing Wang, Professor, Zhejiang University, China
11:20 - 11:40	A General Formulation for Multi-modal Dynamic Traffic Assignment Considering Multi-class Vehicles, Public Transit and Parking Dr. Sean Qian, Associate Professor, Carnegie Mellon University, USA
11:40 - 12:00	Automated Personal Transit (APT): the Business Model for Driverless Vehicles Dr. Rongfang Liu, Professor, New Jersey Institute of Technology, USA

Invited Session 11: Pavement Design

SUNDAY, JULY 7

Chair: Dr. Baoshan Huang, Professor, University of Tennessee, USA
Coordinator: Dr. Qiao Dong, Professor, Southeast University, China

10:20-12:00
302A+B

TIME	PROGRAM
10:20 - 10:40	Fracture Behavior of 2 Lift Concrete Pavement in Seasonal Frozen Area Dr. Changjun Zhou, Associate Professor, Dalian University of Technology, China
10:40 - 11:00	Application of Polymer Optical Fibers for Monitoring Cracks in Asphalt Pavement Dr. Jiupeng Zhang, Associate Professor, Chang'an University, China
11:00 - 11:20	Design Method of Durable Asphalt Pavement with Increasing Life of Structural Course Layer by Layer Dr. Songtao Lv, Professor, Changsha University of Science and Technology, China
11:20 - 11:40	Kinetics of Self-Healing of Asphalt Mixtures Dr. Xue Luo, Professor, Zhejiang University, China
11:40 - 12:00	Dynamic Response of Asphalt Pavement: from Analytical Solution to Field Monitoring Dr. Zejiao Dong, Professor, Harbin Institute of Technology, China

Invited Session 12: Connected and Automated Transportation Systems

Chair: Dr. Jian Zhang, Associate Professor, Southeast University, China
Coordinator: Dr. Chengcheng Xu, Associate Professor, Southeast University, China

10:20-12:00
202

TIME	PROGRAM
10:20 - 10:40	Swarm Intelligence for Cooperative Vehicle Infrastructure Systems Dr. Daxin Tian, Professor, Beihang University, China
10:40 - 11:00	Communication Delay Boundary Modelling for CACC String Stability Dr. Zhigang Xu, Professor, Chang'an University, China
11:00 - 11:20	Macro and Micro Traffic Flow Modeling, Simulation and Analyses under V2V Environments Dr. Liang Zheng, Associate Professor, Central South University, China
11:20 - 11:40	Driving Environment Complexity Evaluation for Autonomous Vehicles Dr. Rongjie Yu, Associate Professor, Tongji University, China
11:40 - 12:00	Experimental Study on Human Factors and Traffic Safety in Connected and Automated Vehicle Dr. Nengchao Lyu, Associate Professor, Wuhan University of Technology, China

Invited Session 13: Transportation Policy, Planning and Modeling

SUNDAY, JULY 7

Chair: Enjian Yao, Professor, Beijing Jiaotong University, China
Coordinator: Dr. Dawei Li, Associate Professor, Southeast University, China

10:20-12:00
201

TIME	PROGRAM
10:20 - 10:40	From Transit-Oriented Development to Transit-Supportive Comprehensive Development: An Exploratory Research based on Non-Traditional Data Dr. Jiangping Zhou, Associate Professor, The University of Hong Kong, China
10:40 - 11:00	Local Government's Challenges and Opportunities in New Mobility Dr. Honglong Li, Program Manager, City of Honolulu, Hawaii, USA
11:00 - 11:20	Elderly People's Travel Behaviour Analysis during the Morning Peak Hours in the Context of the Free Bus Programme Dr. Enjian Yao, Professor, Beijing Jiaotong University, China
11:20 - 11:40	Metropolitan Seattle On the Cutting Edge Dr. Shuming Yan, Manager, City of Bellevue, Washington, USA
11:40 - 12:00	An Assessment of Hong Kong's Spatial Planning in New Towns: Job Accessibility, Transport Mobility, and Intra-Household Joint Travel Dr. Ying (Sylvia) He, Associate Professor, The Chinese University of Hong Kong, China

Invited Session 14: Urban Planning and Transport Planning

Chair: Dr. Fei Yang, Professor, Southwest Jiaotong University, China
Coordinator: Dr. Min Yang, Professor, Southeast University, China

10:20-12:00
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TIME	PROGRAM
10:20 - 10:40	The Reconstruction of Theory, Practice and Logic—Rethinking A Few Traffic Problems Dr. Tao Zhou, Professor, Chongqing Transport Planning and Research Institute, China
10:40- 11:00	China Bus System of Future Planning Research and Progress Dr. Haode Liu, Professor, China Academy of Transportation Science, China
11:00 - 11:20	Theories and Methods for Transit-Oriented Multimodal Evacuation Planning Dr. Gang Ren, Professor, Southeast University, China
11:20 - 11:40	Research on Connection Transportation Organization of Urban Rail Transit Dr. Wenquan Li, Professor, Southeast University, China
11:40 - 12:00	The Emerging Territorial Spatial Planning in China and its Impacts on Transportation Planning Dr. Jian Li, Associate Professor, Tongji University, China

Invited Session 15: Smart Transportation and Data Analytics

SUNDAY, JULY 7

Chair: Dr. Xiaopeng Li, Associate Professor, University of South Florida, USA
Coordinator: Dr. Zhibin Li, Professor, Southeast University, China

10:20-12:00
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TIME	PROGRAM
10:20 - 10:40	Computational Time Geography for Urban and Transport Analysis in the Era of Big Data Dr. Biyu Chen, Professor, Wuhan University, China
10:40- 11:00	Exploring Urban Air Quality with MAPS – Mobile Air Pollution Sensing Dr. Ke Han, Associate Professor, Imperial College London, UK
11:00 - 11:20	Deep Learning Based Congestion Prediction Using Probe Trajectory Data Mr. Ken Yang, Senior System Engineer, AECOM, USA
11:20 - 11:40	Demand Forecasting and Operations Management for On-Demand Ride Services Dr. Xiqun Chen, Professor, Zhejiang University, China
11:40 - 12:00	Data-Driven Solutions to Arterial Operations Issues Dr. Yao-Jan Wu, Associate Professor, University of Arizona, USA

Invited Session 16: Transit Operation and Management

Chair: Dr. Wei Shangguan, Professor, Beijing Jiaotong University, China
Coordinator: Dr. Xu Qu, Associate Professor, Southeast University, China

10:20-12:00
208

TIME	PROGRAM
10:20 - 10:40	School Bus Operations Optimization Dr. Ali Haghani, Professor, University of Maryland, USA
10:40- 11:00	Strategic Planning of Battery Electric Bus System Dr. Cathy Liu, Assistant Professor, University of Utah, USA
11:00 - 11:20	An Investigation on Hazard of Passenger Loyalty to Customized Bus Dr. Kai Liu, Professor, Dalian University of Technology, China
11:20 - 11:40	The Hyperloop at the University of Cincinnati Dr. Shaaban Abdallah, Professor, University of Cincinnati, USA
11:40 - 12:00	Operation Optimization and Prognostic Health Management for Life-Cycle High Speed Train Control System of China Dr. Wei Shangguan, Professor, Beijing Jiaotong University, China

Invited Session 17: Infrastructure Materials and Maintenance

SUNDAY, JULY 7

Chair: Dr. Weiguang Zhang, Associate Professor, Southeast University, China
Coordinator: Dr. Weiguang Zhang, Associate Professor, Southeast University, China

10:20-12:00
303A+B

TIME	PROGRAM
10:20 - 10:40	Moisture Seepage Characteristics in Asphalt Mixture using X-Ray Imaging Technology Dr. Huining Xu, Associate Professor, Harbin University of Technology, China
10:40- 11:00	Development of High-Toughness Ultra-Thin Friction Course Dr. Jiangmiao Yu, Associate Professor, South China University of Technology, China
11:00 - 11:20	Sustainable materiALS FOR SMArt Road Dr. Xingyi Zhu, Professor, Tongji University, China
11:20 - 11:40	Towards Green Asphalt Materials with Lower VOCs Emission Dr. Yue Xiao, Associate Professor, Wuhan University of Technology, China
11:40 - 12:00	Research on Key Technology of Vehicle Bump Test for Small and Medium Span Bridges Dr. Guojin Tan, Professor, Jilin University, China

Invited Session 18: High-Speed Railway

Chair: Xianhua Chen, Professor, Southeast University, China
Coordinator: Dr. Lei Zhang, Professor, Southeast University, China

10:20-12:10
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TIME	PROGRAM
10:20 - 10:40	Intelligent Construction Technology for High-Speed Railway Subgrade Dr. Degou Cai, Associate Professor, China Academy of Railway Sciences Corporation Limited, China
10:40 - 10:55	Safety Monitoring Technology for Track Engineering of High-Speed Railway Dr. Liang Gao, Professor, Beijing Jiaotong University, China
10:55 - 11:10	Effect of Reflective Thermal Insulation Coating on Temperature Field of Ballastless Track Dr. Rongshan Yang, Professor, Southwest Jiaotong University, China
11:10 - 11:25	Research on Slab Track Irregularity and Dynamic Behavior under Frost Heave of Railway Subgrade Dr. Xiaopei Cai, Professor, Beijing Jiaotong University, China
11:25 - 11:40	Modeling and Measurement on the Vibration and Noise of Rail Transportation System Dr. Xiang Liu, Professor, Central South University, China
11:40 - 11:55	Dynamic Inspection Technology for High-Speed Railway Track Dr. Xiubo Liu, Professor, China Academy of Railway Sciences Corporation Limited, China
11:55 – 12:10	Mechanism Analysis of Post-Construction Settlement's Control Effect on Soft-Soil Subgrade for High-Speed Railway Dr. Linrong Xu, Professor, Central South University, China

Transportation Practitioner's Forum

Chair: Mr. Kyle Liang, Department of Transportation, Montgomery County, Maryland, USA
Coordinator: Dr. Xuedong Hua, Assistant Professor, Southeast University, China

SUNDAY, JULY 7
13:30-17:00
303A+B

TIME	PROGRAM
Session I	Identification, Analysis and Correction of High-Accident Locations
13:30-13:35	Opening Remark Ping Sun, Dr. Xuesong Wang, Professor, Tongji University, China
13:35-14:05	Connectivity Analysis and Suggestion for the Sub-Center and Suburban in Beijing Ms. Chuanjiao Sun, RIOH, China
14:05-14:35	Identification and Improvements of High-Crash Locations, Case Studies Wenbin Wang, Senior Civil engineer, Tongji University, China
14:35-15:05	Traffic Engineering Design and Safety Improvements, Case Studies Ms. Mina Zeng, Shanghai Ji'an Transportation Consulting Co. Ltd., China
15:05-15:35	Measuring Traffic Congestion and Improvements in Central Business District Ms. Nale Zhao / Ms. Siyuan Hao, RIOH, China
15:35-16:05	Safety Analysis and Improvements on Long Downgrade Section Mr. Xiaoyi Mi, Bejing ZJHA Technology Co. Ltd
16:05-16:20	Coffee/Tea Break
Session II	Panel Discussion: How do We Review and Improve Intersection Operations and Safety in China? – Perspectives from Inside and Outside China
16:20-17:00	Traffic Operations and Safety Improvements on Highways and Accesses Panelist: Xuesong Wang, Tongji University Wenbin Wang, Tongji University …… Kyle Liang, Montgomery Co.

Transportation Innovation Perspective from South Korea: China-Korea Transport Forum

SUNDAY, JULY 7

13:30-15:30

Yangtze Room / 扬子厅

Chair: Dr. Keechoo Choi, Chair, Metropolitan Transport Commission, South Korea & Dr. Lei Zhang, COTA President, University of Maryland, USA

Coordinator: Dr. Jian Zhang, Associate Professor, Southeast University, China

TIME	PROGRAM
13:30-15:30	Dr. Keechoo Choi, Chair, Metropolitan Transport Commission, South Korea
	Dr. Jeon Kyoseok, Ajou University, South Korea
	Dr. Sigon Kim, Profesor, President, Korean Society of Transportation, South Korea
	Dr. Taewan Kim, Korean Society of Transportation, South Korea
	Dr. Jin Chung, Korean Society of Transportation, South Korea
	Dr. Lei Zhang, COTA President, University of Maryland, USA
	Dr. Yu Zhang, Associate Professor, University of South Florida, USA
	Dr. Xiaokun Wang, Associate Professor, Rensselaer Polytechnic Institute, USA
	Dr. Heng Wei, Professor, University of Cincinnati, USA
	Dr. Inhi Kim, Senior Lecturer, Monash University, Australia

Workforce Development in Transportation Field

Chair: Dr. Yinhai Wang, Professor, University of Washington, USA
Coordinator: Dr. Chao Wang, Assisstant Professor, Southeast University, China

SUNDAY, JULY 7
15:00-17:00
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Plenary Session 7: Connected and Automated Vehicle

Chair: Dr. Jianyang Zheng, Maryland Department of Transportation, USA
Coordinator: Dr. Hao Wang, Professor, Southeast University, China

13:30-15:30
Zhongshan Ballroom
钟山厅

TIME	PROGRAM
13:30 – 13:50	IoT for Smart Roads: The Future of ITS Dr. Guoqiang Mao, Professor, University of Technology Sydney, Australia
13:50 – 14:10	A General Framework for Accelerated Testing and Evaluation of Autonomous Vehicles Dr. Henry Liu, Professor, University of Michigan, Ann Arbor, USA
14:10 – 14:30	How Large Could the Autonomous Taxi Fleets Be? Dr. Kay Axhausen, Professor, ETH Zurich, Switzerland
14:30 – 14:50	Queue Estimation and Platoon Prediction in a Connected Environment Dr. Yunlong Zhang, Professor, Texas A&M University, USA
14:50 – 15:10	Vision for a Safe and Connected Campus Community Testbed at the University of South Florida Dr. Robert Bertini, Professor, University of South Florida, USA
15:10 – 15:30	Use of Connected Vehicle Technologies for Monitoring Passenger Vehicle Emissions Dr. Scott Matthews, Professor, Carnegie Mellon University, USA

Technical Session 1: Driving Behavior and Human Factors

Chair: Dr. Zhongxiang Feng, Professor, Hefei University of Technology, China

SUNDAY, JULY 7

15:50-17:50

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TIME	PROGRAM
15:50 –16:10	Calibrating Car-following Models on Freeway Based on Naturalistic Driving Study Ping Sun, Dr. Xuesong Wang, Professor, Tongji University, China
16:10 –16:30	Analysis on the Speed Behavior of the Helix Bridge based on Naturalistic Driving Pattern Dr. Jin Xu, Professor, Chongqing Jiaotong University, China
16:30 –16:50	Research on Pedestrian Crossing Behavior in Low-Grade Highway Segments Through Towns and Villages Dr. Yongfeng Ma, Associate Professor, Southeast University, China
16:50 –17:10	Real-time Detection and Prediction of Driving Distraction with LSTM Dr. Lanfang Zhang, Associate Professor, Tongji University, China
17:10 –17:30	Prediction Accuracy Improvement of Avoidance Driving Behavior Model Based On Game Theory: Introducing Jerk To Refine Acceleration Dr. Zhao Zhang, Lecturer, Beihang University, China
17:30 – 17:50	Simulation and Analysis of Kinematic Parameters of Vehicle Offset and Rear End Accident Dr. Wenhui Zhang, Associate Professor, Northeast Forestry University, China

Technical Session 2: Public Transit

Chair: Dr. Yusheng Ci, Associate Professor, Harbin Institute of Technology, China

15:50-17:30

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TIME	PROGRAM
15:50 –16:10	Assessing the Supply Volume of Dockless Bike-Sharing Using the Time–Space Consumption Model in Ningbo, China Dr. Jibiao Zhou, Associate Professor, Ningbo University of Technology, China
16:10 –16:30	Forecasting Short-Term Entrance Passenger Flow of Urban Rail Transit Stations by the Improved Elman Neural Network Dr. Mao Ye, Associate Professor, Nanjing University of Science and Technology, China
16:30 –16:50	Short-term Passenger Flow Forecast in Urban Rail Transit Based on Enhanced K-nearest Neighbor Approach Dr. Chunyan Shuai, Associate Professor, Kunming University of Science & Technology, China
16:50 –17:10	A Study on Scale Characteristics and Influence Factors of Passenger Flow in Qinghai Lake Scenic Area Ning Kong, Beijing University of Technology, China
17:10 –17:30	Study on Length Optimization of Bus Stop Zone Haonan Jia, Chang'an University, China

Technical Session 3: Sustainable and Intelligent Transportation Systems

SUNDAY, JULY 7

Chair: Dr. Jia Yao, Associate Professor, Harbin Institute of Technology, China

15:50-17:30
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TIME	PROGRAM
15:50 –16:10	An Empirical Study on Travel Demand Spatiotemporal Patterns of Dynamic Internet based Ride-Sharing Zhiju Chen, Dalian University of Technology, China
16:10 –16:30	A Combined Prediction of Dynamic Traffic Flow Demand for Regional City Road Network Dr. Heng Ding, Associate Professor, Hefei University of Technology, China
16:30 –16:50	Urban travel time prediction based on Spatial-Temporal Graph Convolutional Networks Wei Chang, Zhejiang University, China
16:50 –17:10	Traffic States Recognition and Prediction based on Floating Car Data Yu Yuan, Southeast University, China
17:10 – 17:30	Influence of Electronic Bicycle on Mode Transition in Urban Transit Dr. Lu Bai, Southeast University, China

Technical Session 4: Traffic Operations, Control and Management

Chair: Dr. Liang Zheng, Associate Professor, Central South University, China

15:50-17:50
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TIME	PROGRAM
15:50 –16:10	Connected Vehicle Control Algorithm for All-Way-Stop-Controlled Intersections Ruochen Hao, Ph.D. Candidate, Tongji University, China
16:10 –16:30	Traffic State Identification Based on Phase Transition Mengwei Xin, Ph.D. Candidate, Harbin Institute of Technology, China
16:30 –16:50	A Stochastic Simulation-based Optimization Method for Calibrating VISSIM Simulator under Uncertainties Xinfeng Xue, Master Candidate, Central South University, Chin
16:50 –17:10	Speed Guidance Model for Electric Bus at Signalized Intersection Based on Cooperative Vehicle Infrastructure System PeiPei Mao, Master Candidate, Southeast University, China
17:10 –17:30	Distant Downstream Bottlenecks in Local Ramp Metering: Comparison of Fuzzy Self-Adaptive PID Controller and PI-ALINEA Ling Zhao, Master Candidate, Southeast University, China
17:30 –17:50	A real-time Deployable Model Predictive Control-based Cooperative Platooning Approach for Connected and Autonomous Vehicles Dr. Jian Wang, Associate Professor, Ningbo University, China

Technical Session 5: Port and Waterway Engineering

Chair: Dr. Sudong Xu, Professor, Southeast University, China

SUNDAY, JULY 7

15:50-17:30

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TIME	PROGRAM
15:50 –16:10	Simulation for Evaluating Traffic Performance of an Inland Waterway Lock Peng Liao, Southeast University*; Xin LI, Southeast University, China; Zhuang KONG, Shanghai Waterway Engineering Design and Consulting Co., Ltd; Bing NI, Anhui Transportation Research Institute, China
16:10 –16:30	Analysis of Topology and Routing Strategy of Container Shipping Network on "Maritime Silk Road" Liupeng Jiang, Hohai University, China
16:30 –16:50	Application of Regression Analysis and Time Series Models for Freight Demand Estimation and Forecast at Lianyungang Port Shuang Tang, Sudong Xu, Jianwen Gao, Mengdi Ma, Southeast University, China
16:50 –17:10	The Impact of Vessel Speed on Traffic Organization under Safety in a One-way Waterway with Multi-junction Zhenxuan Chen, Dalian University of Technology, China
17:10 –17:30	The Influence of the Hydrodynamic Conditions on Navigation near Bridge Area Yanfen Geng, Southeast University*; Xing KE, Southeast University; Wang Zhili, Nanjing Hydraulic Research Institute; Yaolu Ma, Southeast University; Xin ZHENG, Southeast University

SUNDAY, JULY 7

Poster Session 1:

13:30-14:30

Chair: Dr. Weiguang Zhang, Associate Professor, Southeast University, China

Zhonghua Exhibition Hall A / 中华厅 A

TIME	PROGRAM

Poster Session 2:

14:30-15:30

Chair: Dr. Weiguang Zhang, Associate Professor, Southeast University, China

Zhonghua Exhibition Hall A / 中华厅 A

TIME	PROGRAM

Poster Session 3:

15:30-16:30

Chair: Dr. Weiguang Zhang, Associate Professor, Southeast University, China

Zhonghua Exhibition Hall A / 中华厅 A

TIME	PROGRAM

Poster Session 4:

16:30-17:30

Chair: Dr. Weiguang Zhang, Associate Professor, Southeast University, China

Zhonghua Exhibition Hall A / 中华厅 A

TIME	PROGRAM

University Recruitment

13:30-18:00

Coordinator: Dr. Jing Hu, Assistant Professor, Southeast University, China

Zhonghua Exhibition Hall A / 中华厅 A

Enterprise Exhibition

08:30-18:00

Coordinator: Dr. Guangji Xu, Assistant Professor, Southeast University, China

Third Floor Hallway / 三楼走廊

The 10th COTA-World Bank China Transport Forum – Path toward 2025: Smart City Cluster and Low-Carbon Transport in China

MONDAY, JULY 8

08:30-12:00
Yangtze Room / 扬子厅

Chair: Mr. Jason Wang, Appalachian Regional Commission, USA
Coordinator: Dr. Jing Hu, Assistant Professor, Southeast University, China

TIME	PROGRAM
8:30 – 8:45	Remark 1 – Representative of China Transport News Remark 2 – Representative of COTA Remark 3 – World Bank Representative
	Speech Session
8:45 – 9:05	Path to 2025: WSDOT Strategic Plan Goals and Future Trends Roger Millar, Secretary of Transportation, Washington State DOT
9:05 – 9:25	Smart City from ASCE's Perspective Amer Muhammad, Director, ASCE's Transportation & Development Institute
9:25 – 9:35	Q & A
9:35 – 9:55	City Cluster Transport Development in China Chen Shidong, Institute of Comprehensive Transportation, NDRC
9:55 – 10:15	Jing-Jin-Ji Regional Transport Integration Zhang Shuai, Beijing Transport Research Institute
10:15 – 10:25	Q&A
10:25 – 10:40	Tea/Coffee Break
10:40 – 11:00	Smart Mobility for City Cluster DiDi Chuxing
11:00 – 11:30	World Bank: City Cluster, Low Carbon Transport and TransFORM Knowledge Sharing Wang Jin, Transport Specialist, World Bank
11:30 – 11:40	Q&A
	Panel Discussion: Path toward China Transport 2025 – Challenges and Opportunities
11:40 – 12:20	COTA, China Transport News, WB, Roger, Amer, Cheng Shidong, Zhang Shuai, DiDi
	Closing Remark
12:20 – 12:30	World Bank

Plenary Session 8: Multimodal Transport and Logistics Systems

Chair: Dr. Xiaoning Zhang, Professor, Tongji University, China
Coordinator: Dr. Bojian Zhou, Associate Professor, Southeast University, China

MONDAY, JULY 8
08:30-10:10
Zhongshan Ballroom / 钟山厅

TIME	PROGRAM
8:30 – 8:50	Some Research Issues in Planning and Scheduling of Urban Rail Transit Dr. Hai Yang, Professor, Hong Kong University of Science and Technology, China
8:50 – 9:10	Temporal Patterns of Driving Fatigue and Driving Performance Among Male Taxi Drivers in Hong Kong: A Driving Simulator Approach Dr. S.C. Wong, Professor, University of Hong Kong, China
9:10 – 9:30	Drone-based Humanitarian Logistics for Timely Delivery of Perishable Items Dr. Pitu Mirchandani, Professor, Arizona State University, USA
9:30 – 9:50	A Four-step Method for Electric-vehicle Charging Facility Deployment in a Dense City: An Empirical Study in Singapore Dr. Qiang Meng, Professor, National University of Singapore, Singapore
9:50 – 10:10	Freight Mode Choice and its Influencing Factors: Chief Results from a National Study in the US Dr. José Holguín-Veras, Professor, Rensselaer Polytechnic Institute, USA

Invited Session 19: Pavement Design

Chair: Dr. Bo Tian, Professor, Research Institute of Highway, Ministry of Transport, China
Coordinator: Dr. Bin Yu, Professor, Southeast University, China

08:30-10:10
209

TIME	PROGRAM
8:30 – 8:50	Design and Application of Exposed Aggregate Concrete Pavement Dr. Bo Tian, Professor, Research Institute of Highway, Ministry of Transport, China
8:50 – 9:10	Experimental Investigation of the Interface Performance Between Asphalt Pavement Layers using Four-point Shear Set-up Dr. Changfa Ai, Professor, Southwest Jiaotong University, China
9:10 – 9:30	Characterization of Ultra Violet (UV) Aging of Asphalt Dr. Huanan Yu, Professor, Changsha University of Science and Technology, China
9:30 – 9:50	Characterizing and Optimizing on the Evaluation Index Test for Fog Seal with Sand Dr. Hainian Wang, Professor, Chang'an University, China
9:50 –10:10	Study on Mechanism and Multiscale Evaluation Method of Interfacial Interaction between Asphalt Binder and Mineral Aggregate Dr. Meng Guo, Professor, Beijing University of Technology, China

Invited Session 20: Progress on Traffic Flow Theory and Driving Simulation

MONDAY, JULY 8

Chair: Dr. Hao Wang, Professor, Southeast University, China
Coordinator: Dr. Hao Wang, Professor, Southeast University, China

10:20-12:00
303A

TIME	PROGRAM
10:20 – 10:45	The Impact of Heterogeneous Driving Behavior on Traffic Flow Dr. Guangquan Lu, Professor, Beihang University, China
10:45 – 11:10	Investigation and Exploration of In-Depth Traffic Flow Simulation Model Dr. Jian Sun, Professor, Tongji University, China
11:10 – 11:35	On the Role of Speed Adaptation and Stochasticity in Traffic Instability: Evidence from Car-Following Experiments and Its Stochastic Model Dr. Rui Jiang, Professor, Beijing Jiaotong University, China
11:35 – 12:00	Analysis on the Traffic Characteristics of Specific Road Zone under the Context of Connected Vehicle: A Driving Simulation Study Dr. Xiaohua Zhao, Professor, Beijing University of Technology, China

Invited Session 21: Information Sharing Platform of Traffic Safety Research

Chair: Dr. Yan Gao, Associate Research Fellow, Traffic Management Research Institute of the Ministry of Public Security, China
Coordinator: Dr. Chengcheng Xu, Associate Professor, Southeast University, China

8:30-12:10
303B

TIME	PROGRAM
8:30 – 9:00	Hotspot Analysis of International Research on Road Traffic Safety Dr. Jian Lu, Professor, Southeast University, China
9:00 – 9:30	Which is more dangerous, external distractions or in-vehicle distractions Dr. Wei Yuan, Professor, Chang'an University, China
9:30 – 10:00	Investigation and Evaluation of Public Traffic Safety Awareness Dr, Zhongxiang Feng, Professor, Hefei University of Technology, China
10:00 – 10:10	Coffee/Tea Break
10:10 – 10:40	Multi-Dimensional Safety of Intelligent and Connected Vehicles Dr. Quan Yuan, Associate Professor, Tsinghua University, China
10:40 – 11:10	Behavior, Traffic Flow and Real time Prediction in Work Zone Dr. Junhua Wang, Professor, Tongji University, China
11:10 – 11:40	Opportunities of Intelligent Network Connection for Road Traffic Safety Liu Gan, Director, Jiangsu Kechuang Traffic Safety Industry Research Institute Co., Ltd., China
11:40 – 12:10	Urban Road Traffic Safety Analysis Dr. Pingfan Li, Associate Research Fellow, Traffic Management Research Institute of the Ministry of Public Security, China

Technical Session 8: Traffic Safety and Emergency Responses

Chair: Dr. Yanyong Guo, University of British Columbia, Canada

MONDAY, JULY 8
10:20-12:00
201

TIME	PROGRAM
10:20 –10:40	Identifying Significant Injury Severity Risk Factors in Traffic Accidents Based on the Machine Learning Methods Wei Zhang, Nanjing University of Science and Technology, China
10:40 –11:00	Research on Color Combination of Colored Pavements in Tunnels Based on Indexes of Lighting and Eye Movement Lulu Tang, Fuzhou University, China
11:00 –11:20	Is Road Safety Moving Forward in Europe between 2011-2015? Muhammad Nabeel Yasin, Southeast University, China
11:20 –11:40	Study on Accident Impact Situation Cluster Analysis Ruiyuan Liu, Chang'an University, China
11:40 –12:00	Invulnerability Reliability Evaluation Method of Urban Road Network in Emergent Evacuation System in Unexpected Disasters Hao Song and Junhua Wang, Tongji University, China

Technical Session 9: Transportation Energy, Environment and Sustainability

Chair: Dr. Yang Wang, Associate Professor, Beijing University of Technology, China

10:20-12:00
202

TIME	PROGRAM
10:20 –10:40	Comprehensive Evaluation of Eco-driving Behavior Under Three Road Conditions Based on Driving Simulator Dr. Chang Liu, Beijing University of Technology, China
10:40 –11:00	Optimization of energy efficient line vertical alignment based on multiple stop plan in rail transit Dr. Dewei Li, Beijing Jiaotong University, China
11:00 –11:20	A Traffic Signal Control Method Based on Intersection Fuel Consumption Calculation Model Dr. Xiaolin Che, Research Institute of Highway, Ministry of Transport, China
11:20 –11:40	CO Emission Rate in Relation to Road Density of Different Road Grades and Travel Time in Beijing Dr. Yuan Han, Beijing University of Technology, China
11:40 –12:00	Short-Term Traffic Flow Prediction based on Hybrid Traffic State Transition Analysis and LSTM Neural Network Dr. Weibin Zhang, Professor, Nanjing University of Science and Technology, China
12:00 –12:20	Discretization of Continuous Traffic States for Reinforcement Learning Signal Control Based on Improved SOM Clustering Dr. Gang Tao, Duolun Technology, China

Technical Session 10: Transportation Planning and Management

Chair: Dr. Yong Wang, Professor, Chongqing Jiaotong University, China

MONDAY, JULY 8
10:20-12:20
203

TIME	PROGRAM
10:20 –10:40	Prediction Model of Electric Vehicle Charging Demand in Cold Regions Considering Environmental Adaptability Dr. Xiaowei Hu, Associate Professor, Harbin Institute of Technology, China
10:40 –11:00	The influence of Travel Distance on Mode Share for Regional Trips in China Dr. Xuedong Hua, Assistant Professor, Southeast University, China
11:00 –11:20	Policy Solutions for Transportation-Related Problems in Kabul; Lessons from Major Cities of China and India Ali Danesh, Tongji University, China
11:20 –11:40	Research on Location Optimization for Bus Depots Considering Dead Kilometers: A Case Study in Xi'an, China Shuimiao He, Chang'an University, China
11:40 –12:00	Sensitivity-based Uncertainty Analysis of Transit Assignment Models Dr. Muqing Du, Associate Professor, Hohai University, China
12:00 –12:20	Green Logistics Location-Routing Problem with Eco-Packages Shouguo Peng, Chongqing Jiaotong University, China

Technical Session 11: Automated Vehicles and Intelligent Infrastructure

Chair: Dr. Wei Hao, Professor, Changsha University of Science and Technology, China
Co-Chair: Dr. Kefu Yi, Changsha University of Science and Technology, China

10:20-12:00
206

TIME	PROGRAM
10:20 –10:40	Vision-Based Vehicle Behavior Analysis: A Structured Learning Approach via Convolutional Neural Networks Luntian Mou, Haitao Xie and Yanyan Chen, Beijing University of Technology, China
10:40 –11:00	Autonomous Vehicles' Behavior Decision Making in Complex Driving Environment Using Deep Reinforcement Learning Xiao Qi, Yingjun Ye and Jian Sun, Tongji University, China
11:00 –11:20	Researching the Architecture of Intelligent Road System Yu-lin Luo, Ke-jun Long, Changsha University of Science and Technology, China
11:20 –11:40	Real-time Indoor Positioning Using Enhanced Ultra-Wideband Technology for Model Cars Benny Wijaya, Kun JIANG and Nanshan DENG, Tsinghua University, China
11:40 –12:00	Modified Car-Following Model in the Intelligent Vehicle Infrastructure Cooperative Environment Shu Gao, Chunfang Feng and Biao Li, Traffic Management Research Institute of Public Security Ministry, China

Technical Session 12: Travel Behavior and Activities

Chair: Dr. Peng Chen, University of South Florida, USA

MONDAY, JULY 8
10:20-12:20
207

TIME	PROGRAM
10:20 –10:40	Investigating the Impact of Travel Mode, Travel Duration and Personal Attributes on Commuters' Subjective Well-beings Mofeng Yang, The University of Maryland, USA
10:40 –11:00	Using Mobile Phone Data to Understand Residents' Habitual Activity Space: A Case Study in Shanghai, China Miji Tan, Tongji University, China
11:00 –11:20	Research on School Children's Activity Space on the Metro Network using Smart Card Data Yang Liu, Southeast University, China
11:20 –11:40	Resident's Travel Frequency and Its Influential Factors in Large-Scale Residential Areas on the Megacity Periphery: Case Study of Shanghai, China Kai Zhang, Tsinghua University, China
11:40 –12:00	Exploring Factors Affecting Young Travelers' Mode Choice Considering e-Hailing Service Hao Yu, The University of Hawaii, USA
12:00 –12:20	Regret-Based Travel Behavior Modeling: Evolving Methodological Perspectives Sunghoon Jang, Eindhoven University of Technology, Netherlands

Technical Session 13: Transportation Infrastructure

Chair: Dr. Wen Xiong, Associate Professor, Southeast University, China

10:20-12:00
208

TIME	PROGRAM
10:20 –10:40	Capacity Evaluation of the Lateral Loading Distribution for Hollow Beam Bridges Based on Visual Inspection Zichen Wang, Southeast University, China
10:40 –11:00	Comparative Study on Fatigue Design of Orthotropic Steel Bridge Deck Based on Different Codes Sijie Peng, Harbin Institue of Technology, China
11:00 –11:20	Empirical Analysis of Expressway Tunnel Crashes Using a Six-Zone Approach Amjad Pervez, Central South University, China
11:20 –11:40	Non-Contact Video-Based Identification for Dynamic Behaviors of Beam Structures Yu Cheng, Southeast University, China
11:40 –12:00	Study on the Computing Method of Shear Connector in Steel-Concrete Composite Beam. Kunpeng Zhao, Shandong Jiaotong College, China

Technical Session 14: Pavement Engineering

Chair: Dr. Jing Hu, Assisstant Professor, Southeast University, China

MONDAY, JULY 8

10:20-12:20

209

TIME	PROGRAM
10:20 –10:40	Study on the New Technology for Health Detection of Asphalt Pavement. Dr. Guanglai Jin, Senior Engineer, Jiangsu Sinoroad Engineering Technology Research Institute Co., Ltd, China
10:40 –11:00	Effect of Base Temperature on Early Stress Strength Ratio for Concrete Pavement. Dr. Yancong Zhang, Engineer, Key Laboratory of Road Structure & Material, Ministry of Transport, China
11:00 –11:20	Self-cleaning Performance of Double-layer Porous Asphalt Pavements with Different Granular Diameters and Layer Combinations. Dr. Gongyun Liao, Associate Professor, Southeast University, China
11:20 –11:40	Preparation and Properties of High Ductility Cementitious Composites. Ms. Shuyin Wu, Graduate student, Southeast University, China
11:40 –12:00	Effect of Surface Texture Variation on Skid Resistance of Asphalt Pavement. Mr. Hanyu Zhang, Graduate student, Southeast University, China

Enterprise Exhibition

Coordinator: Dr. Jing Hu, Assistant Professor, Southeast University, China

08:30-12:00

Third Floor Hallway / 三楼走廊

Closing Ceremony & Farewell Luncheon

Chair: Dr. Jianming Ma, COTA Vice President

Coordinator: Dr. Wenbo Zhang, Assisstant Professor, Southeast University, China

12:30-14:00

Zhongshan Ballroom/ 钟山厅

TIME	PROGRAM
12:30 – 12:35	Opening Remarks
12:35 – 12:45	Conference Summary
12:45 – 12:55	Best Paper Award
12:55 – 13:00	Best Area Editor Award
13:00 – 13:05	Other Awards
13:05 – 13:15	Handover Ceremony from the CICTP 2019 Organizers to the CICTP 2020 Organizers
13:15 – 14:00	Luncheon

Poster Sessions

Poster Session 1

Chair: Dr. Weiguang Zhang, Associate Professor, Southeast University, China

13:30-14:30
Zhonghua Exhibition Hall A / 中华厅 A

Paper ID	Paper Title
8	Research of Continuous Compaction Detection Method Based on Embedded System
10	A New Collaborative Positioning Technology for Pavement Construction Monitoring
23	Work Zone Opitimized Length Estimation for a Motorway Construction Project
27	Study on Method and Decision Making Model for Preventive Maintenance Planning of Asphalt Pavement
54	Gradation Variability of Asphalt Mixture in Construction Process
99	Research on Network Level Pavement Maintenance Decision-making Based on Matter-element Model
220	Speedy measuring technology of pavement texture depth based on high precision 3D line laser scanning
353	BIM Application Approach on Highway Reconstruction and Management
368	Traffic Risk Assessment Model for Expressway Maintenance Work Zones Based on Risk Index
370	The Research of freeway composite card allocation problem based on improved genetic algorithm
456	Estimation of the most unfavorable condition of freeze-thaw cycle subgrade
661	Self-cleaning performance of double-layer porous asphalt pavements with different granular diameters and layer combinations
701	The effects of indenter size used in repeated loading test on permanent deformation behavior of asphalt mixture
832	A study of provincially regional tourist highway plan based on the analysis of the local tourist resources
840	The Blocking Effect of Sound Barrier on Road Noise under Road Expansion Conditions
868	A Novel Method to Measure Pavement Roughness Using Android-based Smartphone Application
869	Risk Assessment Index System for Soil-similar Slopes and Application in Highway Engineering
876	Research on evaluation index system and assessment method of tourist highway route
899	Grey related degree model for the optimization of tourist highway route
943	Investigating the Effect of Corrective Maintenance on the Pavement Life Cycle and the Optimal Maintenance Strategies
957	Study on Optimization and Simulation Evaluation of Traffic signs for Expressway complicated interworking
1173	A Laboratory Study on Rutting Resistance Performance of High Modulus Asphalt Mixture
1380	Optimized Strategy Design for Network-Level Transportation Infrastructure Asset Management
12	Effect of curing methods on early crack for joint concrete pavement
46	Modeling the Raveling Propagation in Hot and Dry Climate by Using the Statistical Analysis Concepts
48	Temperature Scanning Test by Dynamic Shear Rheometer for Emulsified Bio-binder
55	Discrete Element Modeling of Aggregate Gradation Influence on the High Temperature Stability of Structural-Layer Asphalt Mixtures
88	Dynamic response of roller-compacted concrete-base asphalt pavement
137	Influence of Aggregate on Mechanical Behavior of Interfacial Transition Zone in Asphalt Mixture
181	Study on Applicability of Physiological Method for Evaluating Pavement Roughness
189	Micromechanical response of asphalt mixture during field compaction using discrete element method

195	Modeling the Linear Viscoelastic Behavior of Asphalt Concrete via Optimization Method
196	Performance Evaluation of SBS+CR Composite Modified Asphalt Binder and Mixture for Railway Substructure
232	Development of A Portable Pavement Surface Macrotexture Measurement System Applied in China
245	Lateral Permeability of Open-Graded Asphalt Mixture
268	Study on purification effect evaluations of filter media to pavement runoff pollution
272	Electrical and Mechanical Properties of Self-sensing Carbon Black SHCC
316	A Verification Method and Its Criterion of Shear Strength in Porous Asphalt Pavement
343	Properties of Poro-elastic road surface with different compositions
444	Analysis of flexural fatigue failure and degradation reliability of cement concrete for highway pavements
449	Electrical Conductivity and Rheological Properties of Asphalt Binder Containing Graphite
451	Influence of Low Atmospheric Pressure on Air Content and Air Void Structures of Air-Entrained Concrete
457	Effect of Low-Pressure of Environment on Air Content and Bubble Stability of Concrete
502	High and Low Temperature Performance of SBS/Crumb Rubber/Chemically Composite Modified Asphalt Concrete (SBS/CR/C)
531	Rejuvenating Mechanism of Aged Asphalt with Bio-Rejuvenator from Micro Aspect
690	Evaluation of Mechanical Properties of Concert Under High Thermal Loading
785	Overview of design of ultra-thin wear layer and evaluation of road performance
940	Allowable rutting depth based on residual stress state near the rutting
951	Long-term Field Transverse Cracking Performance of Asphalt Pavement Constructed with Semi-Rigid Base
976	Grey Correlation Analysis of Bio-oil Rejuvenated Asphalt Performance and Components
977	Study on Transverse Profile Shapes of Rutting on Asphalt Pavement Using LTPP Data
1026	Study of Bond Performance of the Road Modified Asphalt Using Pull-off Test
1063	Research on Intelligent Recognition Method of Pavement Crack Based on Combination of Spatial and Frequency Domain Enhancement Technologies
1147	Modification of Asphalt Rubber with Nanoclay towards Enhanced Storage Stability
1223	Evaluation on the high temperature performance indices of SBS modified asphalt
1225	Feasibility of vacuum decompression capillary method for measuring the dynamic viscosity at 60°C of SBS modified asphalt
1226	Effect of SBS modifier dosage on the properties of SBS modified asphalt and its FTIR characterization
1229	High precision detection of SBS modifier content based on split band and three dimensional infrared spectroscopy analysis
1239	Study on the Development Law of Transverse Cracks in Asphalt Pavement With Semi-Rigid Base
1257	Study on Composite Geosynthetics-reinforced Method of Soft Soil Subgrade
1277	Effect of Base Temperature on Early Stress Strength Ratio for Concrete Pavement
1303	Effects of Reclaimed Asphalt Pavement Contents on Construction Characteristics of Asphalt Mixtures
1327	Preparation and Properties of High Ductility Cementitious Composites
1346	Rejuvenating Mechanism of Aged Asphalt with Bio-Rejuvenator from Micro Aspect
22	A Study on the game pricing optimization of high speed train and aviation in the transport market
56	CROWD RISK ASSESSMENT OF METRO STATIONS USING SMART CARD DATA
145	Study on the Optimization of Traffic Organization in Railway Passenger Transport Terminals

271	Research on Train Operation Plan Optimization of High Speed Railway Network Based on Station Accessibility
289	Research on the Standard System of High Speed Maglev Transportation Technology
290	Analysis of Dynamic Response of the Large Span Continuous Beam Bridge in Urban Rail Transit and Train Operation
297	Research on Optimization of Locomotive Assignment based on Two-Stage Adjustment for Shoulder-Circuit Routing
346	Intelligent Video Surveillance and Early Alarms Method for Railway Tunnel Collapse
425	EFFECT OF SHIFT WORKE SYSTEM ON CIRCADIAN RHYTHM OF RAIL TRANSIT DRIVER
454	FUNCTION ORIENTATION OF REGIONAL RAIL TRANSIT IN DIFFERENT URBAN DEVELOPMENT PATTERN
565	Profit-oriented Railway Passenger Transportation Scheduling: An Integration Model of Line Planning and Ticket Allocation
579	Study on the Structure of Rail Rapid Transit Trunk Line Oriented to the Development Mode of Compact Urban Agglomeration
582	Wind speed forecasting along high-speed railway based on WDD, EWT, ARMA and SVR
635	Circuity in a high-speed rail network: a case study in China
643	Logit-based itinerary choice and advance ticket booking for high-speed-railway network services with elastic demand
652	Concrete-filled rectangle hollow section tubes for bridge pier construction
688	Optimizing Train Operational Plan In An Urban Rail Corridor With Two Terminal Yards
709	Development of Structure Light Sensor based Maglev Track Inspection System
727	Analysis of the Influence Mechanism of High-speed Railway on Employment in Underdeveloped Areas along the Line
750	The Forecasting of Train Occupancy Rate on High-speed Railway Based on Long Short-term Memory
806	Urban Rail Transit Hourly Ridership Evolution Model under Rainfall Weather
808	Fault diagnosis network design for vehicle on-board equipments of urban rail transit based on deep learning approach
812	Study on the Influence of Beijing-Shanghai High-speed Railway on Urban Spatial Interaction in Jiangsu Province
829	Fault Prediction of Metro Door System Based on Bayesian Network
870	The application of asphalt waterproofing layer in China high-speed railway track: a review
872	Study on the distribution of railway passengers' arrival time in advance
874	Research on the Passenger Flow Forecast of Interurban Railway of Central Henan urban Agglomeration in the Future
916	Research on Adjustment Strategy of Urban Rail Transit Based on Driving Intervals
921	China's high speed going-out under the B&R Initiative: rail Risk and Protection
929	Optimizing High-Speed Railway Operation Plan based on the Train Capacity and Service Frequency
962	Research on Highway Traffic Flow Prediction Method Based on Kalman Filter
978	A Method of Traffic State Estimation for Freeway
979	Ticket Price Sensitivity of Airport Rail Link——A Case Study of Changsha Maglev Express
983	Selection method of the access in the joint of suburban highway
991	Safety life analysis of high speed maglev running mechanism parts based on strength degradation
1032	Research on the influence of high-speed railway on traffic development of small and medium-sized cities along the route
1084	A Comprehensive Review on Train Positioning Technique in Industries with Maglev Included Based on Cross Coding Inductive Loop Wire
1087	Distribution Situation and Developing Tendency Analysis of Communication Based Train Control Related Patents during Recent 20 Years
1153	Research on Auxiliary Power Supply System of High-speed Train Using Bayesian Network
1204	A global optimization method of pricing and seat allocation for passenger railway system

1217	Passenger travel identification of rail transit based on WiFi information
1232	A global optimization method for suspension parameters of high-speed vehicle based on RBF surrogate model
1269	Analysis Method for Passenger Flow Characteristics of Urban Rail Transit under Emergent Events Based on AFC Data
1280	Study on the necessity of reconstruction and speed up of baotou-huinong section of Baotou-Lanzhou railway
1292	High-speed rail network Circuity in China
1296	Research on Early Warning Method of ZPW-2000A Joint-less Track Circuit Based on historical data
1344	Suburban highway entrances spacing optimization research
1347	Optimizing layout of suburban highway accesses based on network microcirculation
1349	Safety evaluation of access of suburban highways
71	Can Special Traffic Engineering Design Improve The Safety Of Off-Ramp Areas With Poor Visibility – A Study Based On Driving Simulator
74	Design Criteria for Clothoid Curve of Expressway Reconstruction Based on Driving Simulation
124	Operation analysis of symmetric continuous flow intersections
131	Optimization of Curve design for Mountain Roads Based on a Vehicle-Road Coordination Model
221	Influence of Longitudinal Gradient of Highway Superelevation Transition Section on Road Surface Runoff
231	Feasibility study on reducing turning radius of Urban Road intersection
285	Optimization Method of Superelevation Transition for Oval Racing Track
439	Comparison on Main Parameters of Highway Geometric Design between China and Foreign Countries
520	A New Method of Modern Road Surveying and Safety Auditing
822	Research on the Calculation Method of Terminal Curbside Length
850	Research on Urban Expressway Lane Width Based on Driving Simulator
944	Relationship Between Driving Behavior and Geometric Alignment Characteristics on Loop Ramps Based on Drone Videos
963	Effect of Combined Horizontal and Vertical Curve on Vehicle Longitudinal Acceleration of Mountainous Freeway
1040	Impacts on the Highway Geometric Design: Non-Autonomous to Autonomous Trucks
1101	Research on Setting Method of Guide Line of Separate Dual-Left Turn Lanes
1176	Review and Outlook of Design Consistency Measures
1187	Speed Prediction Model of passenger cars for Curve Sections on the urban road
96	Thermal Effects in Prestressed Concrete Cable-Stayed Bridge during Replacement of Closure Segment
97	Shear Behavior of Prestressed Concrete Box Girders with Corrugated Steel Webs: An Overview
98	Analysis on the Long-term Deflection in Prestressed Concrete Continuous Rigid Frame Box Girder Bridge
236	Seismic capacity estimate of RC columns considering different sources of uncertainties
240	Study on the Computing Method of Shear Connector in Steel-concrete Composite Beam
286	Finite element analysis of interfacial normal stress in concrete-filled rectangle hollow section under concentric load
384	The application of PLAXIS software in deformation analysis of Shanghai maglev line due to nearby foundation pit excavation.
395	Design Innovation and Study on Pot Bearings for Highway Bridges Convenient for Maintenance
651	Capacity Evaluation of Lateral Loading Distribution for Hollow Beam Bridges Based on Visual Inspection
718	Research on temperature field and temperature effect of midium-low speed maglev guideway girder
892	Numerical analysis on RC beams strengthened by steel plate-MPC composite technique

920	Research on Assembly Deviation of the Top Slab of Orthotropic Steel Bridge Deck Structure
1023	Effectiveness of a pergola pre-tunnel structure on light environment and driver's adaptation
1300	Study on shear bond behavior of PUFA-to-Concrete Interface
31	Far Lead Mid-block Actuated Pedestrian Crossing Signal Control System Design
109	Recognition of Vehicle Abnormal Behaviors Using Combined Features
111	Price and wage setting in the ride-sharing service with fixed-commission contract: a steady state method
112	Indentifying the influencing factors of campus bike-sharing usage and its implications
125	Bike-and-ride service location design and pricing for profit maximization in a linear monocentric city
135	Dynamic Pricing Scheme for Demand Balancing of One-way Carsharing System
141	A Mixed Equilibrium Model for EVs Promotion: to Subsidize Vehicles or Charging Infrastructure?
149	A Lane-level Vehicle Positioning Method Based on Fusion of MM and RSSI-DR for Vanet Environment
158	Effects of DSRC-Based Safety Messages on Heterogeneous Traffic Flow Stability
170	Learn to Be Observant: Large-scale Transportation Network Forecast under Special Event Conditions based on Residual Attention Network
186	Prediction of Distribution of Traffic Congestion on High Traffic Density Region Based on Deep Learning
228	Sensing Vehicle Selection Scheme Based on Road Importance in Vehicular Crowdsensing
257	Comparative analysis of several area detection methods of vehicle front windshield
327	Day-to-day dynamics with advanced traveler information
341	Analyzing of Impact Factors of Residents' Choice of Autonomous Vehicle: A Network Questionnaire Survey in Nanchang, China
342	A Real-Time Car-Following Data Collecting Method Based on Binocular Stereo Vision
344	Research on Transportation Mode Split Based on Random Forest
385	Driver Status Recognition Based on Multiple Facial Features of Landmarks
388	A Deep Convolution Neural Network for Pedestrian Detection based on HOG Feature of Image
398	Learning Based Square Root Unscented Kalman Filter for Indoor Vehicle Positioning
407	Vehicle retrieval using features of vehicle front windshield
430	Planning wireless charging facilities for electric vehicles: Optimal location and pricing strategy
434	Effect of Automated Driving in Road Network Environment
466	Control strategy of Self-driving vehicle based on Time-Division Multiplexing
481	Vehicle Trajectory Reconstruction Based on Tensor Decomposition Algorithm
487	Research and Simulation on Cooperative Adaptive Cruise Control Vehicles Based on PTV VISSIM
581	Evaluation of the effect of cooperative systems on driver behavior under fog conditions
584	An Urban Topological Map Generation Method for Traffic Flow Prediction Based on Road Segment Clustering with Floating Vehicle Trajectory Dataset
606	Highway Traffic Volume Prediction Based on Xgboost and LightGBM Models
629	Vehicle Decision Model in Virtual Traffic Scene
658	Generative Adversarial Nets based Real-time High-Resolution Volume Prediction
687	Analysis of Malicious Information Propagation on a platoon of connected vehicles

704	Sustainable and Intelligent Transportation Systems
706	An Innovative Business Model on the Integration of MaaS and Consuming Service in China
757	Trajectories prediction of vehicles at the intersection based on LSTM neural network
776	Mode Shift from Car to Sharing Bike: A Travel-Mode Choice Model Considering Sharing Bike and Private Bike as Two Modes
784	Real-time induction model of electric vehicle based on group intelligence data
799	Short-term Traffic Flow Prediction: A Long Short-Term Memory Model Enhanced by Temporal Information
863	Intelligent Traffic Light Control Based on Image Analysis
900	Location of Electric Vehicle Charging Stations with Elastic Demands and Path Distance Constraints
922	Prediction model for short-term traffic flow based on SDAE-DBN hybrid deep learning
973	Visibility estimation using roadside cameras: a calibration-based method
994	A classification method of 'Mobility as a Service' based on clustering analysis
1012	Analysis on Factors Influencing Potential Usage of Free-Floating Bike Sharing Based on Structural Equation Modelling
1025	A real-time signal control method for pedestrian crossing considering different time periods
1065	Key Fundamentals and Evaluation of a Thriving MaaS Ecosystem in China
1104	Research and Comparison of Several Vehicle Detection Methods in Urban Traffic Scenes
1124	Research on Traffic Flow Characteristics under the Condition of Speed Limit in the Bottleneck of Expressway Based on Cellular Automata
1125	Short term traffic flow prediction based on deep learning
1142	Short-Term Traffic State Prediction Based on Support Vector Machine
1172	Influence of Big Data and New Technology on Traditional Transportation Development Mode: Research in Guangzhou as an Example
1291	A Model of Injury Severity Prediction in Traffic Accident Based on GA-BP Neural Network
1329	Public Transit Mode Selection for An Urban New District Corridor
1343	Deep Learning in Transportation Research: A Preliminary Overview
1367	Research on the travel cost model of SVs and TVs under three traffic conditions
239	Study on Oversized Precast Pile Construction in Soft Soil Foundation Pit
300	Numerical simulation and optimization of ventilation mode of underground garage in Jinan Ginza shopping plaza
351	A Simulation Analysis of Subway Passengers' Per Capita Boarding and Alighting Time's Influence Rule Based on CA
551	Research on Optimization Design of Underground Interchange Ramp Radius Based on Driving Simulation
614	Subsidence Characteristics of Shield Tunneling Underneath Airport Pavement in Composite Strata
668	Analyzing passenger boarding and alighting dynamic characteristics in urban metro stations
684	Differentiated passenger flow guidance with the predictive congestion information in urban rail transit network
804	The Analysis and Optimization of Evacuation Capacity in Rail Transit Station
848	Comprehensive Evaluation Model of Urban Rail Transit Network Nodes Importance
885	Optimization of Bottleneck Facilities in Subway Stations Based on WiFi Data
902	Research on LCC Model of Urban Rail Transit Signal System based on RAMS
956	Co-presence in Beijing Urban Rail Transit——a case study on line 5
1107	Study on passenger traffic organization method of urban rail transit interchange hub

1122	Total cost calculation method for operation phase of urban rail transit system coupled with safety, performance and environment
1177	Research on the Setting of Guide Signs in the Public Transfer Zone of Large-scale Railway Integrated Passenger Transportation Hubs
1357	Research on Improved AHP of Urban Rail Transit Signal System Based on RAMS
1375	Study on the Influence Mechanism of Underground Space in Accessibility and Diversity of Station Area——Taking Shapingba Station as an Example
26	Research on Development Methods of Service Quality Evaluation System of Highway Network
52	Research on Service Quality Evaluation and Investment decision system of Rural Roads
69	Utility Evaluation of Intersection Area of Highway and Urban Road Traffic Guide Sign based on Driving Simulation Experiment
160	Research on Stain Detection method of Traffic Sign Based on Shape Template Matching
165	The Impact of transportation infrastructure and global urbanization on economic development
172	Multi-scale 3D display of the internal quality of the pavement based on BIM
199	Improving the quality of pavement performance data in pavement management system
552	Parking Demand Analysis and Optimized Scheme of Comprehensive Hospitals
713	Framework of a 3D GIS Based Airport Pavement Management System
1004	Multiobjective trade-off analysis for transportation investment decision-making considering project portfolio risks
1243	A Review of the Research Methods on Vulnerability of Transportation System
1245	Layout Study of the Variable Message Signs on Urban Road Networks
1368	Pavement Cracking Detection and Classification Based on Depth Image Using Multi-scale Clustering Model
6	A Study about Ridesourcing Travelling Choice Model for Beijing Central City
34	Ground penetrating radar numerical modeling for disease detection using COMSOL
85	Construction of highway concrete traffic barriers using copper tailing and tire derived aggregates
694	Research on the Flow Characteristics of Diesel Engine with Helical Intake Port Based on XFlow
830	Theoretical and numerical simulation research on reasonable spacing of bearing plate of pressure dispersed anchor cable
996	Shenzhen Port Competitiveness Evaluation Based on the Construction of the Guangdong-Hong Kong-Macao Greater Bay Area
1068	Influence of Typhoon Induced Siltation on Waterway Transportation in Navigation Channel of Guan River Estuary
1384	Sensitivity Analysis of Physical Parameters of Asphalt Pavement in Ultrasonic Testing Based on Finite Element Simulation

Poster Session 2

14:30-15:30

Chair: Dr. Weiguang Zhang, Associate Professor, Southeast University, China

Zhonghua Exhibition Hall A/ 中华厅 A

Paper ID	Paper Title
78	Simulation of Vessel Traffic Flow in Inland Waterway Based on Cellular Automata
82	Simulation Model for Estimating Water Area of Inland Waterway Service Area
134	A stochastic programming approach for uncertain unidirectional quay crane scheduling problem
213	Research on Air Traffic Flow Management Strategies Based on Reinforcement Learning
284	Research and Analysis of International Shipping Market Freight Index
359	A novel airspace safety assessment method based on conflict probability model

459	A visualized schedule analysis for seawall closure gap using BIM technology: A case study from Yangtze estuary
547	Study of Risk Evaluatcion for Ship Navigation Security on Qiongzhou Strait in Hainan Province under Destructive Wind
549	Research on Structural Characteristics of Homogeneity Development of Multi-Airport in Yangtze River Delta Region
637	Research on Spatial Structure of Aviation Logistics Network in Jiangsu-Zhejiang-Shanghai Based on SNA
695	Container Terminal Logistics Computing Engine Farm Micro-Architecture
743	Pot Sustainability Evaluation Based on Cloud-Matter Element Model
823	Modeling the Behavior of Pedestrians in a Group at Signalized Intersections
833	Economic Risk Analysis Based on Deep Sea Platform Construction
865	A Method of Assessing the Impact of Convective Weather on a Departure Route
912	Aircraft Trajectory Prediction Using Deep Long Short-Term Memory Networks
1018	An Optimization Method for Strategy Flight Schedule to Reduce Delays
1045	The Impact of Speed Heterogeneity on Contingent Flow Control in 4D En-route Operation
1060	Network Flow Dynamics Modeling and Analysis of Arrival Traffic in Terminal Airspace
1076	Study on the competition between aviation and high-speed rail based on mobile signaling data
1126	Modeling and Heuristic Algorithm of Ground Ferry Vehicle Scheduling for Large Scale Airports
1184	Calibrating The Stochastic Fundamental Diagram For First-order Freeway Traffic Flow Models
1227	A statistical study of the weather and propagation impact on departure punctuality at Guangzhou Airport
1322	STATISITICAL MODEL FOR FLIGHT DEPARTURE DELAY AT SHANGHAI PUDONG INTERNATIONAL AIRPORT
1352	Traffic Control Strategy for Expressway under Foggy Weather
7	Finite Mixture Models for Vehicle Headway in Port Roads
14	Analysis of Pedestrian-Crossing Speed Characteristics at Traffic Intersections
16	A Method for Driving Distraction Detection Based on OLS-RBF Neural Network Model
28	Modeling Individualized Travel Time With a Back Propagation Neural Network
61	Factors Influencing Parking Behaviors in Bike-sharing: An Empirical Study in Beijing
101	Analysis of Novice and Expert Drivers Behavior under Different Risk Levels Scenarios
127	A Quantitative Evaluation Strategy of Anthropomorphic Degree of Self-driving Vehicle Based on Subjective Feeling and Artificial Neural Network
182	Rapidly Driving Pattern Recognition Based on Rear-End Collision Risk
192	Assessment Model on Cyclists' Road Behaviors in University of China: A Case of Simplified Cycling Behavior Questionnaire
203	Questionnaire Design and Test of its Reliability and Validity for Distracted Driving Behavior
204	Utilizing Random Forest and Neural Network to Extract Lane Change Events on Shanghai Highway
211	Reinforcement Learning with MPC for Personalized Longitudinal Control in Autonomous Driving
212	Correlation between vigilance level and driving performance: influence of the driving duration and circadian rhythm
225	A Study of How Drivers' Subjective Workload and Driving Performance Change under Varying Levels of Automation and Critical Situations
255	Investigating Effects of Temporal and Locational Factors on Traffic Violations of Taxi Drivers: Data from Off-Site Enforcement Camera System
270	A Data-based Approach to Path Following Controller Design for Autonomous Vehicles
329	Research on the health management system of operating vehicle drivers

358	A New Algorithm Based on Cascaded Convolutional Neural Network for Driver Fatigue Detection
364	Exploring Factors Affecting E-Bike Riders' Red-light Running Behaviors at Signalized Intersections in China
369	Design of Real-time Monitoring System for Physiological Status of Metro Train Drivers
375	Study on the Threshold Values of the Slow Traffic in the Old City Zone
390	The Driver Model With The Consideration of Driving Skill
437	Behavior of Speed Choice Based on the Prospect Theory
443	Correlation Analysis of Traffic Conflicts and Driving Behaviors in Interchange Diverging Areas
490	Research on Cruising Mode for Curb Parking
507	Modeling the Impacts of Emotional Intelligence for Female Drivers with Poor Sense of Direction using Dimensional Theory
580	Research on Vehicle Lane Changing Demand and Condition Based on Velocity Difference and Headway
583	Research on the Service Level of the Departure Curbside Based on Pedestrian
598	A Low-cost Deep Learning-based Driver and Passenger Activity Detection System: Case Study of Naturalistic Driving Data
604	Driving risk research under dangerous conditions based on driver characteristics
626	Traffic Flow Characteristics of Ramp Merging Bottleneck on Urban Expressway
628	Gaze Characteristics of Drivers in Curved Sections
641	Influence of Sidewall Color of Highway Long Tunnel on Driving Safety
653	Study on Lighting Optimization of Tunnel Entrance Section Based on Driver's Visual Adaptation Model
673	Car-following Model of Turning at The Intersection and Its Stability Analysis
682	Active traffic management strategies at expressway merging sections – A driving simulator study.
699	Analysis and Modeling of Pedestrian Crossing Behavior at Intersections
724	Analysis of Factors Affecting Horizontal Distribution of Vehicles in Road Sections
746	Driving behavior characteristics based on psychological field effect
756	Study on the cognitive ability of novice drivers under lateral interference scenes
777	Study on Individual Differences of Driver's Eye Movement Characteristics under Simulated Driving Environment
779	Study on Individual Differences of Driver's Eye Movement Characteristics under Simulated Driving Environment
786	Lane Change Data Extraction from Naturalistic Driving Data: An Automatic Method
803	Estimates of Driver's Reaction Time in Car-Following Simulation
818	Driver's Auditory Reaction Characteristics in Lane Change Behavior on Urban Expressway Based on Simulated Driving Experiment
820	Drivers Fatigue Behavior Detection Model of Urban Rail Transit on Recurrent Neural Network
847	What factors influence drivers' choice of deceleration mode? Analysis of naturalistic driving data
852	Prediction Accuracy Improvement of Avoidance Driving Behavior Model Based On Game Theory: Introducing Jerk To Refine Acceleration
854	User Preferences Regarding Ridesourcing and Informal Intermediate Public Transport
871	Impact of risk attitude and risk perceptual conditioning on the driving decision making among young driver
888	Research on speed optimization strategy of hybrid electric vehicle based on driver's driving style
890	A Review of Automotive Head-up Display
909	Unified Modeling and Analysis of Car Following and Lane Changing Behavior Under the Intelligent Network Connected Association

941	Driving Performance of Heavy-Duty Truck Drivers under Different Fatigue Levels at Signalized Intersections
954	Driving Behaviour at Merge/Diverge Sections on Urban Express Road
967	Traveling Mode Choice Model under Bounded Rationality
975	Analysis of Human Factors and Case Studies in Subway Operation Accidents
980	Intelligent monitoring and early warning system based on driver's physiological data
1034	Exploring the Influence of Traffic Enforcement on Speeding Behavior on Low-speed Limit Road
1067	Multi-Channel Resource Demand Structure Model of Subway Traffic Dispatch based-on the Task-Network Description Method
1083	Parameters Calibration of Microscopic Traffic Simulation Model Based on Improved Genetic Algorithm
1091	Driving Style Recognition using Collision Surrogate Measurements and Vehicle Trajectory Data
1092	Driver's Lane Change Behavior Prediction Based on Deep Learning
1094	Drunk Driving Detection Based on Deep Learning
1154	Traffic Safety for E-bike Riders in China: Attitudes, Risk Perception, Confidence and Risky Riding Behaviors
1160	Modeling of charging station choice among EV drivers based on prospect theory
1181	Safety Improvement of Children' Night Crossing Based on Drivers' Visual Illusion
1194	The Method of Analysis and Calculation of the Influence Degree of the Heavy Vehicle on the Driver in the Rear Vehicle
1213	Assessing of Driver Fatigue Level based on Facial Feature Detection
1236	Support Vector Machines for the identification of real-time driver distraction using in-vehicle information systems
1246	sensitive analysis of steering related measurement to fatigue driving
1254	Poincaré plot indices of heart rate variability for monitoring driving fatigue
1259	Research on Drivers' Response to Red Light at Countdown-Signalized Intersection
1278	Effects of Countdown Signals on Driving Behaviors at Signalized Intersections
1308	An Analysis of Travel Patterns and Charging Behaviors of Battery Energy Vehicles Owners Using Real-World Data
1341	Car-following Characteristics Research on Curved Road Based on Vehicle-to-Vehicle Communication
1369	Exploring Driver's Behavior on Highway in Virtual Reality Environment
1374	The Analysis of Perception and Response Characteristics of Typical Intersection Conflicts in Driving Distraction
17	An express mode of urban bus systems
18	A Dynamic Bayesian Model for Bus Travel Time Prediction
24	Research on Planning and Design Guidelines for Bus Stations
25	Station Optimization at Bus Rapid Transit Based on Passenger Benefits-Taking Jinan as an example
33	Prediction of Public Transit Passenger Volume of Beijing Based on Gray Neural Network
57	Optimization of Public Transportation Network after Adding BRT Route -Case Study: Lanzhou, China
76	Research on Bus Line Network Optimization Method Based on Mobile Data
93	WHO WILL USE SHARED BICYCLES AND WHY? AN EXPLORATORY STUDY IN SHANGHAI CHINA
115	Travel time of buses based on GPS trajectory data: Analysis and prediction
119	Crowd evacuation analysis and modeling of rail transit hub stations based on a simulation method
120	Understanding the Nature of Pedestrian Flow: A Review on Research Modeling

126	Adaptability analysis of combined operation system of fast and slow train to Shanghai rail transit
128	Increasing the Capacity of Signalized Intersections with dedicated bus lane
133	Understanding the Relationship between the Shared Bicycles and Public Transport Based On the Propensity Score Matching and Difference-In-Difference Method
138	Agent-Based Simulation for Optimization of Bus Transit Lines
140	Influence of Public Transit Service Convenience on Leisure Activity-Travel Behavior Mechanism of Urban Elderly—Taking Kunming City as an Example
147	Studies on Suitability Evaluation of Urban Rail Transit System
174	Travel Pattern Analysis Based On Bus GPS and Card Record
177	Analyzing City Bus Services Quality Using Users' Preferences (Study case: Jakarta, Indonesia)
188	Travel Time Reliability Evaluation for Adjacent Bus Roads——A case study of bus route 355 in Suzhou City
194	The Research on Service Characteristics of Customized City Bus Based on Data Mining Technology
248	Impact Analysis on Vulnerability of Existing Network of Urban Rail Transit Connected With New Lines——A Case Study of The Beijing Metro
252	Optimal Time Period of Fare-free Public Transport Zone Based on Social Equity
254	Application of Opinion Mining to Improve Public Satisfaction Based on Comments Regarding Public Transportation Services on Review Sites
256	A Study of the Pricing model of trams under the conditions of networked operation
274	A Review of the Design of Passenger Transport Hub Sign System Based On Spatial Cognition
276	Analysis Of Bus Passenger Flow Characteristics Based On Multi-time Granularity IC Card Data
281	Comparative Study on Development Paths of Sino-German New Energy Buses
282	Route Network Design of Community Shuttle for Metro Stations by Genetic Algorithm Optimization
310	Simulation Study of the Staircase Position to Evacuation Efficiency at the Subway Platform
313	A Study of Simulation on Driving Cycle of Pure Electric Bus
324	Research on Real-Time Allocation of Bus Berths Based on Intelligent Electronic Bus Stop Board
333	Performance analysis of overtaking maneuvers at bus stops with tandem berths
338	Running characteristics analysis of bus vehicles: a case study in Nanjing city
340	Research on Optimization of Public Bicycle Scheduling
345	Comparison of NARNN and ARIMA Models for Short-term Metro Passenger Flow Forecasting
356	Heterogeneous transit network design based on bee colony algorithm
373	Online Car-hailing Trip Purpose Inference Based on Spatiotemporal Attribute
379	Research on Post Evaluation Framework of Modern Streetcar Based on Function Analysis
383	Research on Urban Park-and- Ride Site Selection
399	Research on spatial cooperation of urban bike-sharing systems in Nanjing based on multivariate data
405	Prediction of Bus Bunching Using Smart Card Data
408	Application of fuzzy comprehensive evaluation method in evaluation of rail transit connection
410	The Comparison of the service between Hellobike and traditional public bicycle in Jingjiang
416	A Classification Method of Metro-bus Intermodal Hubs Based on Principal Component Analysis and Cluster Analysis

427	An Evaluation System of Bus Service Quality Based on MaaS
429	The effect of socio-demographic and built environment attributes on docked bike-sharing: a multi-level model
432	Design of Arterial Green-Wave Considering Right-Turning Trams
445	School Bus Stop Selection and Routing with Walking Accessibility
461	A Learning-based Day-to-day Dynamics Model for Frequency-based Transit Assignment
464	Analysis of Factors Influencing Transit Equity from the Perspective of Traveler
467	Investigation and Analysis of Multi-mode Traffic Transfer Behavior in Metro Station of Nanjing
469	Analysis of Passenger Flow Breakdown at the Entrance of Escalator in the Subway Station
470	Study on shared threshold of sharing bus rapid transit exclusive lanes with conventional buses under the influence of multiple factors
508	A Methodology for Vehicle Routing Optimization of Flex-route Transit with Time Windows
518	Calculation of the number of people getting on board based on bus IC card data
548	Assessing Public Transit Supply from a Demand-oriented Perspective: A Case Study of Chengdu, China
554	Optimization of the layout of freight yard in maoming railway station from the perspective of multimodal transport
557	Public Transportation Analysis Based on Social Media Data
558	A variable-bandwidth approach to arterial traffic signal optimization with priority of straight and left-turn trams
563	Optimization of the layout of freight yard in maoming railway station from the perspective of multimodal transport
570	Applying the support vector machine to predicting headway-based bus bunching
591	Urban Rail Transit Station Carrying Capacity Analysis and Calculation
592	Analyzing the Influence of Upstream and Downstream Bus Stops at Intersections on Traffic Capacity and Establishing the Calculation Model
621	Analysis Method for the Railway Station Planning Scenarios base on PROMETHEE
623	Analysis of the current situation of Xi'an Public Bicycle system Operation based on data Mining
624	Study on the impact of subway on bike-sharing in suburbs
631	Short-term passenger flow forecasting model of bus sub-stop based on neural network
633	An scheduling method of sharing automated taxi based on multi-objective decision
656	The Trip Characteristics Analysis of Subway Riders Based on the AFC Data
660	Analysis of Trip Mode Selection for Middle School Students Based on Trip Characteristics
696	轨道交通衔接方式分析与设计优化研究 Analysis and design optimization of rail transit connection mode
712	Study on Allocation Scheme of Sharing Bicycle Without Pile
726	Optimization of Train Timetable for Urban Rail Transit Based on Short-Term Passenger Flow Prediction
738	Feeder Bus route layout model for rail transit
751	Bottleneck Analysis of Ground Bus Intersection Operation
781	Bus Dwell Time Prediction at Bus Stop with Missing Data
798	Bus selection intention model based on Theory of Planned Behavior
821	Research on Integrated Bicycle Network Planning Method in Tourism City
845	Combination Scheduling Optimization Model of Urban Conventional Bus Line

877	Research on Optimization of Bus Network in Emerging Metro Cities Considering the Randomness of Demand
883	Evaluation Framework and Priority Index of Bus System: A Case Study in Shanghai
901	USING ACCESSIBILITY MEASURES IN URBAN BUS NETWORK IMPROVEMENT: A CASE STUDY OF SOUTHAMPTON, UK
907	Storage Strategy of Reverse Logistics Repurchase Contract Based on Newsboy Model
913	CONTINUUM APPROXIMATION MODEL FOR OPTIMIZING PHASED DEVELOPMENT OF SCALABLE TRANSIT CORRIDORS
950	Optimization method of single bus route based on geographical information system
952	Optimization method of planning and layout for suburban highway access port based on network microcirculation
993	Comprehensive Evaluation of Xi 'an Public Transport Lines Based on POI and Spatial Distance Model
997	Metro Stations Classification Based on Clustering Analysis ---A Case Study of Beijing Metro
1013	Exploring the Spatial and Temporal Performance of Bike Sharing: A Case Study of Ningbo, China
1015	The Role and Development of Public Transit in Tourism Transportation
1017	Using General Transit Feed Specification (GTFS) Data as a Basis for Evaluating and Improving Public Transit Equity
1021	Measurement of Transit Network Accessibility Based on Multi-Modal Transportation Network: A Case Study of Wuhan
1028	Research on Travel Choosing Behavior of Car-hailing Service Using the Structural Equation Model
1041	Analysis on the structure of urban rail loop in xi 'an city——A case study of the Xi'an Subway
1046	Research on the stability of urban bus network based on complex networks theory
1048	Urban Public Transport in China
1055	Hesitant Fuzzy Comprehensive Evaluation of Transit Service Satisfaction
1058	A Comparison Study of Short-term Passenger Flow Forecast Model of Rail Transit
1128	Analysis of Fault Evolution on Road Traffic Network under Disruptive Traffic Accident
1131	Modelling Bus Queue Delay Considering the Dwell Time on First Berth For a No Overtaking Bus Stop
1133	Research on Transportation Mode Selection Based on Machine Learning
1137	Optimization and Application of Index System to Promote Transit-Oriented Development
1141	Improving bus operation reliability using real-time tactics
1170	Transit frequency optimization with elastic demand and limited budget
1178	Bus line length optimization based on bus GPS data
1219	Research on Bus Operation Control Method for Reducing Bus Bunching
1220	Analysis of the Influence of New Routes in Public Transportation Evacuation on the Stability of Existing Roads—a Case Study of Harbin Railway Station
1242	A Travel Pattern Generation Model to Synthesize Metro Passengers by Applying Machine Learning Methods on Smart Card Data in Shenzhen
1249	Tram Network Modeling for Optimizing Timetable
1255	Characterizing the Dynamics of Dockless Sharing Bicycle Program in Shanghai by Using Large Scale Data
1272	Real-Time Response Bus System for Non-Commute Demands in Suburban Districts
1282	The Method of Customized Bus Route Optimization for Passenger Flow Distribution Area
1287	Study on the Optimization and Evaluation of Signalized Intersections Based on the Emission Analysis
1293	Coordination Control Strategy of Green Wave Signals Considering Influence of Bus Station Entry and Exit

1315	Modeling on The public transportation system based on Nested-Logit theory
1348	Research on the Integration of Rail Transit and Conventional Bus Co-opetition
1355	Time-Space Integrated Optimization for Intersections with reversible lane and Dedicated Bus Lane
1362	Timetable Optimization Method for Single Bus Line Based On Multiple Vehicle Size Model
1370	Research of Transform about the Integration of Urban and Rural Public Transportation and RiZhao's reform
1378	Coupling Analysis for Multimodal Transfer Facilities at Urban Rail Stations
53	Cooperative Optimization of Yard Crane Deployment and Truck Appointment Based on Two-way Transmission of Information
60	Optimal ordering model of mixed-channel supply chain with random disruption risk
103	Research on Balance Optimization of T21 Production Line Based on Improved Genetic Algorithm
222	Identification of Non-Green Channel Vehicles at Highway Toll Gate Based on Logistic Regression Model
339	A Solution Algorithm for Dynamic Rebalancing Problem of Station-based Bike Sharing Systems
349	Situation Summarization and Trend Analysis of Highway Duty-Commanding Mechanism
376	Research on the Road Resistant Function Model of Urban Expressway
440	Research on integrated passenger transport hub service channels configuration based on AnyLogic Simulation
496	An evaluation of the impacts of built environment on commuters' mode traffic choice behavior: A case study in Shenzhen
588	Simulation of improvements to flow characteristics in diesel helical intake port by incorporating guide vanes into the intake manifold
650	Study on location model of cold chain Logistics distribution center considering goods damage
734	Research on Procurement Quantity and Inventory of Fresh Retailers Based on Nonlinear Game Model
835	A Bio-inspired Video Transmission Routing Protocol for VANETs in City
841	The influence of sharing bicycle on residents' travel mode
905	Security Risk Assessment for Connected Vehicles Based on Back Propagation Neural Network
914	Examining the influence factors of electric vehicle's recharging efficiency using survival model
966	Study on bus line planning methodology based on rail station
1061	Research on B2C Fresh food Product E-commerce's Pricing and Supply Chain Coordination Based on Consumer Behavior
1080	Research on Storage Location Assignment Optimization of BTC Cigarette Automated Stereoscopic Warehouse
1159	Data Analysis of Urban Intersection Based on Historical Traffic
1206	Vision-based Behavior Recognition System for Road Users Using Skeleton Data
1214	Forecasting method of parking demand of micro commercial complex
1231	Optimization of Container Multi-modal Transportation Routes from Chengdu to Shanghai
1284	Research on the Road Resistant Function Model of Urban Expressway
1335	A Research of the Spatial Layout Optimization of Logistics Parks in Jiangsu Province
1339	Electrical and Mechanical Properties of Self-sensing SHCC
1030	Assessing the Supply Volume of Dockless Bike-Sharing Using the Time–Space Consumption Model in Ningbo, China
70	Comprehensive Evaluation of Eco-driving Behavior Under Three Road Conditions Based on Driving Simulator
146	A Bilevel Programming Framework for Determining the Optimal Incentive-based Traffic Demand Management Strategy

185	Autonomous Lane Change Decision Making Using Different Deep Reinforcement Learning Methods
293	College students' travel behavior of bike sharing: Evidence from Jiaxing
448	The Influence of the Hydrodynamic Conditions on Navigation near Bridge Area
479	Application of Regression Analysis and Time Series Models for Freight Demand Estimation and Forecast at Lianyungang Port
607	Analysis on the speed behavior of the helix bridge based on naturalistic driving pattern
740	Multi-agent Coordination Learning Method for Connected and Automated Vehicles Navigating Intersections
1185	Research on method of judgement of online car-hailing vehicles based on tracking data of new energy vehicle
1196	Study on the characteristics and Strategies of the travel of the elderly in Jiaxing
1222	Prediction of driving risk during lane changing process using physiology information
1310	The Behavioral Characteristics Analysis for the Elderly's Bus-travel in JiaXing

Poster Session 3

15:30-16:30

Chair: Dr. Weiguang Zhang, Associate Professor, Southeast University, China

Zhonghua Exhibition Hall A/ 中华厅 A

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1	Analysis of Car Sharing Users' Behavior: Case Study of CCCLub in Hangzhou, China
30	The impact of car-sharing on the use dependency of private cars
38	Analysis of the Right-turn Lane Capacity under the Influence of Pedestrians
42	IMPACT OF COMMUNITY SEVERANCE FOR SAFETY OF LOCAL ACTIVITIES AROUND A MULTI-LANE HIGHWAY
49	long-inductive actuated signal control for pedestrian crossing
50	Quantitative Comparison between Leading Green and Conventional Setting of Pedestrian Crossing Signal Control at Intersections
51	Comprehensive Evaluation Method of Road Network Traffic Condition during Freeway Reconstruction and Extension
62	A Model for Improving Reliability in Bus Operation Systems Based on Speed Guidance
66	Research on the relationship and characteristics of traffic congestion and carbon emissions
75	Bottleneck Identification Method of Urban Rail Transit Network Based on Spectral Clustering
80	Simulation for Evaluating Traffic Performance of an Inland Waterway Lock
83	Case study on traffic organization optimization in the roads around a middle school
92	A cellular automaton model considering the exclusive lanes of autonomous vehicles on expressway
107	Research and Evaluation of Arterial Green Wave Coordination Control: A Case Study of Jingtang Road
108	The Impact of the Behavior of Bus Entering Lane Change on Headway
113	A Cumulative-prospect-theory-based Bi-modal Stochastic User Equilibrium Model under Tradable Credit Scheme: Considering Endogenous Reference Points and Transaction Costs
114	Study of Data-driven Traffic Congestion Level——Taking Yangzhou as An Example
121	Optimization of Variable Message Sign Locations Considering Stochastic User Equilibrium
122	Automatic Lane Line Painting Quality Evaluation Based on HSL Color Space Analysis
123	The Study of Travel Characteristics and Management Countermeasures of Winter Cities —— Taking Harbin as an Example
132	Optimal Parking Space Allocation Model Based on the Shared Parking in Residential Areas

139	A Spatiotemporal Deep Learning Approach for Citywide Short-term Free-floating Bikesharing Demand Prediction
148	An Optimal Coordinated Control Strategy for Signalized Intersections with the Contraflow Left-Turn Lane Design
150	Turning Green Wave Signal Control Optimization based on Route-choice Model
151	Research on the Traffic State Threshold of Saturated Flow in Eight-lane Expressway Merging Area
152	A Crash Risk Prediction Model for Freeways During Spring Festival Holidays In China
154	Intersection Self-Organization Control for Connected Autonomous Vehicles Based on Traffic Strategy Learning Algorithm.
168	Research on Dynamic Ramp Selection Control of Urban Expressway Based on Improved ALINEA Algorithm
175	Network level traffic congestion evaluation by supply and demand
176	A bi-objective model to stochastic emergency location routing problem
183	Analysis of unconventional design for signalized and closely-spaced T-intersections.
187	Research on Forecast and Evaluation of Traffic Congestion Situation in Urban Trunk Road under Accident Conditions
198	Research on Screening and Identification Method of Commuter Flow in Metro Card Data
202	Pricing, sharebility, and mode choices in a ride-sourcing market
216	Investigating the Impact of Travel Mode, Travel Duration and Personal Attributes on Commuters' Subjective Well-beings
218	Dynamic Estimation of Queue Length at Signalized Intersections Using GPS Trajectory Data
223	Investigating Correlation Between Personal Route Choice Behaviors and Macroscopic Traffic Flow Distribution Based on Long-term GPS Trajectory Data of Floating Vehicles
234	Spatial Analysis of the Relationship between Urban Built Environment and Public Bicycle Ridership
246	Traffic States Recognition and Prediction based on Floating Car Data
250	Research on Speed Control Section Division of Low-grade Roads in Urban-rural Fringe
253	Vehicle Routing Strategy for Disaster Relief Operation: A Case Study
264	Overview of Studies on the Wi-Fi probe data analysis for transport problems
260	Research on Control Mode of Tourist Transport Center in Dapeng, Shenzhen
267	Signal control method optimization based on the studying of headway distribution
277	A platform of traffic signal control simulation based on Artificial Intelligence
279	A Deep Reinforcement Learning-Based Lane-changing Control Framework for Improving Traffic Operation at Freeway
280	Modeling the Violation Behavior of Pedestrian in a Signalized Intersection
294	Research on Reliability of Traffic Signal Coordination Control for Urban Artery
308	Dynamic traffic signal control optimization for the intersection with contraflow left-turn lanes
322	Mining the Temporal-Spatial Patterns of Urban Traffic Demands Based on Taxi Mobility Data
325	Queue Spillback Intersection Prevention and Simulation Based on Vissim
326	Research on the Optimization of Temporary Parking Stations under the Condition of Online Car-hailing Mode
334	Intersection control type effect on automated vehicle operation
347	Shared Parking Floating Charge Method Based on the Parking Occupancy
350	Thinking about the smart structure of the new generation of public traffic management system
352	OPERATIONAL AND SAFETY ISSUES OF CONTRAFLOW LEFT-TURN POCKET LANES AT FOUR SIGNALIZED INTERSECTIONS IN CHINA
361	Capacity Analysis of Right-Located U-Turn Lane at Signalized Intersection

362	Signal control model of comprehensive waiting-area in urban intersection
367	Transit Signal Priority Control for Emissions and Average Delay
374	Displaced left-turn intersection: A two-stage model and application insight
381	study on Signal control based on intersection with waiting area
387	Real-time Detection of Stop-and-go Waves on Freeways Using Probe Vehicles
411	Short-Term Forecasting of Passenger Flow on Metro Platform using Kalman Filtering method
419	Study on the Optimization of Asymmetrical Arriving of Vehicles at Intersection on the Basis of VISSIM Simulation
436	Mechanism and decision model of parking reservation based of Business Process Reengineering
438	The Access Delay Model under High Access Volume
447	A Relaxation-Enabled Band Model for Network Traffic Signal Optimization
450	Study on the Factors Affecting the Geometric Parameters of Straight-for-waiting areas
463	Transit Operation Optimization in the Context of Connected Vehicles: A Case Study of Beijing
473	An automatic extraction method of saturation headway
476	Study on traffic flow characteristics of multi-lane freeway tunnel
483	Gating Control for Congested Network with Multiple Sub-regions and Dynamic Boundaries
493	Influence of Elderly Pedestrians on Section Uncontrolled Crossing Facilities
505	Signal timing optimization design of isolated intersection
513	The accuracy of short-term passenger demand prediction for each individual area
519	Evaluation on the Development Level of Multimodal Transport Enterprises
529	Research on the Influence Mechanism of Traffic Jam near Primary and Middle Schools ——Take Yangzhou Garden Primary School as an Example
530	Research on the Minimum Wagons Organized Number of Train Considering Dual Benefits in Railway Marshalling Station
533	Quantitative Evaluation of Arterial Road Network Planning Based on Functional Reliability
535	Modeling of vehicle motion pattern in intelligent traffic surveillance video
536	Arrival and Departure Track Utilization Adjusting Plan for Passenger Station Considering Fluctuation of Train Arrival Time
537	The study on capacity under the influence of transit lane-changing
540	Intersection traffic signal optimization method considering transits' lane-changing behaviors
541	Manage automated driving with mixed traffic: A Strategy with Human Drivers as Platoon Leaders
542	Research on measure set and dynamic of platoon in connected vehicle environment
553	Shared-car travel market regulation strategy based on three-party evolutionary game
556	Quantitative Study on Service Level of Signal Intersection based on Acceleration Disturbance
560	Fuzzy and Random Reliability of operation on Urban Expressway Interchanges
561	Improvement of traffic noise propagation model in block residential quarters
569	Description index selection and Bottleneck Identification of urban traffic bottlenecks
572	Dynamic lane model for isolated intersection considering lane-changing behavior
573	Short-Term Speed Prediction of Expressway in Peak Hour Based on KNN-SVR Method
575	Exploration and planning of water bus in urban new district——Taking Hangzhou Science and Technology City as an example

576	Research on Evaluation System of Block District Setting
585	A new structural template design of control instruction for semantic analysis
597	Comprehensive optimization of time and space resources for intersection based on main path coordinated control
603	Demonstrating the representativeness of sampled trajectories for real traffic condition
625	Cooperative Multi-intersection Traffic Signal Control Based on Deep Reinforcement Learning
639	A bi-level random forest method for real-time queue estimation based on LPR and GPS data
649	Analysis of Setting Condition for Variable Approach-Lane at Signalized Intersections
655	Evaluating Contributing Factors of Leading Vehicles to Car-Following Behavior Under Different Traffic States
657	Synchronization analysis of coupled network systems with multi-weights Lyapunov functions in traffic flow networks
669	Sweet spot optimization strategies in urban road network based on Macroscopic Fundamental Diagram
674	A Comparative Study on Machine Learning Algorithms for Parking Availability Prediction Model
675	Segment Importance Ranking Approach for Traffic Networks based on Macroscopic Fundamental Diagram
685	An Extended Intelligent Driver Model to Describe the Impact of Cyberattacks on Connected Vehicles
689	The Application of Parallel Flow Intersection: Discussion on Asymmetric Flow Input and Area Restriction
691	Traffic Signal Timing via parallel reinforcement learning
703	Link travel time approximation for network with traffic signal control
708	Prediction model of vehicle headway based on data-driven
710	Research on Regional Dynamic Left Turn Prohibition Control Considering Exhaust Emissions
745	An Intelligent Traffic Signal Control System based on Fuzzy Theory
758	Research on Inclusive Design Method for Urban Old Community Traffic —— Taking Jinan as an Example
764	Modelling cascading failure of urban traffic network under rainfall weather events
767	The Impact of Vessel Speed on Traffic Organization under Safety in a One-way Waterway with Multi-junction
769	Urban Traffic Condition Clustering Analysis Based on Speed Variation Trend
788	Detection of the illegal passenger pick-up behavior in expressway service area based on pedestrian portable detection
794	Study on Variable Speed Limit Effect of Tunnel Section of Mountainous Expressway Based on VISSIM Simulation
800	Coordination Control Strategy of Variable Speed Limit on Freeway Merge Area
810	Research on License Plate Recognition Technology under Occlusion
813	Development of volume control model for bike sharing systems
825	ANALYSIS OF LANE-CHANGING BEHAVIOR AT THE BOTTLENECK OF AN URBAN FREEWAY
838	A Signal Control Scheme Optimization Method for K-shaped Intersection Using Genetic Algorithm
843	Urban headway frequency distribution model and analysis based on dividing traffic flow conditions
898	A dynamic model choice analysis for the bus line
915	A Dynamic Lane Alignment Method at Signalized Intersection in Vehicle-Infrastructure Cooperation Environment
918	Simulation-based Dynamic Traffic Assignment Modeling for Urban Expressway Network: A Case Study of Suzhou Expressway in China
923	Analysis of Capacity and Safety for Tandem Intersections Based on Field Data
932	Identification and Key Paths Recognition for Oversaturated Intersection Groups Using Trajectory Data

937	Research on Dynamic Coordination Control of Over-saturated Adjacent Intersections
942	Evaluation index system for coordinated development of multimodal transport in inland hub Free Trade Area
986	Research on e-bike conversion factors at signalized intersection of urban road
995	Will the Congestion Ranking based on Traffic Index be Reliable?
1001	Optimizing Departure Frequency of Modern Trams Based on Stochastic Demand
1007	Analysis of Traffic Oscillation Mechanism and Harmonization Method of Speed Optimization at Signalized Intersection
1014	Managing the Congestion and Emissions with Road Pricing Scheme Based on Practical Case Study
1019	Research on dynamic traffic control system scheme for continuous bridge section of expressway on ice and snow weather
1043	Operation Safety Risk Evaluation Method to Civil Engineering System of Urban Rail Transit and Its Application
1047	Optimization of Bus Dispatch System Based on a Genetic Algorithm
1053	An Analysis on Characteristics and Behavior of Traveling by Internet Chauffeured Car
1059	Evaluation of Lane Allocation with Multiple Objectives Based on Trajectory Data
1074	A Reinforcement Learning Method for Traffic Signal Control at an Isolated Intersection with Pedestrian Flows
1078	Deep Learning Based Congestion Prediction Using Probe Trajectory Data
1085	An Efficiency Enhancing Straight/Right-Turn Hybrid Lane Utilization Approach in Rush Hours in Arterial Intersection by Setting Waiting Zone
1086	Road Level Grading Algorithm in Driving Style Evaluation for Pay-How-You-Drive Commercial Vehicle Insurance
1088	Behavior Analysis of Pedestrians and Drivers at Signalized intersection based on the Game Theory
1090	An optimal control framework for single-region trip-based macroscopic fundamental diagram system
1095	Centralized adaptive traffic control strategy design among multiple intersections: An approximated Lagrangian decomposition approach
1102	Separate Dual-Left Turn Signal Optimization Timing Method
1110	Study of signal timing and traffic design methods for roundabout
1120	Research on Railway Passenger Ticket Pricing and Seat Management Based on Revenue Management
1127	Control of a bottleneck with capacity drop: a point queue approach
1130	Identifying Access Management Factors Associated with Safety of Urban Arterials Mid-blocks: A Quantile Structural Equation Model Approach
1140	Research on the Construction Mode of Intelligent Transportation Management System in China County
1145	Analysis and optimization of pedestrian traffic signal at intersection
1146	The Operating Speed Model for the Uniform-Speed Section of Interchange Ramp
1148	Real-time Traffic Safety Evaluation Model for Freeway in Foggy Conditions
1155	Modelling for joint urban parking charge and park-and-ride scheme in a multimodal transport network
1156	Analysis of the use rate of transport modes influenced by customized buses
1158	Impact analysis of congestion pricing scheme in a multimodal transport network
1166	Vulnerability analysis of road network in container terminals based on agent based microscopic traffic simulation
1168	Study on the Lateral Position Characteristics of Non-motor Vehicles on the Urban Branch Road
1171	Study on Pinning Control Methods of Urban Road Traffic Network
1175	Optimization on the Vehicle Routing Problem based on Customer Satisfaction
1179	Risk decision control model for traffic state transition between expressway and parallel arterial highway

1192	A Fast and Accurate Solution for Identifying Green-Channel Vehicles in Highways Using Big-Data Analysis
1193	Crossing Behaviors of Electric Bicycles of Urban Road Work Zone
1197	Refined analysis of the relationship between supply and demand of night parking in classified residential areas
1202	Method of Optimize for Contraflow Left-turn Lane Organization at Intersections
1212	Priority Control of Regional Boundary Bus Signal Based on Petri Net
1233	Left - turn Conflict Recognition Model Based on PET Of Signalized Intersection
1241	Reviewing Some Facts of Traffic Signal Operations through the Mining of the Broadcasted Traffic Signal Status Data
1265	Risk Early-warning Model of vehicle defect based on multi-source information fusion
1275	Evolutionary Game Analysis on Supervision and Governance for Road Traffic Violations Considering Public Participation
1285	Three-dimensional Comprehensive Analysis of Transportation Network Operation Conditions
1318	Traffic Flow Simulation Study Considering Blind Driving Behavior
1354	Subjective Driving Delay Threshold: A Comparative Study among Drivers with Different Personality
1360	Non-intersection zebra crossing ground warning system
1376	The Real-time Road Traffic Signal Light Assignment Strategy Prediction Based on Deep Learning
1379	Study on Pollution Diffusion Based on Throughput in Port Area
1381	Remote sensing and scene reconstruction of traffic accident based on unmanned aerial vehicle platform
3	The settings of Optical Illusion Deceleration Markings at the Passageway of Freeway Long Tunnels
4	Investigation of Reasonable Information Load on Integrated Intersection-Approaching Signs
19	Study on Highway Glare Index under Wet Condition Based on DIALux Simulation
21	Intelligent Warning Scheme against Secondary Traffic Accident Based on Multi-Source Data
39	Driver Identity Recognition Based on Curved Handprints on Steering Wheel
40	Study on prediction model of friction coefficient of icy road surface
43	Deployment of Freeway Rest Area under Adverse Weather Condition
58	Collision Hotspots Identification based on Big Data about Aggressive Driving Behaviors
68	Risk Assessment Method of Weaving Section Based on Traffic Conflict Index of DRAC
87	Analyzing Crash Injury Severity on Rural Two-lane Highways in China
102	Application of GM(1,1) Model in Surface Settlement Prediction in the Maglev Protected area
106	Simulation Study of Vehicle Speed Variation based on BP Neural Network PID Control
129	Research on vehicle Intelligent Merging Control Strategy on merging area of Expressway construction section
130	Effect of various factors on accident severity in London using ordered logistic models
143	The Full-automatic Traffic Cone Placement and Retrieval System Based on Smart Manipulator
159	The Methodology of Highway Disaster Emergency Planning based on Scenario-Target-Capacity
179	Quantitative analysis of conflicts caused by passengers with baggage in the passageway
226	Resilience Enhancing Strategy and Model of Compound Public Transit Network Based on Disruption Situation
233	Research on the Classification for Road Traffic Visibility Based on the Characteristics of Driving Behavior ——A Driving Simulator Experiment
235	Study on the Using Characteristics and Satisfaction of the Shared Bikes in China——Analysis Based on Online Questionnaire Survey

242	Research on Accident Propagation Path of Urban Rail Transit Based on Safety Entropy SIR Model
244	Effects of the London Congestion Charge on Road Casualties: A synthetic control study
283	An adaptive relay nodesselection scheme based on distance and speed for multi-hop broadcast protocols in VANETs
291	Simulation Study on Deformation and Failure of Tank truck in Rear-end Collision
295	Study on the Risk Evaluation of Commuter Bus in Coal Enterprises Based on GAHP
380	Research on Speed limit method of Expressway main road Based on Rainy Environment and Its Influence on Vehicle Confluence
404	Research on the parameter identification and extraction for early warning of tank transport truck of hazardous article
413	Studies on Characteristics and Countermeasures of Container Transport Vehicle Crashes in Waihuan River-crossing Road Tunnels
420	Emergency Rescue of Service Areas Based on Big Data
431	Research on Crash Prediction Model for Freeway with Heavy Traffic in Urbanization Area
435	Prediction for Imbalanced Sample of Traffic Crash based on Random Forest and SMOTE
499	Association rule based traffic accident impact factors analysis on low-grade highways
506	Identification of Key Factor in Traffic Conflicts of Cross-Frequency Road Based on Rough Set Theory
512	Development and application of in-depth accident database based on automobile event data recorder
538	Influence of transition type between bridge rigid guardrail and W-beam barrier on crash protection performance
544	The Application of Structure Laser Detection System in Medium and Low Speed Maglev F-rail Detection
559	Analysis of the overspeed when driving on urban arterial based on SP survey
571	Application of Traffic Image Recognition in Driving Safety in Snowy Days
578	Simulation and Analysis of Highway Lane Restriction Strategy Based on Traffic Conflict Technology
594	Analysis on the Wind Contributions to Bus Accident in Undulating Terrain
608	Study on Lateral Operation Characteristics of Vehicles in Interchange
616	Study on the cyber physical system for the early warning operation state of vehicles in transit
634	Control method of variable speed limits at the freeway tunnel entrance under rainy weather
659	Analysis of the Injury Risk for Elderly Drivers' Accident Based on Improved Decision Tree Algorithm
663	Investigation and Analysis of Sudden Death of Professional Drivers
667	SAFETY ASSESSMENT OF THE SINGAL COORDINATED ARTERIALS
671	Evaluation of real-time safety performance at nighttime signalized intersections based on traffic conflicts models
683	Short-term traffic flow prediction based on hybrid traffic state transition analysis and LSTM neural network
692	Hydraulic interconnected suspension optimized installation of tractor-semitrailer for rollover prevention
707	Optimization of evacuation traffic flow distribution based on road fundamental diagram
735	On the Relationship between Traffic Violation Behavior and Crash Involvement Using Locally Linear Embedding and Improved K-means Algorithm
765	Observation ability self-assessment of novice drivers based on questionnaire survey
771	Research on Lane Depature of Passenger Cars on Interchange Ramp
772	Analysis of factors influencing the start-up of feeder bus plan under a sudden subway service disruption
783	Hierarchical Division Method of Road Network for Critical Points Identification
791	Risk Analysis of Transportation Projects in CPEC

797	Research on the effect of modifiable areal unit problem on regional crash prediction model
801	Research on Optimization Model of Intercity Traffic Travel Mode Selection Based on Two-Level Decision Model
819	Research on Evaluation Method of Safety Management of Urban Rail Transit Operation
846	INCORPORATING SAFETY RELIABILITY INTO ROUTE CHOICE MODEL: HETEROGENEOUS CRASH RISK AVERISION
878	Research on Rural Road Safety Promotion Method Based on Weighted Analysis in Mountainous Areas
891	Study on traffic safety of expressway under fog environment in high altitude area
903	An Evaluation Standard Designed to Measure the Performance of ADAS
904	Cause Analysis of Road Traffic Accidents under Snow and Ice Weather
917	The interactive effects of weather conditions and roadway alignments on freeway monthly crash counts
919	Analysis of Emergency Evacuation Passenger Behavior of Urban Rail Transit Station Based on Social Force Model
935	Developing a V2I Monitoring and Early Warning System for Safe Driving on Waterlogged Roads
945	Bayesian network-based major road transport accidents analysis
948	Research of the Method of Creating emergency plans of highway traffic based on CBR
949	Effects of road resurfacing on crashes occurring on the only main road in a town
969	Research on Influence Factors of Pedestrian Crossing Speed in Unsignalized Mid-block Crosswalk
972	Conflict probability prediction at signalized intersections considering microscopic running characteristics of vehicles
998	Research on the Influence of Driver's Lane-Changing Behavior on Driving Safety Under Traffic Congestion
1005	Safety Assessment of the Cars without Identified Plate Number on Freeways in China
1016	Inter-national Benchmarking of Road Safety: Indicator Development and Data Preparation
1049	The Analysis of Road Condition Causes of Traffic Accidents on Mountainous Highway and Its Safety Countermeasures
1054	The applicability analysis of "Technical Guide for Implementation of Highway Safety and Life Protection Engineering " in risk assessment of mountainous rural roads
1057	Study of Traffic Management Strategies Based on Non-live Violation of Data
1069	Road Safety Risk Analysis of European Countries: Implications for Management and Transport Policy
1070	Accident Analysis of Motorways: An Application of a Two-Stage Risk Evaluation and Decision Making Approach
1077	Speed and Lane Changing Control Optimization Research on Accident and Congestion Concentrated Sections of Guang-Shen Expressway
1115	Traffic dynamics for pedestrians in multidirectional flows
1117	Network and Frequency Design for Bus Bridging Service Considering Passengers' Heterogeneous Risk-taking Behavior
1119	Analysis of Freeway Secondary Crashes with A Two-step Method by Loop Detectors
1143	Reliability Research of Rail Transit Equipment Based on Survival Analysis
1151	Estimation of Value of Statistical Life Using Willingness-to-pay Method in Hangzhou, China
1164	Modeling e-bike crash severity by accounting for unobserved heterogeneity in China
1165	Research on Safety Level of Service at Urban Tunnel Convergence Section
1169	Statistical Analysis of Illegal Cycling Maneuvers for Commuting Bicyclist
1180	Driving Safety Assessment and Management for Hidden Danger Segments of Low-grade Roads under Adverse Weather
1183	Research on Expressway Operation Risk Based on Multi Factor Safety Entropy Model
1188	Traffic demand for emergency evacuation under emergency

1208	The emergency quantitative scheduling research on traffic accident random alarm technology of wide-area sparse road network
1215	Design and Analysis of Expressway Accident Emergency Facilities--a Case Study of Ha Sui Expressway
1323	Multi-objective Routing Optimization for Urban Emergency Rescue vehicle
1326	Utilizing Decision Tree Method and ANFIS to Explore Real-time Crash Risk for Urban Freeways
1353	Research on Method of Determining Speed Limit in Freeway Traffic Accident Protected Area Based on Aimsun Simulation
1361	IOT fog warning system research
1382	Safety Risk Factors Identification and Safety Risk Classification Assessment for Rural Roadsides
292	A mixed traffic flow stability analysis based on a Markov chain method
299	Route Choice Behavior under Random Perturbation Information
397	A Machine Learning Approach for: Highway Intersection Risk Caused by Harmful Lane-Changing Behaviors
516	A connected vehicle platoon control model for time-varying communication topology based on model predictive control (MPC)
526	Effect of Built Environment on Activity–travel Behaviour: A Comparative Study between Kunming and Qujing
609	Discretionary Lane Change Model for Intelligent Connected Vehicles on Expressway
654	Short-time Traffic Forecasting of Urban Road Network: An ANN Model Based on DTW Clustering
693	Scenario based Infrastructure Requirements for Automated Driving
739	A Stochastic Simulation-based Optimization Method for Calibrating VISSIM Simulator under Uncertainties
755	An Improved Target Detection and Traffic Parameter Calculation Method Based on YOLO with a Monocular Camera
802	Activity Patterns Identification based on National Household Travel Survey Data
818	Driver's Auditory Reaction Characteristics in Lane Change Behavior on Urban Expressway Based on Simulated Driving Experiment
842	Research on Pedestrian Crossing Behavior in Low-Grade Highway Segments Through Towns and Villages
849	Invulnerability Reliability Evaluation Method of Urban Road Network in Emergent Evacuation System in Unexpected Disasters
858	Forecasting Short-Term Entrance Passenger Flow of Urban Rail Transit Stations by the Improved Elman Neural Network
864	Modeling the Transfer of Residents' Travel Mode Considering Bike-Sharing Based on Logit Model
896	Comparative Study on Fatigue Design of Orthotropic Steel Bridge Deck Based on Different Codes
1149	A Vehicular Mobility Model for Ramp Control Based on Artificial Fish Swarm Algorithm
1174	Travel Track Recognition Based on Natural Language Processing
1263	Research on Railway Student Flow Analysis and Decision-making
1320	String stability and platoon safety analysis based on desired safety margin model considering time headway policy
1351	An Architecture of Autonomous Car Simulation System
1377	The impact of travel time uncertainty on day-to-day route choices

Poster Session 4

Chair: Dr. Weiguang Zhang, Associate Professor, Southeast University, China

16:30-17:30
Zhonghua Exhibition Hall A/ 中华厅 A

Paper ID	Paper Title
5	Study on Environmental Benefit of Variable Message Sign Dynamic Route Guidance Strategy
13	Signal Time Optimisation Model and Solution for Minimum Energy Consumption at Intersections
20	Study on Intensity of Energy Consumption of pavement construction equipment
73	Evaluation of the effectiveness of Eco-driving strategy for reducing urban bus emissions based on PEMS
166	Study on Comprehensive Evaluation Index System of Green Highway Transport Enterprises
219	Theoretical and experimental analysis of pavement temperature variation characteristics
265	Analysis of Consumer selected intentional Behavior of New Energy Vehicle Using Structural Equation Model
296	A Method to Calculate the Capacity at Unsignalized Intersection for Automated and Connected Vehicles Based on Gap Acceptance Theory
302	Restrictive Factors of Cross-border Trade on Kunman Highway
320	Bilevel dynamic continuum model for housing allocation and transportation emission problems in an urban city
335	Model-based Techno-economic Evaluation of Fuel Cell Vehicles Considering Technology Uncertainties
401	Optimization of traffic signals and vehicle trajectories to reduce fuel consumption and emissions at isolated intersections
471	Prediction of Electric Vehicles charging behaviour based on the data of connected Vehicles
515	Dynamic Enivironmental Impact Assessment Along With Energy Structural Evolution In Transportation Network
527	Analysis on the Development of Light Weight of Automobile body
546	INFLUENCE OF ELECTRIC BICYCLE ON MODE TRANSITION IN URBAN TRANSIT
550	An Urban Transportation Sustainable Development Evaluation Method Based on Multidimensional Cloud Model
568	Study on the Evaluation Indicators of New Energy Buses Technical Performance Using Actual Operation Data
620	An Analysis on Impact Factors of Bus Fuel Consumption Based on Decision Tree Model
642	An optimal charging station location model with the consideration of energy consumption feature
677	Analysis on Energy Consumption and Exhaust Emissions at Intersection under Transit Signal Priority
679	Influence of Pedestrian Crosswalk Guidance Strategy on Traffic Efficiency and Exhaust Emissions
686	Evaluating the Contribution of Truck-to-Rail Modal Shift to CO2 Reduction in Hinterland Transport
716	Influence of meteorological factors on aircraft pollutant emissions for approach flights
731	The Influence of Urban Road Service Level on Vehicle Fuel Consumption in Beijing
749	Optimal vehicle speed trajectory of freeway on-ramp merging areas using connected and automated vehicle technology
754	Optimal Deployment of Roadside Environmental Stations for Air Pollution Monitoring based on Historical Meteorological Data
759	A Macroscopic Diffusion Model for Intercity Air Pollution
773	Comparison of Thrust Calculation Methods and the Their Effects on Fuel Consumption Evaluation
782	IMPACTS OF THE BELT AND ROAD INITIATIVE ON LOGISTICS AND CO2 EMISSIONS IN DRY PORT CITIES
787	Understand the relations of regional freight transport structure and carbon emissions
793	Optimization Model Of Intersection Signal Considering Exhaust Emission
809	Research on Train Interval Optimization Based on Speed Grade Energy Saving

879	Timetable optimization model for metro trains: considering energy saving
887	An Optimization Model of Rail Transit Train Operation: Considering the Energy
894	Research on Environmental Impact of Traffic Organization Optimization Measures in Urban Road Intersection Construction Area Based on Microscopic Simulation
934	Evaluation of Variable Speed Limits Strategy on Traffic Emission for Traffic Flow Mixed with Connected Auxiliary Driving
988	Exploring Optimal Signal Priority Control Upon Multi-bus Priority Request Control in Single Intersection
1020	Sustainable Road Transport in the European Union: A Benchmarking Study
1033	Energy saving and emission reduction potential analysis of urban public transport in China——A case analysis of Yinchuan City
1042	LNG Bus Emissions Prediction Using Neural Network
1044	A combined approach to design statistical indicator system of traffic and transportation energy consumption monitor
1071	A Novel approach to reveal travel patterns of city residents Based On Mobile Internet Locating Data
1114	Feasibility analysis of vertical-axis wind turbine installation for highway wind energy harvesting
1338	The Blocking Effect of Sound Barrier on Road Noise under Road Expansion Conditions
2	Identification Method and Application of Traffic Demand Characteristics of Rail Transit Site
36	Incremental Equilibrium Assignment and Its Applications
45	Oversize Load Detection in Rail Freight Transportation: a Method Based on Mask-RCNN
47	Study of Road Network Capacity Based on the Time-Space Consumption and the Traffic Operation Efficiency Theory
64	Institutional Innovation for the Transition of Public Transport to Zero-Emission Traffic
65	Research on the Development Policy of Urban Transportation Planning System under the Background of Chinese Multi-planning Integration
72	Study on the Impact of Accessibility on Traffic Status for Urban Road Network
105	Reason Study on Imbalanced Traffic Flow on Temporal and Spatial Distribution for Urban Road Network
117	Flex-route Transit Service with Different Degree of Dynamism
142	Research on parking choice in business circle
144	Research on Location of Comprehensive Passenger Transport Hub in Small and Medium-sized Cities Based on MIP model
155	Carsharing in China: Present State and Future Challenge
161	Economic benefit evaluation model of PPP project of public parking lot and sensitivity analysis
163	Modeling Phased Evacuation Network Optimization Based on Public Transit
164	Research on Influence of front Virtual Work Zone on the Traffic Operation on Expressway construction sections
169	A Trajectory-Mining Approach to Derive Travel Time Skim Matrix in Dynamic Traffic Assignment
171	Investigating commuters' leisure activity choice behavior based on metro smart card data
180	Research On Road Capacity Improvement Based On Real-time Road Condition Information And Cloud Model
190	The Research on the Interrelationship between Chinese Household Members' Activity and Travel Behavior based on PA-OV Model
206	Optimizing Multiple Distribution Centers Location under Fuzzy Environment
210	A parking utilization prediction approach based on NARNN model
214	Analysis of Transit Accessibility to Transportation Hubs at Multi-Scale Based on OpenData and ArcGIS: The Case of Nanjing
217	Car Ownership Growth Pattern of County-level Regions in Jiangsu, China
229	Recognition of Cycling Maneuvers for Commuting Bicyclist: Using Convolutional Neural Network

241	Study on the Cycling Attraction Area of Metro Station Based on Sharing Bike Riding Data: An Empirical Study in Beijing
247	Traffic Characteristics Analyses of Intersections Based on the Road Detector Data
249	A Bayesian network approach for assessing the general resilience of road transportation systems: A systems perspective
261	A Model to Evacuate Flow on Urban Traffic Network Considering Multi Travel Mode
262	Study on Algorithm of The Distributed Parallel Real-time Extraction and Reconstruction of Trajectory Based on Video Big Data
263	Quantitative Study and Analysis of The Mechanism of The Road Traffic Accidents Based on Traffic Accidents Big Data in Suzhou
266	An extended stimulus-response car-following model based on safety distance
287	Comparison on flight delay propagation base on the mechanism of epidemic spreading
288	Comprehensive Evaluation Method of Accessorial Parking Lots of Commercial Buildings
303	Implementation Effect Evaluation of Shenzhen HOV Lane
305	Deep Trajectory Similarity Model: A fast method for trajectory similarity computation
306	Research on two-echelon open location routing problem with simultaneous pickup and delivery base on perishable products
307	Optimization of Vehicle Routing problem in Cold Chain Logistics under Low Carbon Economy
309	Analysis on Characteristics and Causes of Traffic Accidents in Interweaving Areas of Freeways
317	Malformed Intersection Level of Service Promotion Strategy Research Based on VISSIM
321	Delineation of the service scope of facilities based on 4G mobile phone data
330	Research on connectivity reliability of tourist attraction traffic network based on node importance
348	The Truck Routing and Aircraft Assignment Problem with time windows
354	Utilizing Mobile Phone Signaling Data for Trip Mode Identification
360	Optimization on Roadside Parallel Berth Planning Based on Hybrid Model
391	Evaluation of Built Environment in Large Cities in China Based on TOD
396	An Applicable K-factor Computation Methodology for Increasing the Capacity of Existing Expressway
402	Individual Vehicle Travel Time: an Estimation Method Based on Floating Car
403	Ideal walking time to transit stops: A comparative analysis between car users and public transit users
406	Modeling Commercial Vehicle Tour Frequency for Urban Areas
409	Traffic Organization Optimization and Micro-simulation Evaluation for Metro Work Zone A Case of Nanmendou Station in Fuzhou
414	Game analysis of road traffic congestion
415	Tolerance thresholds of waiting time at transit stops: Evidence from Kunming, China
417	Optimization of urban expressway travel distance based on supply and demand relationship
422	Multidimensional Transport Appraisal with the Inclusion of Land-use Impacts Using an Integrated Land Use Transport Model
423	Research on the Influencing Factors of Behavior Patterns of Car-sharing Users
428	Sensitivity analysis and selection of check index of signal intersection simulation model based on VISSIM
441	An empirical analysis of bike sharing travel characteristics in Kunming
442	Design of Traffic Flow Analysis System Based on UAV Video
460	An Approach of Vehicle Speed Estimation Based on Didi GPS Data
462	A Scale-dynamic Network Abstraction Approach for Traffic Analysis

468	Research on service road network partition standard
472	Coupled synchronization analysis of two adjacent intersections based on two chaotic systems
474	Research on Identification of Traffic Impact Range of Commercial Land Based on Location Accessibility
488	Research on Coordinated Freeway Ramp Metering Method Based on Dynamic OD Matrix Prediction
489	Traffic Bottleneck Identification Algorithm Based on the Different Cycles of Coils Detecting Data
491	Study on pre-signal control of the left-turn lane of bus stops at urban intersections
495	Research On the Snow Sweeper Path Optimization Based On the Network Vulnerability
509	A Geographically and Temporally Weighted Regression Model to Explore the Spatiotemporal Influence of Built Environment on Trip Distribution: A Case Study in Hangzhou
510	Research on the Built Environment of Medium and Small Cities from the Perspective of TOD
524	Traffic Planning Strategies under the Concept of "Urban Double Repair": A Case Study of Yingtan
525	Sample Observation and Reflection on the "Streetization" of Urban Roads in China
532	Research on Commodities Distribution and Location Route Problem Based on Time Deprivation in Emergency Logistics
534	Research on demand point of customized bus based on bus IC data
539	A Cooperative Scheduling Framework for Shared Transportation Services
543	Transit Signal Priority Optimization with the Vehicle Operating Characteristics Analysis at Intersection
545	A Multiple Path Gradient Projection Method for Solving the Logit-based Stochastic User Equilibrium Problem
564	Location and Capacity Model of Electric Vehicle Charging Station Considering Cold Zone Characteristics
593	Research on Design Method of Traffic Infrastructure and Land Use Integration at Urban Rail Transit Central Station
600	Automated Traffic Volume Analytics at Road Intersections Using Computer Vision Techniques
601	Study on the optimization of express transportation route based on different transportation organization mode
605	Research on the Mechanism of Driving Style in Driving Behavior under Ice and Snow Conditions
613	Research on Carrying Capacity of Integrated Transportation in Guanzhong Plain Urban Agglomeration
615	Study on bike sharing rebalancing: Evidence from Kunming
618	Research on the Formation Mechanism of the Precursor Stage of Traffic oscillation
622	Improved Molecular Dynamics Car-following Model
630	Research on Optimization of Express Delivery Route in Central City Area
632	Study on Integrated Design Method of Transport and Land Use for Junction Center Station of Urban Rail Transit
640	Analysis and Allocation Method for the Permits of Shared Appertaining Parking Facilities
645	Evaluation of Road Network Structure in Beijing Tongzhou New City Based on Remote Sensing Map Image Data
646	The design of optimal parking charges in the presence of carpooling
647	Extended Cooperative Adaptive Cruise Control Model of Mixed Traffic Flow Based on V2I Communications
678	A Data-Driven Method for Evaluating the Efficiency of Air Traffic Control about Arrival Operations
698	Research on Demand Forecast and Parking Spots Optimization for the Station-free Sharing Bike
700	Electric Vehicle Routing Problem with Multiple Paths
705	Multi-objective Continuous Equilibrium Network Design Based on Adaptive Niche Genetic Algorithm
717	Research On Active Pre-Control Starting Threshold And Control Method For Traffic Congestion Area

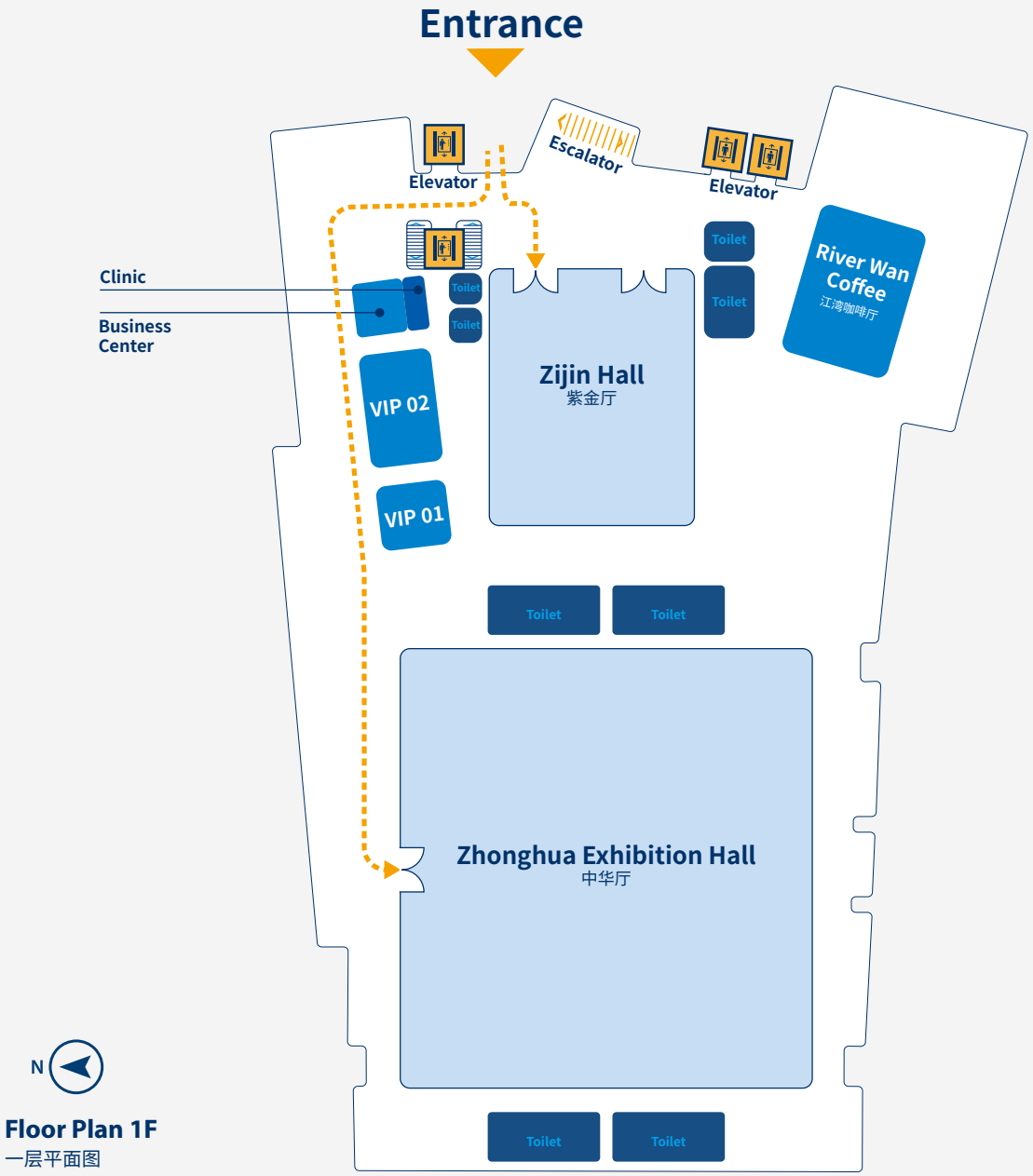
721	Optimizing line planning and the demand captured by high-speed railway jointly
722	Line Planning for High-Speed Railway with Time-Dependent Demand
723	Spatial Temporal Characteristics of Residents' Activities Based On Didi GPS Data
728	A vehicle routing problem with dynamic demands based on consumers' response to promotion activity
729	Non-motorized traffic index
730	A Composite Dispatching Rule based Method for Multi-Objective Aircraft Landing Problem
741	Optimizing the Airline Network integrating the Influence of Mega-transport-projects on Airport Choice a case study in China
742	Spatial Characteristics of Guangzhou Based on Road Network Comprehensive Accessibility
744	Research on Site Selection of Logistics Nodes in Expressway Service Area Considering Truck and Trailer Vehicle Routing Problem
753	Shared Bicycle Regional Allocation Planning Model Based on Bi-Level Programming
770	Mitigating the truck flow caused congestion: A regional logistics network design problem with service decay
775	Dockless Bikes-Sharing Rebalancing Problem with Simultaneous Faulty Bike Recycling
778	Analysis of Public Travel Behaviors of Elderly in Cold Region Cities with Multi-source Data Fusion
780	Research on optimization of road network layout in new urban distract under civil-military integration
805	Research on Location Optimization for Bus Depots Considering Dead Kilometers:A Case Study in Xi'an,China
811	Research on Panic Diffusion Model of Urban Rail Transit Station Passenger Flow under Emergency Evacuation
817	Developing Ridesharing, but for Which Trip Category? A Comparative Analysis for the Paris Region
824	Case Study on Cargo Transport Restructuring Strategy- Beijing-Tianjin-Hebei Region
826	The classification of high speed railway stations along the Shanghai-Nanjing HSR line using open HSR frequency data
828	Development Status and Problems of the Integration ofTransportation and Tourism in Qingdao
831	Study on Logistics Land Arrangement for Chinese Cities Engaging in the "Belt and Road Initiative"
844	Integrated Transportation Hub City Identification Based on Railways and Air Service Network
853	Evaluation of Road Passenger Service Quality Based on BP Neural Network
855	The design of the truck–free carrier integrity management
859	Marketization Process and Transportation Infrastructure Public-Private Partnerships Mode Selection
862	DURATION PREDICTION FOR TRUCK CRASH BASED ON XGBOOST ALGORITHM
873	Research on the scale of electric bus charging station based on single line dispatching
881	Impact of Lane-Changing Behavior on Surrounding On-Line Bus Stops Based on Cellular Automation Model
882	Study on the Structure of Chinese Road Intelligent Transportation System
884	POLICY SOLUTIONS FOR TRANSPORTATION-RELATED PROBLEMS IN KABUL; LESSONS FROM MAJOR CITIES OF CHINA AND INDIA
895	Modeling bicycle volume: a focus on nonlinearity
906	Research on Macroscopic Model of Mixed Heterogeneous Traffic Flow between Artificial and Automatic Driving
910	Large-scale Origin-Destination Travel Time Reliability Modeling with Freeway Toll Collection Data: Case Study in Jilin Province
924	Short-Term Vehicle Arrival Distribution Verification of Expressway Toll Stations Based on ETC Traffic Flow
927	Site selection of integrated urban-rural passenger transport hubs by using combined approach of plant growth simulation and genetic algorithm
933	Analysis of the Influence of the Opening of Residential Quarters on the Traffic Flow of Surrounding Roads

936	A Multi-Floor Route Planning Method for Underground Parking Lots with Separating Pedestrians and Vehicles
947	Signal Coordination Method of Urban Trunk Considering Lateral Traffic Volume
971	Ship Selection Using Dynamic Weight SIR Under Uncertainty
981	Research on traffic congestion mechanism on urban expressways based on asymmetry driving behaviors
982	The shortest path algorithm considering the delay of intersections
987	Urban Road Network Planning Based on Supply and Demand Balance Model
989	Identification of Traffic Status on Signalized Intersections Using Travel Time Data
999	Optimized Component Learners Diversity of Traffic State Forecasting Model With Multimode Perturbation
1010	Demand Structure Analysis for Urban Traffic Using Automatic License Plate Recognition Data
1022	Research on the linkage of China urban road planning and environmental target
1027	Congestion Pricing in the Era of Autonomous Vehicles
1035	Study on the Improvement of Service Quality of Expressway Service Areas Based on Interpretative Structural Modeling
1081	Urban computing on spatial-temporal resident traveling characteristics and traffic zone redivision using mobile internet big data
1082	ANNUAL AVERAGE DAILY TRAFFIC ESTIMATION USING SPATIAL AUTOREGRESSIVE MODELS WITH CHARACTERISTICS OF BUILT-IN ENVIRONMENT
1089	Optimization method of sharing space-time window at the administrative office unitbased on the disaggregate model
1093	Simulation of Pedestrian Route Choice in Large-Scale Public Space: Shortest-Path vs. Quickest-Path
1097	Optimal Charging Station Locations for Taming Range Anxiety and Routing Detours of Electric Vehicles
1098	A Methodological Framework for Evaluating Disrupted Transportation Networks under Different Information Situations
1099	Balancing bike-sharing system using station level data and POI data
1108	A Deep Neural Network Approach for Evaluating a Large Batch of Transportation Network Scenarios
1112	An intelligent strategy on traffic flow control: a computational graph based frameworkz
1113	The Integration of Public Bicycle and Metro Transit: A Case Study in Suzhou, China
1129	Propose the Charging Station Layout of Electric Vehicles Utilizing Simulated Trajectory
1138	Evaluation of Walk Traffic in Yanta District of Xi'an Based on Internet Data
1144	Research on function expansion and concept innovation of expressway service area based on demand -- Taking Hainan province as an example
1150	Urban Short-term Traffic Flow Prediction Based on Stacked Autoencoder
1152	Study on the determination of spatio-temporal threshold of bicycle connection rail transit in haze under traffic restriction
1157	Research on Lane Change Strategy of Autonomous Vehicle Based on Self-Adaptive Model Predictive Control Method
1199	Research on route planning of bicycle travel based on searching for ecological path
1201	Analysis of factors affecting the travel rate of private car owners' active use of public transport
1205	Study on low-frequency vehicle problems and solutions in Nanjing
1216	Intelligent path strategy based on UCT algorithm and Deep Q-learning
1230	Research on Standardization Evaluation System of Container Port Safety Production Based on Entropy Weight Method
1235	An urban layout optimization approach with integrated consideration of intermodal traffic assignment
1248	Analysis for Joint Impact of Factors Affecting Trams' Segment Travel Speed
1258	Measuring Accessibility to Jobs for the Urban Poor- Case study of Ahmedaba, India

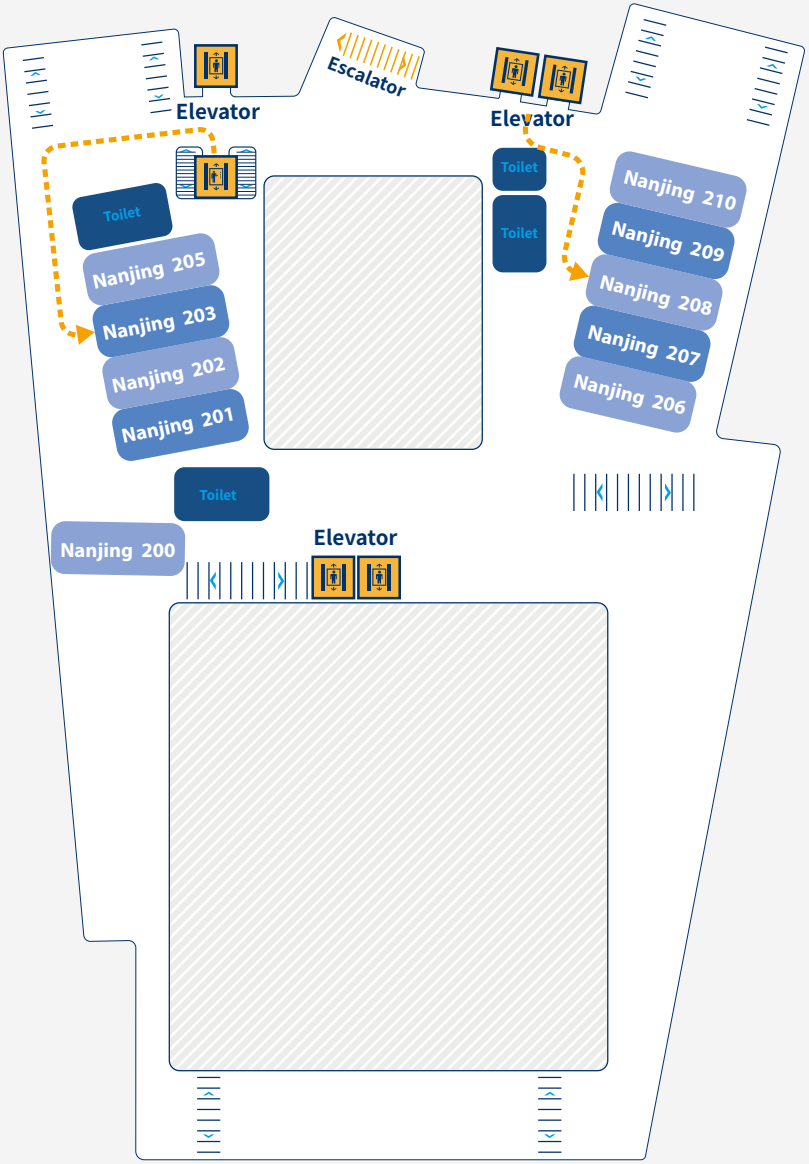
1262	Truck scheduling optimization of Container Terminals based on reservation feedback
1273	Regional Differentiated Development Strategy and Model of Transportation Finance – Case Study
1279	Intelligent Optimization of Ticket Fare for China High-speed Railway
1311	The Study of Travel Characteristics and Management Countermeasures of Winter Cities
1316	Spatial and temporal distribution model for travel OD based on multi-source data
1324	Impacts of Intermodal Connection by Bicycle on service coverage of Urban Rail Transit
1340	Study on the Traffic Micro-circulation of an Urban Commercial Complex
1342	Research on multi-objective optimization method for flexible customized bus lines
1350	Risk Assessment Model of Unfavorable Weather Expressway Operation Based on Dynamic Bayesian Network
1363	Study on Evaluation System of Tourism Transportation Network Structure in County Region
104	The Status Quo, Challenges and Policy Recommendation of Transport Barrier-Free Environment Development in China
118	Evaluate the Impact of License Plate Restriction Policy to Urban Traffic using Taxi GPS Data: A Case Study of Chengdu
243	Analyzing the Implementation of the Policy of Online Car-hailing Based on a Structural Equation Model
275	Enlightenment from the Development of Comprehensive Transport in China's State-Level New Areas to Xiongan New Area
304	Study of Factors Impacting on Passenger Satisfaction with High-Speed Train Based on Structural Equation Modeling
455	Investigating the impacts of congestion pricing on travel mode choice behavior combing the automobile use habit heterogeneity
725	Research on the development of urban online-booked car types based on System Dynamics
752	Exploring the impact of social economic variables on traffic safety in China: A multivarate time-series study
792	Effects of Truck Age on Frequency of Truck Crashes Due to Mechanical Failure: A Case Study in the United States
827	Analyzing connectivity of cycle lane network based on public-bikes' trajectories
880	Research on land concession policy of underground parking lot based on cost-benefit analysis
931	Research on Online Car-hailing Service Quality Evaluation Based on SERVQUAL
959	A Comparative Study of Pricing Strategy on the International Standard Container Transportation
990	COMPARISON OF WALKING AND CYCLING TO SCHOOL IN UNITED STATES: EVIDENCE FROM NHTS 2017 AND 2009 DATA
1039	Research on the Positive Influence of the Traffic Policy under the Urban Planning system on the Motor Vehicle Sharing Travel
1051	A Method based on CHAID to Verify the Disadvantaged Travelers Considering Travelers' Socio-economic and Travel Characteristics
1056	TRAFFIC CRASH FORENSIC ANALYSIS BASED ON UNIVARIATE FEATURE SELECTION
1075	One-Belt-One-Road policy implication on logistics route competition: Case study of China-Germany trade
1106	Research on Differentiation of Urban Taxi Development
1111	Taxi to Fill the Gaps in Regional Transportation: Three Policies in Jeju, South Korea
1116	The influence of Peak-hour shifting incentives on subway commuters' commuting behavior in Beijing
1118	Evolutionary Game Analysis on Supervision and Governance for Road Traffic Violations Considering Public Participation
1240	Estimated OD matrix based on multipath choice model by using urban traffic flow
1290	Study on Comprehensive Traffic Efficiency of Zoning System in Urban Central Area:A Case Study of Suzhou in China
1336	Research on Railway Public Welfare Transport Compensation Mechanism
1359	Business Development Evaluation Based on Shapley Value in the Background of Lianyungang Port Integration

General Information

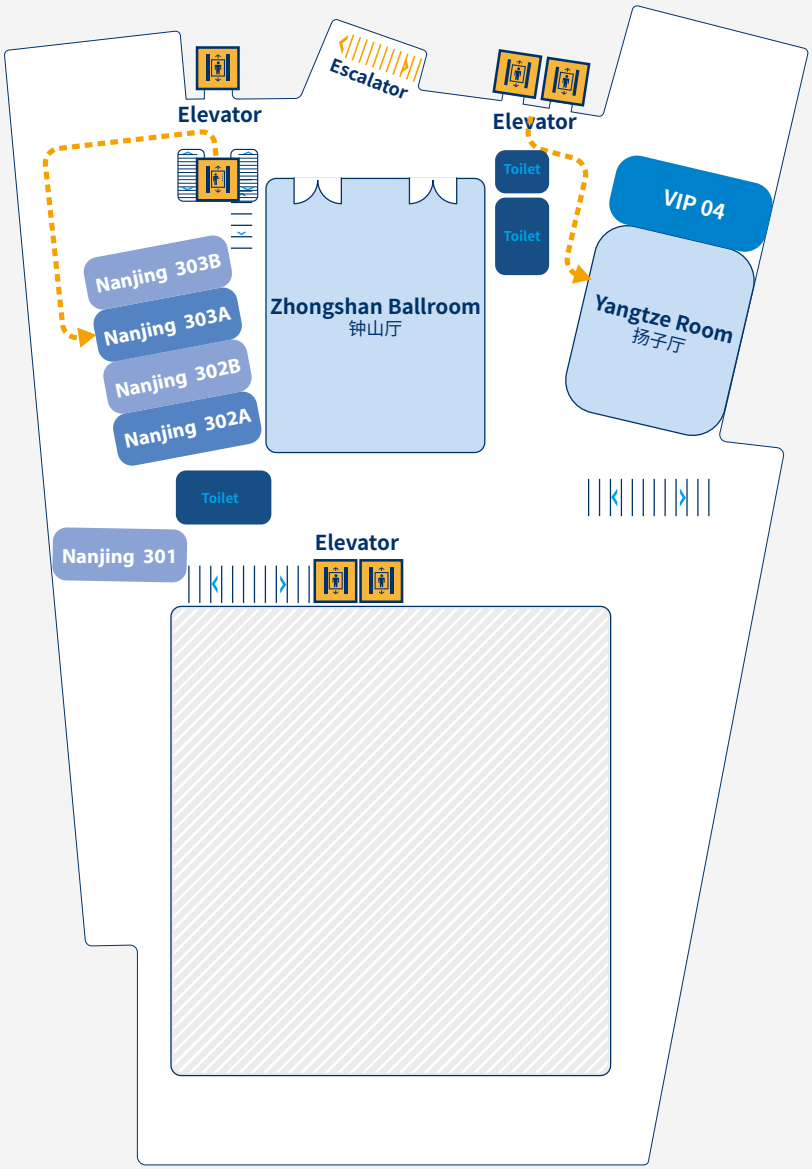
Conference Venues & Maps



Floor Plan 1F
一层平面图



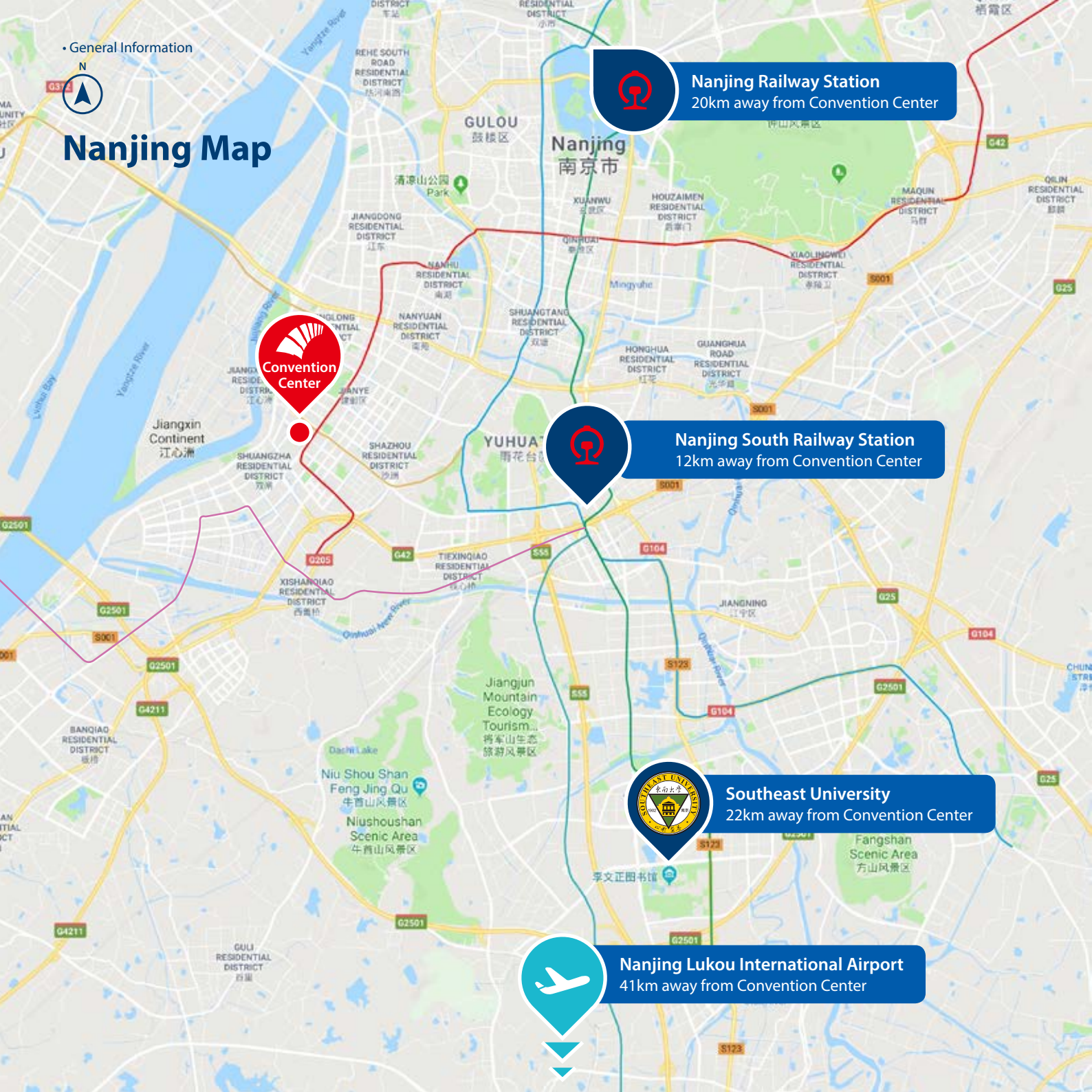
Floor Plan 2F
二层平面图

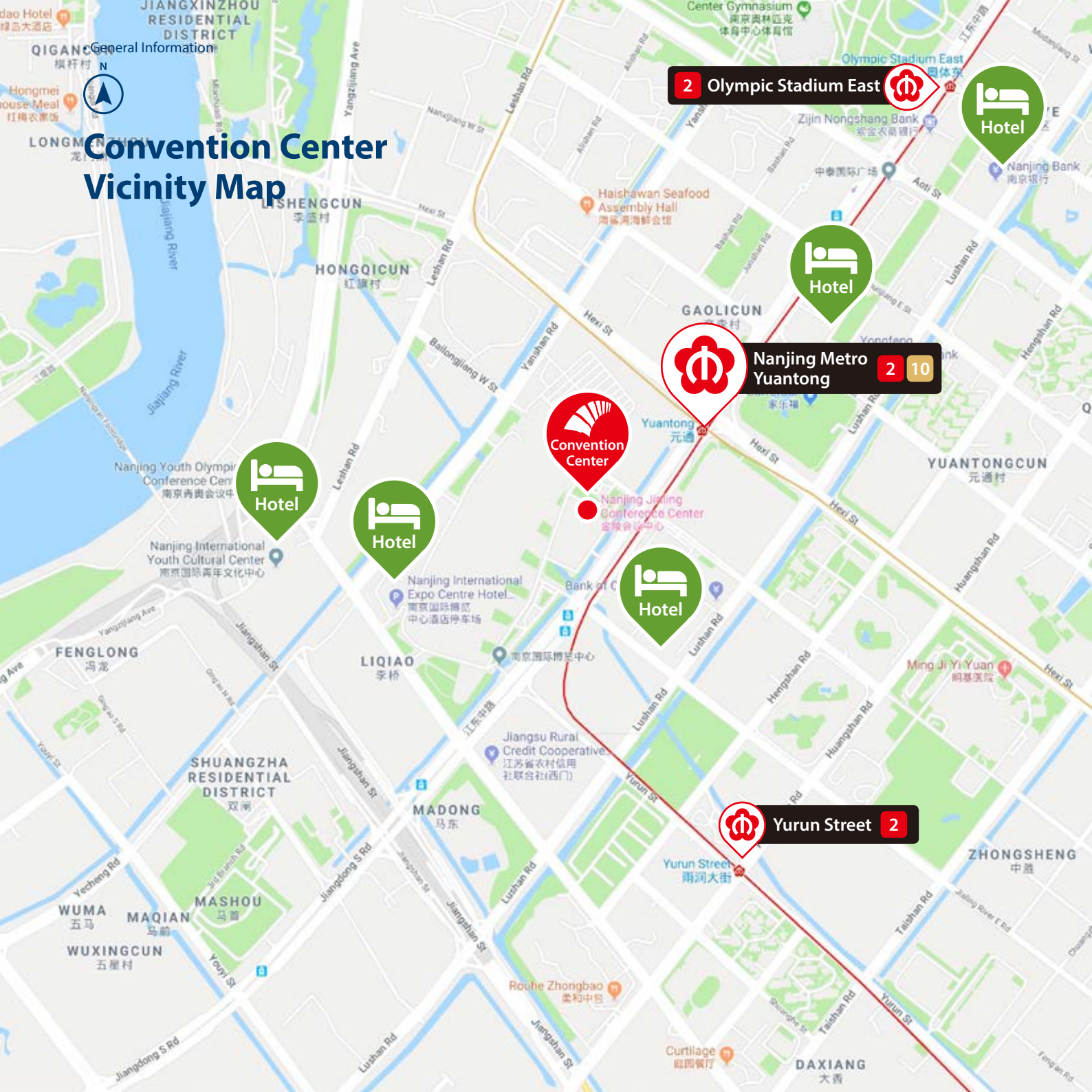


Floor Plan 3F
三层平面图

• General Information

Nanjing Map




General Information
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Convention Center Vicinity Map
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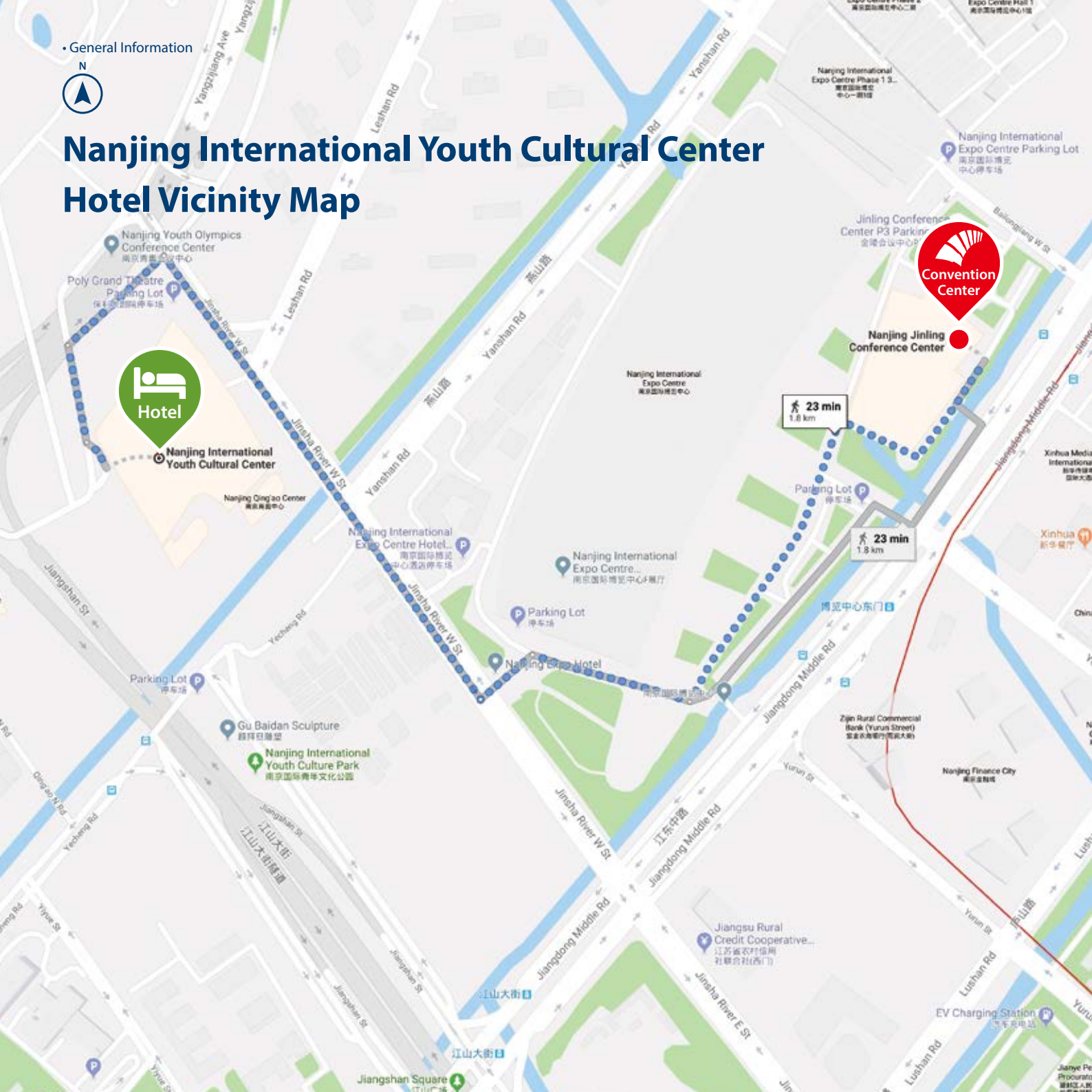
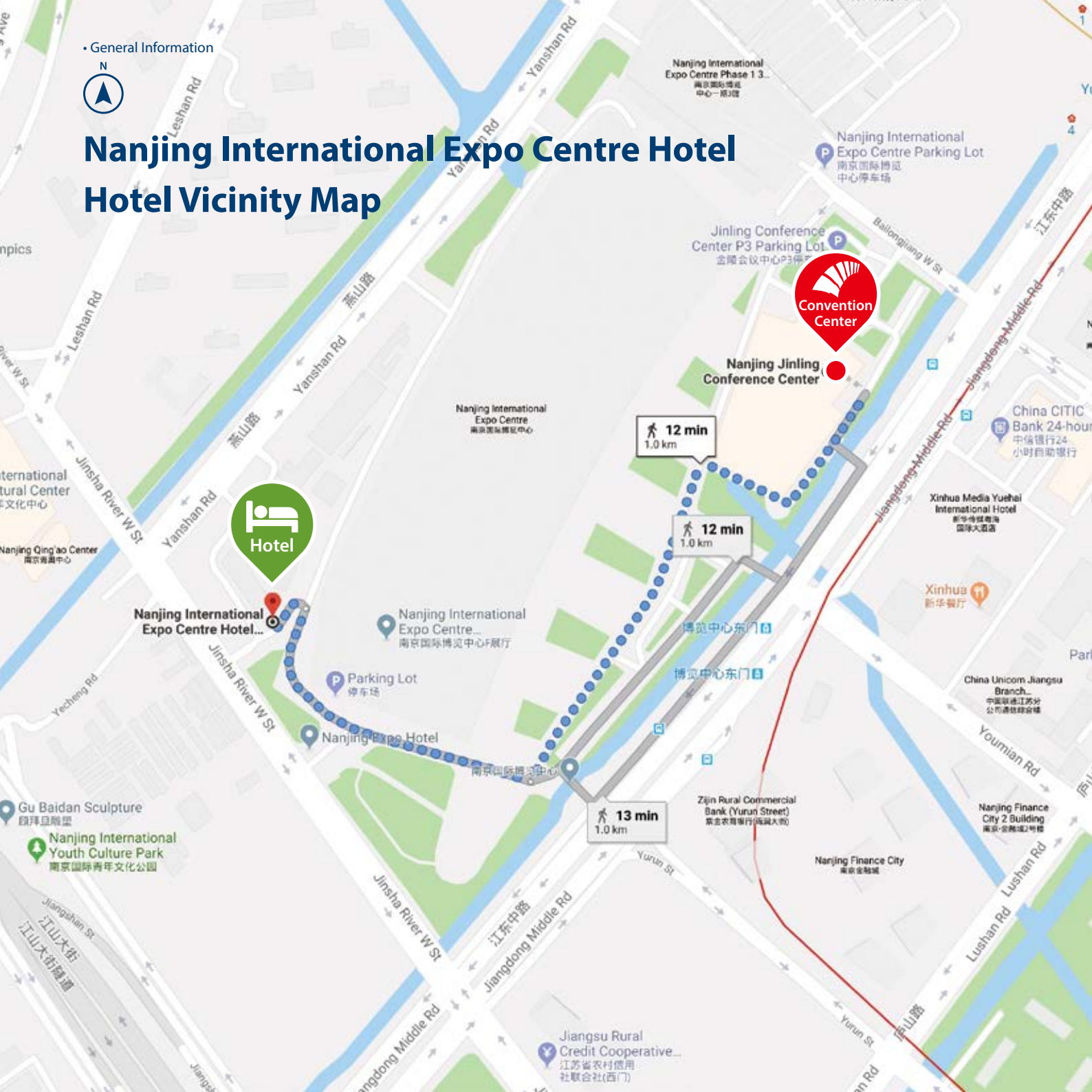
Yurun Street 2
JIANGXINZHOU RESIDENTIAL DISTRICT
QIGANG
LONGMEN
LISHENGCUN
HONGQICUN
GAOLICUN
YUANTONGCUN
FENGLONG
LIQIAO
SHUANGZHA RESIDENTIAL DISTRICT
MADONG
ZHONGSHENG
WUMA
MAQIAN
MASHOU
WUXINGCUN
DAXIANG
Jiajiang River
Olympic Stadium East
Zijin Nongshang Bank
Nanjing Bank
Haishawan Seafood Assembly Hall
Yuantong
Nanjing Youth Olympic Conference Center
Nanjing International Youth Cultural Center
Nanjing International Expo Centre Hotel
Nanjing Jiaqing Conference Center
Jiangsu Rural Credit Cooperative
Ming Ji Yi Yuan
Yurun Street
Roubo Zhongbao
Curtilage
Leshan Rd
Yanshan Rd
Hexi St
Lushan Rd
Hengshan Rd
Huangshan Rd
Jiangshan St
Jiangdong S Rd
Taishan Rd
Aoti St
Yurun St

Nanjing International Youth Cultural Center Hotel Vicinity Map



Nanjing International Expo Centre Hotel

Hotel Vicinity Map



Conference Registration

Conference registration desk is located in the lobby of Conference Rooms. Registration can be made at July 5, 10:30-23:00, and July 6-8, 7:30 – noon.

Conference Banquet

The conference banquet is held in Zhongshan Ballroom (钟山厅), Saturday, July 6, 19:00 – 20:30.

Conference Buffet Lunch

A buffet lunch is provided on Saturday and Sunday, July 6-7, 12:00 – 13:30 to all registered conference participants in Zhonghua Exhibition Hall B (中华厅 B).

Farewell Luncheon

The farewell lunch is held in Zhongshan Ballroom (钟山厅), Monday July 8, 12:30. A brief closing ceremony will take place, followed by an award ceremony and a handover ceremony from the CICTP 2019 organizers to the CICTP 2020 organizers.

Conference Secretariat

Dr. Xiao Fu, Associate Professor, Southeast University

Phone: +86 186 5207 0293

The conference secretariat, based in Southeast University, provides additional support to all participants. If you have any questions or concerns during the conference, please do not hesitate to contact the conference secretariat.

Conference Speakers & Organizers

Anthony CHEN

Ph.D.

Professor
Hong Kong Polytechnic University
Department of Civil and Environmental Engineering
+852 3400-8327
anthony.chen@polyu.edu.hk
www.polyu.edu.hk/cee/people/anthony.chen/

Dr. Anthony Chen is a Professor in the Department of Civil and Environmental Engineering at the Hong Kong Polytechnic University (PolyU) in Hong Kong. Prior to joining PolyU, Dr. Chen was a Professor in the Department of Civil and Environmental Engineering and Head of the Transportation Division at Utah State University in the United States for seventeen years. Dr. Chen was a recipient of the prestigious Faculty Early Career Development (CAREER) Award from the National Science Foundation (NSF) in 2002 and the Chang Jiang Chair Professor from China in 2015. Dr. Chen is currently serving as an associate editor for Transportmetrica A: Transport Science, Networks and Spatial Economics, and Journal of Advanced Transportation, and an editorial board member of Transportation Research Part B: Methodological.

Ali HAGHANI

Ph.D.

Professor
Department of Civil and Environmental Engineering
Director of International Affairs
A. James Clark School of Engineering
University of Maryland – College Park
College Park, MD 20742, USA
+1 301-405-1963
haghani@umd.edu

Dr. Ali Haghani is a Professor of Civil Engineering at the University of Maryland. He was the Department Chairman from Fall 2003 through Fall 2013. Dr. Haghani is an expert in Intelligent Transportation Systems, freight transportation and logistics, emergency response, dynamic fleet management, real time network optimization, mass transit operations, and traffic data collection, analysis and evaluation. Dr. Haghani has over thirty years of experience in research and education as well as vast experience in managing research programs and administrative expertise. He has over 200 publications in archival journals, in refereed conference proceedings and as research reports. Dr. Haghani has served as the chairman of the TRB Committee on Transportation Network Modeling. He has also served as a member of the Editorial Advisory Board of Transportation Research and is currently Associate Editor of the Journal of Intelligent Transportation Systems.

Alireza KHANI
Ph.D.

Assistant Professor
University of Minnesota
500 Pillsbury Dr. SE, Minneapolis MN, USA 55455
+1 612-624-4411
akhani@umn.edu
www.cege.umn.edu/directory/faculty-directory/khani.html

Dr. Alireza Khani's research is on equilibrium modeling, routing algorithms, and system optimization in the context of multimodal transportation networks for evaluation of current and future transportation systems with autonomous vehicles and shared mobility services. His other research is on transit planning and operations using automatically collected transit data. His research is sponsored by National Science Foundation, US Department of Transportation, and Minnesota Department of Transportation. He has received his PhD in Civil Engineering from the University of Arizona and worked as a postdoctoral researcher at University of Texas at Austin.

Asad KHATTAK
Ph.D.

Beaman Professor
Transportation Program Coordinator, University of Tennessee, Knoxville
322 John D. Tickle Building, The University of Tennessee, Knoxville, TN 37996-2313, USA
+1 865-974-7792
akhattak@utk.edu
akhattak.engr.utk.edu

Dr. Asad J. Khattak is Beaman Distinguished Professor of Civil & Environmental Engineering at The University of Tennessee, Knoxville. He serves as the Coordinator for the Transportation Group in the Department, and is Associate Director for the Collaborative Sciences Center for Road Safety—a National University Transportation Center devoted to safety. Dr. Khattak's research focuses on various types of innovations related to intelligent transportation technologies, transportation safety, and sustainable transportation. Dr. Khattak received his Masters and Ph.D. degrees in Civil Engineering from Northwestern University. Dr. Khattak is Editor of Science Citation Indexed Journal of Intelligent Transportation Systems, with a 2-year impact factor of 2.164, and Associate Editor of International Journal of Sustainable Transportation (IF = 1.892).

Amelia REGAN
Ph.D.

Professor
Computer Science and Transportation Systems Engineering
University of CA, Irvine
Department of Computer Science, Irvine CA, 92697, USA
+1 949-824-2611
aregan@uci.edu
faculty.sites.uci.edu/aregan/

Amelia Regan is a Professor of Computer Science and Transportation Systems Engineering at the University of California, Irvine. Her research interests include dynamic and stochastic network optimization, optimal contracting, logistics systems, sensor and vehicular networks, connected and automated vehicles, pedestrian and cyclist safety, and mitigation of environmental impacts of transportation systems. A graduate of the University of Pennsylvania, Regan later earned an MS in Applied Mathematics from the Johns Hopkins University, and MSE and PhD degrees in Civil Engineering from the University of Texas, Austin.

Bjorn BIRGISSON
Ph.D.

TEES Eminent Professor
Zachry Dept. of Civil Engineering, Texas A&M University
3136 TAMU, College Station, TX 77843-3136
+1 979-412-1489
Bjorn.Birgisson@tamu.edu
engineering.tamu.edu/civil/profiles/birgisson-bjorn.html

Dr. Bjorn Birgisson currently serves as a TEES Eminent Professor in the Zachry Department of Civil Engineering at Texas A&M University. Formerly, he served as the inaugural Director of the Center for Infrastructure Renewal. He has published over 200 technical papers in journals and proceedings and been a Principal Investigator or Co-Principal Investigator of over 54 million dollars in research funding during his academic career. Prior to joining Texas A&M, he served as a Pro Vice-Chancellor for Aston University and the Executive Dean for the School of Engineering and Applied Science and Chaired Professor of Transport Science at Aston University from January 2014 to August, 2016. Prior to that, Dr. Bjorn Birgisson was the vice president responsible for research and Chaired Professor of Highway and Railway Engineering at the KTH Royal Institute of Technology in Stockholm, Sweden. Dr. Birgisson has served on over 20 boards of centers, institutes and companies during the last 10 years. Dr. Birgisson led the creation of the TRB Task Force (AFN15T) for Nanotechnology-Based Concrete, the RILEM Technical Committee on Nanotechnology for Bituminous Materials, and most recently co-established the new Academy for Pavement Science and Engineering (APSE), which includes over 40 universities from all over the world, for which he serves on the executive board.

Biyu CHEN

Ph.D.

Professor
Wuhan University
129 Luoyu road, Wuhan, China
+86 13037162973
chen.biyu@whu.edu.cn
www.lmars.whu.edu.cn/index.php/js/813.html

Dr. Bi Yu Chen is a full Professor at State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University, China. His major research interests span GIS for Transportation, Spatiotemporal Big Data Analytics, Intelligent Transportation Systems, Transport Geography, Urban Geography and Urban Information System. He is the author of about 40 articles in the leading journals of Geography, GIS and Transportation fields, such as Annals of AAG, IJGIS, TRA and TRB. He is also the Associate Editor of Transportmetrica B (2016 -).

Baoshan HUANG

Ph.D.

Edwin G. Burdette Professor
University of Tennessee
419 John D. Tickle Building, Knoxville, TN 37996
+1 865-974-7713
bhuang@utk.edu

Dr. Baoshan Huang joined the faculty of the Department of Civil and Environmental Engineering at the University of Tennessee in January 2002. His research areas include pavement material characterization, transportation infrastructure asset management and resilient pavement design.Over the last eighteen years of his professional career, Huang has secured over 6.5 million dollars of research funding to support his research activities and published over 100 peer reviewed journal papers. Currently, he serves as associate editors for several SCI-indexed journals. He is registered as a professional engineer in Louisiana.

Bin RAN

Ph.D.

Professor and Director
Institute on Internet of Mobility
Southeast University and University of Wisconsin-Madison
Room 1318, School of Transportation, SEU
No.2 Southeast University Road,
Jiangning, Nanjing, 211189, P.R. China
+86 25-83795356
bran@seu.edu.cn

Vilas Distinguished Achievement Professor
Director of Wisconsin ITS Program
Director of Connected Automated Transportation Program
Department of Civil & Environmental Engineering
University of Wisconsin at Madison
1415 Engineering Drive, Madison, WI 53706, USA
+1 608-262-0052
bran@wisc.edu
directory.engr.wisc.edu/cee/Faculty/Ran_Bin/

Dr. Bin Ran serves as the Director of the Joint Research Institute on Internet of Mobility, founded by Southeast University, China and University of Wisconsin at Madison (UW). Dr. Ran is the Vilas Distinguished Achievement Professor and Director of ITS Program at the University of Wisconsin at Madison. He also served as the Director of the Traffic Operations and Safety Lab (TOPS) at the University of Wisconsin at Madison. Dr. Ran holds the title of National Distinguished Expert in China.

Dr. Ran is an expert in dynamic transportation network models, traffic simulation and control, traffic information system, Internet of Mobility, and Connected Automated Vehicle Highway (CAVH) System. He has led the development and deployment of various traffic information systems and technologies in the US and China. He has trained younger generations of professors and experts in traffic engineering and Intelligent Transportation Systems (ITS) in the US, China, Korea, and other countries.

Dr. Ran is the author of two leading textbooks on dynamic traffic networks. He has co-authored more than 210 journal papers and more than 260 referenced papers at national and international conferences. He co-authored 6 books on intelligent highways in China. He holds 3 US patents and 12 Chinese patents, and has more than three dozen patents pending in the US, China, and other countries. He is an associate editor of Journal of Intelligent Transportation Systems. He is the Founding President of Chinese Overseas Transportation Association (COTA) from 1996 to 1998.

Earlier in his career, Dr. Ran held positions at the Massachusetts Institute of Technology and the University of California at Berkeley. He is active in the Transportation Research Board and Intelligent Transportation Society of America. Dr. Ran received his PhD from the University of Illinois at Chicago in 1993, his MS from the University of Tokyo in 1989, and his BS from Tsinghua University in 1986.

Bo TIAN
Ph.D.

Research Scientist
Research Institute of Highway, Ministry of Transportation
8 Xitucheng Road, Haidian District, Beijing, China
+86 10-62079162
b.tian@rioh.cn

Dr. Bo Tian was born in China in 1973. He holds the B.S. and M.S. degrees from Harbin Institute of Technology and Ph.D. degree from Tongji University. He has been working on concrete pavement-related issues in Research Institute of Highway, Ministry of Transportation in China since 2001. He was a visiting scholar at Technische Universität München during 2008 to 2009. Dr. Bo Tian devotes himself in the developing of concrete pavement technologies in China through research, consulting and organizing professional conferences and seminars. Ha has over 100 publications in the area of sustainable, durable concrete materials and pavement. He has hosted over 50 projects from NSFC, Ministry of Transportation, and DOTs in many provinces. His research interests also extend to functional concrete pavements, modified cement concrete pavement and ballastless track plate in high-speed rail engineering recently.

Changfa AI
Ph.D.

Professor, Vice-director of Graduate School of SWJTU
School of Civil Engineering of SWJTU
Erhuanlu Beiyiduan 115#, Chengdu, Sichuan, China
+86 13678097261
cfai@home.swjtu.edu.cn

Dr. AI' researches mainly focus on the design theory and method of pavement structure, new asphalt material and its application technology. In recent years, he is mainly engaged in the interface bonding characteristics of pavement, special pavement technology in cold plateau area and new high visco-elastic modified asphalt and its mixture. Till now, he has completed nearly 30 research projects as the project leader or participant, published more than 60 research papers, including 12 SCI papers, 14 EI papers, and obtained 4 invention patents and 8 utility model patents, and received 4 scientific awards. Also, he participated in writing and editing the technical code of railway waterproof asphalt mixture, and the textbook of Introduction of Civil Engineering

Charles W. SCHWARTZ

Ph.D.

Professor and Chair
University of Maryland
Department of Civil and Environmental Engineering, College Park, MD USA 20742, USA
+1 301-405-1962
schwartz@umd.edu
user.eng.umd.edu/~schwartz/faculty/Welcome.html

Dr. Charles W. Schwartz is a Professor and Chair of Civil and Environmental Engineering at the University of Maryland College Park. His teaching and research activities encompass pavement design and analysis, advanced soil mechanics, computational geomechanics/pavement mechanics, and material characterization and constitutive modeling. He has played leadership roles in many national research projects and regularly assists federal, state, and local agencies and private firms on pavement-related topics. He is a member of TRB (Immediate Past Chair, AFD80—Pavement Structural Modeling and Evaluation), ASCE (Immediate Past Chair, Geo-Institute Pavements Committee), AAPT, and ISAP and serves on the editorial boards of the International Journal of Pavement Engineering and Transportation Geotechnics. He is a co-developer of the NHI course Geotechnical Aspects of Pavements.

Changjun WANG

Professor & Director
Traffic Management Research Institute of the Ministry of Public Security
Wuxi, Jiangsu, China
Phone: +86 13806195432
E-Mail: Wcj121@sina.com

Changjun Wang, the director of the Traffic Management Research Institute of the Ministry of Public Security, a deputy leader of the National Team for Prevention of Traffic Accidents. graduated from Nanjing Institute of Technology (Southeast University) in 1985, majoring in radio technology. Wang has been engaged in the research, design development and project implementation in road traffic safety, traffic control and intelligent transportation, traffic management information system. Wang has successively presided over 10 National High-Tech Research and Development Program, obtained 2 second prizes for national science and technology progress: Key Technology and Application of Expressway Monitoring and Warning and Public Security Traffic Safety Law Enforcement, Equipment Development and Engineering Application of Urban Transportation System Management and Control. The research results have been applied across the country, and have made important contributions to the development of science and technology for traffic management and industrial progress in China.

Chaozhong WU
Ph.D.

Professor
Wuhan University of Technology
No. 125 mailbox, 1178# Heping Road, Wuchang District, Wuhan, China
+86 13349878361
wucz@whut.edu.cn
wts.whut.edu.cn/dwjs/201904/t20190419_362747.shtml

Professor Wu is currently the President Assistant of Wuhan University of Technology, he is also the director of the Youth Transportation Committee of the China Communications and Transportation Association, the member of the China Intelligent Transportation Association, the member of the National Intelligent Transportation System Standardization Committee, the editor and president of the Journal of Traffic Information and Security. In 2002, he graduated from Wuhan University of Technology, majoring in transportation engineering, and obtained the doctor's degree. From September 2006 to August 2007, he was sponsored by China Scholarship Council (CSC) to study in Regina University of Canada for one year. Professor Wu has in changed of over more than 10 projects such as the National High Technology Research and Development Program, the National Natural Science Foundation, and the National Key Projects in the Science & Technology of China. In recent years, he has published 68 academic papers, 47 of which have been retrieved by SCI/EI. He applied for 18 patents for invention (14 authorization), and obtained 5 scientific research awards.

Chengcheng XU
Ph.D.

Associate professor
Southeast University
Si Pai Lou #2, Nanjing, Jiangsu 210096, China
+86 13801580045
xuchengcheng@seu.edu.cn
tc.seu.edu.cn/2017/0825/c860a194055/page.htm

Dr. Chengcheng Xu received a B.S. degree from the Southeast University in 2008, a M.E. degree from the Southeast University in 2010, and a Ph.D. degree in transportation engineering from the Southeast University in 2014. Xu's research interests include traffic safety, traffic environment and intelligent transportation systems. He has been the leading PI of more than ten high-level research projects. He has published more than sixty SCI/SSCI indexed journal papers. He is the recipient of the first award of technology innovation granted by China Ministry of Education, the first award of transportation science and technology granted by the China Highway and Transportation Society, the National Excellent Doctoral Dissertation in ITS area, and the Excellent Doctoral Dissertation of Jiangsu Province.

Chi XIE
Ph.D.

Professor
School of Transportation Engineering, Tongji University
Tongji University, Shanghai, 201804, China
chi.xie@tongji.edu.cn

Prof. Chi Xie is currently a Professor in the School of Transportation Engineering at Tongji University and has been teaching at University of Texas at Austin, Shanghai Jiaotong University and Tongji University over the past decade. His main research areas include transportation network management and control, travel demand analysis and forecasting, and freight transportation and logistics systems, in which his research interest is focused on developing innovative methods to analyze and optimize large-scale urban and regional systems on the strategic and tactic levels. Over past years, his research activities have been sponsored by the U.S. National Science Foundation, National Natural Science Foundation of China, Ministry of Science and Technology of China, Ministry of Education of China, China Recruitment Program of Global Experts and other domestic and international funding sources; his research results have been published in more than 90 journal and conference papers, book chapters, and technical reports, a half of which are SCI-indexed journal papers.

Prof. Chi Xie is a 2005 champion of the Richard E. Rosenthal Competition sponsored by the U.S. Military Operations Research Society, a 2006 recipient of the John E. Perry Prize granted by Cornell University, a 2013 recipient of the Young 1000-Talent Award from the China Recruitment Program of Global Experts, a 2014 UNSW Visiting Professorial Fellow from University of New South Wales, a 2017 Outstanding Young Scholar of Frontiers of Engineering in China and an elected speaker of the 5th China-America Frontiers of Engineering Symposium from the Chinese Academy of Engineering and U.S. National Academy of Engineering, and a 2018 recipient of the Best Paper Award from World Transport Convention. Currently, he serves as an appointed Associate Editor of International Journal of Transportation Science and Technology (IJTST) and an Editorial Board Member or Guest Editor of three other journals, the Chair of the Freight Transportation Planning and Logistics Committee and Waterborne Logistics Optimization and Management Committee of World Transport Convention (WTC), a Member of the Freight Transportation Planning and Logistics Committee of Transportation Research Board (TRB), and an Advisory Committee Member of the South China Transportation and Logistics Development Research Center.

Changjun ZHOU
Ph.D.

Associate Professor
Dalian University of Technology
2 Linggong St., Dalian, FL
+86 451-84707761
zhouchangjun@dlut.edu.cn
faculty.dlut.edu.cn/zhouzhangjun/en/index.htm

Dr. Changjun Zhou research area includes pavement structure design, paving material characterization, paving material durability, etc. In recent five years, he has published 25+ SCI-Indexed journal papers. He earned Scientific and Technological Progress 1st Award as the fourth scholar. He got financial supports from NSFC, China Postdoctoral Science Foundation, and enterprises. He is served as members in academic organizations, including ASCE bituminous materials committee, TRB AFD50 rigid pavement design, China Highway and Transportation Society. He is an expert reviewer for China Ministry of Science and Technology. He is the co-chair of comittee of pavement inspection, evaluation, and rehabilitation in the branch of pavement inspection and maintainence in pavement engineering in the World Transportation Convention. He is now a reviewer in ASCE Journal of Materials in Civil Engineering, ASCE Journal of Transportation Engineering, Part B: Pavements, Elsvier Construction and Building Materials, Journal of Cleaner Production, etc.

Chunzhi Zhang

Vice President
China Transportation Association
315 Guanganmen Road, Beijing, China
+86 10 63691431

Ms Chunzhi Zhang is Vice President of China Transportation Association, Guest Professor of Civil Aviation University of China, former Secretary of the CCP Committee of the Operation Monitoring Center of Civil Aviation Administration.

Darcy BULLOCK

Ph.D.

Lyles Family Professor
Civil Engineering and Joint Transportation Research Program Director
Purdue University
207 S. Martin Jischke Drive
West Lafayette, IN 47907-1971, USA
+1 765-479-0310
darcy@purdue.edu
tinyurl.com/yc8clvlu

Dr. Darcy Bullock is the Lyles Family Professor of Civil Engineering at Purdue University and serves as the director of the Joint Transportation Research Program (JTRP). Bullock is a Registered Professional Engineer in Indiana and has 25 years of experience in the industry working closely with transportation agencies, airports and private sector partners. Bullock's teaching, research and consulting interests have been in the general area of connected vehicles, traffic signal performance measures, transportation systems and implementation of advanced technology. He received a B.S. in Civil Engineering from the University of Vermont, and a M.S. and a Ph.D. in Civil Engineering from Carnegie Mellon University.

Degou CAI

Ph.D.

Deputy Director
Railway Engineering Research Institute
China Academy of Railway Sciences, Beijing China
+86 13810285950
caidegou@126.com

Dr. Degou Cai, research fellow, is the deputy director of the Railway Engineering Research Institute. He is engaged in the theoretical and technical research work of high-speed railway subgrade engineering, and he has achieved innovative achievements in the high-speed railway subgrade structural technical standard system and BIM-based subgrade information monitoring. He organized or participated in compilation of 8 specifications, such as Technical Regulations For Monitoring Frost Heave Of Seasonal Frozen Ground In High-speed Railway. He has be authorized more than 20 patents for invention.

David LEVINSON
Ph.D.

Professor
University of Sydney
Sydney, Australia
+61 0 2 8627 6136
david.levinson@sydney.edu.au
transportist.org

Prof. David Levinson teaches at the School of Civil Engineering at the University of Sydney, where he leads TransportLab and the Transport Engineering group. He held the Richard P. Braun/CTS Chair in Transportation (2006-2016) at the University of Minnesota. Levinson has authored or edited several books, including

- A Political Economy of Access
- Elements of Access,
- Spontaneous Access,
- The End of Traffic and the Future of Access,
- The Transportation Experience, and
- Metropolitan Transport and Land Use: Planning for Place and Plexus.

He won the 2005 CUTC/ARTBA New Faculty Award. He earned a Ph.D. from the University of California at Berkeley in 1998.

Daxin TIAN
Ph.D.

Professor
Beihang University
No.37 Xueyuan Road, Beijing, China
+86 18701358028
dtian@buaa.edu.cn

Dr. Daxin Tian is a professor and the vice dean in the School of Transportation Science and Engineering, Beihang University, Beijing, China. He is awarded by Young Scholars of the Yangtze River and National Outstanding Youth Science Foundation. He has authored/co-authored about 100 journal/conference papers and book chapters. His current research interests include connected vehicles, vehicular ad hoc networks, swarm intelligence, and intelligent transportation systems. He is a senior member of IEEE, CCF and ITSC. He is serving on the editor in chief of International Journal of Smart Vehicles and Smart Transportation, the editorial board of Journal of Intelligent and Connected Vehicles.

Dawei WANG
Ph.D.

Professor
Harbin Institute of Technology
Heilongjiang Province
dawei.wang@hit.edu.cn
homepage.hit.edu.cn/isacwang

Prof. Dawei Wang is the professor and doctoral supervisor in the School of Transportation Science and Engineering at Harbin Institute of Technology. He graduated from Department of Civil Engineering in Tsinghua University in 2003. In 2007 and 2011 he received his Diploma's and Doctor's degree in RWTH Aachen University, respectively. He served as the senior research engineer of the Institute of Highway Engineering in RWTH-Aachen University and the leader of the group of "Pavement Analysis and Modelling" from 2011 to 2016. By 2016, he has been promoted to the professor and director of Institute of Highway Engineering (W2), the director of the Road-Materials Testing Center in University Siegen in Germany. In 2017, he was granted Habilitation based on the research and effort he contributed to highway engineering in Germany. The same year, he was granted the Young Scientist by Harbin Institute of Technology. His research interests and expertise focus primarily on asphalt pavement skid resistance, multi-scale characterization of the asphalt pavement mechanical behavior and functional pavement theory and technology. So far, he has directed or participated in more than 24 government-aided scientific research projects. Over the last years, he has published nearly 150 academic publications including more than 80 SCI indexed papers.

Dianhai WANG
Ph.D.

Professor
Institute of Intelligent Transportation Systems, Zhejiang University
Room 720, Anzhong Building, 866 Yuhangtang Road, Hangzhou, China
+86 13805791428
wangdianhai@zju.edu.cn
person.zju.edu.cn/en/0010034

Professor Dianhai Wang is currently a Full Professor and Director of Institute of Intelligent Transportation Systems in College of Civil Engineering and Architecture, Zhejiang University, Hangzhou, China. As a Principal Investigator, he has led 1 project of the Key Science and Technology Innovation Team (on ITS) of Zhejiang Province, 13 projects funded by the National Natural Science Foundation of China. He has held more than 30 patents of invention and won many rewards in the field of transportation including National Science and Technology Progress Award. He is one of the first candidates of National Hundred, Thousand and Ten Thousand Talent Project.

Di ZHANG
Ph.D.

Professor
ITS Research Center
Wuhan University of Technology
1178 Heping Avenue, Wuhan, China
+86 27 86589905
zhangdi@whut.edu.cn
wts.whut.edu.cn/dwjs/201904/t20190419_362741.shtml

Di Zhang is Professor and Director of Intelligent Transportation Systems Research Center (ITSC) of Wuhan University of Technology, Vice Director of National Engineering Research Center for Water Transport Safety (WTS Center), China. He received his BSc in Navigation Technology, MSc in Traffic Information Engineering & Control and PhD in Vehicle Operation Engineering from Wuhan University of Technology in 2005, 2008 and 2011 respectively. With the financial support from the China Scholarship Council, he was a full time researcher at Liverpool John Moores University from October 2010 to September 2011, and at the Garrick Institute of UCLA from July to September 2017. Dr. Zhang's major research interests include risk assessment and decision science applied in marine systems. He is associate fellow of Royal Institute of Navigation (AFRIN).

Enjian YAO
Ph.D.

Professor
School of Traffic and Transportation, Beijing Jiaotong University
No.3 Shangyuancun, Haidian District, Beijing, China
+86 10-51688344
enjyao@bjtu.edu.cn
faculty.bjtu.edu.cn/8318/

Dr. Yao is a professor of Beijing Jiaotong University. He received his Ph.D. degree at Nagoya University. He served as research fellow in ITS Research Center, NEC Corporation up to September 2009. His research interests include transportation planning, intelligent transportation systems, travel behavior analysis, urban rail transit passenger flow analysis, low-carbon transportation technology and policy, etc. He has hosted and participated in over 50 national level, provincial level and enterprise-funded research projects in the past 5 years. He currently serves as the vice-chairmen of the National Teaching Advisory Committee of Traffic Engineering Major in Higher Education Institutions under MOE, the council member of urban transportation Brunch, China Highway and Transportation Society, etc.

Weiguang ZHANG
Ph.D.

Associate Professor, Dean Assistant
School of Transportation
Southeast University
Room 505, Southeast Univ. Rd. #2
Nanjing, Jiangsu, China, 211189
+86 13912956989
wgzhang@seu.edu.cn

Dr. Weiguang Zhang is an associate professor in school of transportation at Southeast University, China. He is the editorial member of journal IJPRT and reviewers for more than 20 SCI journals. Dr. Zhang has led and participated more than 15 research projects funded by NSFC, NCHRP, FHWA, and DoTs. His research areas include paving materials, pavement design and evaluation, and pavement non-destructive test. He has published more than 40 journal and proceeding articles, 5 project reports, and given many invited talks.

Feiyue WANG
Ph.D.

Director
The State Key Laboratory for Management and Control of Complex Systems, Institute of Automation Chinese Academy of Sciences
95 Zhongguancun East Road, Beijing 100190, China
+86 13522537815
feiyue.wang@ia.ac.cn

Professor Fei-Yue Wang received his Ph.D. in Computer and Systems Engineering from Rensselaer Polytechnic Institute, Troy, New York in 1990. Currently, he is the Director of the State Key Laboratory for Management and Control of Complex Systems, Chinese Academy of Sciences. He is EiC of IEEE Transactions on Computational Social Systems, Founding EiC of IEEE/CAA Journal of Automatica Sinica. His current research focuses on methods and applications for parallel systems, social computing, parallel intelligence and knowledge automation.

Feng Xiao
Ph.D.

Professor
School of Business Administration, Southwestern University of Finance and Economics
Southwestern University of Finance and Economics, Chengdu, Sichuan 611130, China
evan.fxiao@gmail.com

Dr. Xiao is currently a professor at the School of Business Administration, and associate dean of the Institute of Big Data of Southwestern University of Finance and Economics. He is the Yangtze River Scholar (Young Scholar) of the Ministry of Education, and currently presides over many national and provincial-level projects such as the Excellent Youth Fund of the National Natural Science Foundation of China. He also enrolled in the Sichuan Province's 100-person plan. Dr. Xiao's research interests include artificial intelligence algorithms and traffic data mining, transportation network modeling and optimization, road pricing, multi-modal integrated traffic system research, and intelligent transportation systems. He has published more than 30 SCI/EI indexed papers in internationally renowned journals and conferences such as Transportation Science, Transportation Research Part A, B, C, D and ISTTT.

Fei YANG
Ph.D.

Professor
School of Transportation and Logistics, Southwest Jiaotong University
No. 111 North Second Ring Road, Chengdu, China
+86 13550025963
yangfei_traffic@swjtu.edu.cn
userweb.swjtu.edu.cn/Userweb/yangfei/index.htm

Professor Yang is the selected expert of New Century Talent Supporting Project by Chinese Education Ministry, dean of the department of traffic engineering, the vice president of Chengdu non-party intellectuals association, and the vice president of regional science association of professional committee of the Yangtze River economic belt research academic committee. He graduated from Tongji University with PHD in 2007 and visited University of Wisconsin-Madison as a research scholar in 2011. Professor Yang has undertook three National Science Foundation of China (NSFC) programs, two province departmental level projects, and more than 30 engineering projects. In recent years, he has published nearly 40 academic papers. He has also published 2 monographs. He applied for 9 national patents (5 authorization,4 pending) and accessed 2 computer software copyrights.

Guozhu CHENG
Ph.D.

Professor
Northeast Forestry University
26 Hexing Road, Xiangfang District, Harbin, China
+86 13936274279
guozhucheng@126.com

Dr. Guozhu Cheng received his PhD from Harbin Institute of Technology in 2007. Since 2008, he has been a faculty member as a Lecturer (2008-2010), Associate Professor (2010-2017) in Harbin Institute of Technology and Full Professor (2018-now) in Northeast Forestry University. His interests include road traffic safety, highway alignment design and highway capacity. He has published >100 peer-reviewed journal and conference papers, and 62 papers have been indexed by SCI and EI. He has published 4 monographs and participated in compiling 2 national standards. He has hosted or participated in 23 national and provincial scientific research projects. He received a Second-class Award and a Third-class Award of Provincial Science and Technology Progress, and his 5 patents for inventions were granted.

Graham CURRIE
Ph.D.

Professor Graham Currie FTSE
Public Transport Research Group, Monash University
23 College Walk, Clayton VIC 3800 Australia
+61 414-852699
graham.currie@monash.edu
publictransportresearchgroup.info/our-team/staff/prof-graham-currie/

Prof Currie is a Transport research leader/ advisor and Directs the Public Transport Research Group which is one of the top 3 groups in the world in this area. He has published more research papers in leading journals in this field than any other researcher. He is Chair of the Light Rail Committee at US TRB and a member of the Singapore LTA Research Advisory Board. He has won numerous research prizes including best paper; 14th World Conference on Transport Research, the William W Millar TRB prize for best paper twice and the Research Impact award from the Australian Road Research Board. Graham is a fellow of the Academy of Technology Science and Engineering and chairs their Infrastructure Forum.

Gan LIU
Ph.D.

Deputy Director
China Academy of Transportation Sciences
240 Huixinli, Chaoyang District, Beijing, China, 200092
+86 10-58278391
65823956@qq.com
Liuhaode@motcats.ac.cn
www.motcats.ac.cn/

Mr. Liu Gan is an industry professor, senior engineer and a member of the National Road Traffic Management Standardization Technical Committee. He has been engaged in road traffic safety management research, design and product development for a long time. He has presided over or participated in the drafting of 19 technical standards for road traffic safety, and has won more than 80 patents. His works are New Recognition of Traffic Safety and Research and Application of Active Emitting Traffic Signs.

Guangquan LU
Ph.D.

Professor
Beihang University
Gaojiaoyuan , Shahe District, Beijing
+86 13811319743
lugq@buaa.edu.cn
shi.buaa.edu.cn/luguangquan/
zh_CN/index/10322/list/index.htm

Prof. Guangquan Lu is the Associate Dean of School of Transportation Science and Engineering, Beihang University. In recent years, his research has been carried out on driving behavior, V2V and traffic system reliability. He introduced the homeostatic risk theory into the micro-driving behavior modeling and then proposed the desired safety margin car-following model based on subjective risk perception. He has been published more than 30 papers in the SCI journals and 4 academic books in transportation field.

Guoqiang MAO

Ph.D.

Professor
University of Technology Sydney
School of Electrical and Data Engineering, University of Technology Sydney, Australia
+61 2-95142526
g.mao@ieee.org
www.uts.edu.au/staff/guoqiang.mao

Guoqiang Mao joined the University of Technology Sydney in 2014 as Professor of Wireless Networking. Before that, he was with the University of Sydney. He has published three books and over 200 papers in international conferences and journals, including over 100 papers in IEEE journals, that have been cited over 7,000 times. He is an editor of the IEEE Transactions on Intelligent Transportation Systems, IEEE Transactions on Wireless Communications, IEEE Transactions on Vehicular Technology, and a co-chair of IEEE Intelligent Transport Systems Society Technical Committee on Communication Networks. His research interest includes intelligent transportation systems, vehicular networks, Internet of Things, next generation mobile communication systems, and wireless localization techniques. He is a Fellow of IEEE and IET.

Guojin TAN

Ph.D.

Professor
Jilin University
Renmin Street 5988, Changchun 130022, China
+86 15526885763
tgj@jlu.edu.cn

Dr. Tan is engaged in bridge detection and reinforcement, bridge structural dynamics and so on. In recent years, he has undertaken more than 10 scientific research projects, including the National Natural Science Foundation of China projects and the National High Technology Research and Development Plan(863 Project). He published more than 60 SCI/EI indexed papers, obtained more than 10 authorized patents, including 8 invention patents. He now serves as a special expert of Jilin Provincial Highway Engineering Association, and serves as an expert in the review of many academic journals, such as "American Journal of Mechanics and Applications", "Journal of Vibration Engineering", "Construction & Building Materials" and so on.

Gang REN
Ph.D.

Professor
School of transportation, Southeast University
NO.2 sipailou, Nanjing, China
+86 25 83790550
rengang@seu.edu.cn
www.iitraffic.com

Professor Ren is currently the director of the major project and collaborative innovation office of the research institute of Southeast University. His main research interests include traffic behavior and safety, emergency traffic management, and active traffic optimization. He has published 14 SCI papers and more than 50 EI papers in domestic and foreign academic journals and international conferences, written 3 monographs and 1 textbook, authorized 3 national invention patents and 1 utility model patent, and obtained 3 software Copyrights. He supervised 11 doctoral students and 29 master students (including 2 provincial excellent master thesis recipients). He has won many academic awards, personal honors and grants from talent programs.

Guohui ZHANG
Ph.D.

Associate Professor
Department of Civil and Environmental Engineering,
Hawai'i at Manoa
2444 Dole Street, Honolulu, HI 96822USA
+1 808 956-2378
guohui@unm.edu
www.cee.hawaii.edu/faculty-staff-main/2-faculty/zhang/

Dr. Guohui Zhang is an Associate Professor in the Department of Civil and Environmental Engineering at the Hawai'i at Manoa. Dr. Zhang received his Ph.D. from the University of Washington in 2008. Dr. Zhang's research focuses on large-scale transportation systems modeling, customized traffic simulation, travel delay estimation, traffic safety and accident modeling, congestion pricing, traffic detection and sensor data analysis, and sustainable transportation infrastructure design and maintenance. Dr. Zhang has published nearly 50 peer-reviewed journal articles, conference papers, and technical reports and presented his research contributions numerous times at prestigious international and national conferences.

H. Oliver GAO
Ph.D.

Professor
Cornell University
School of Civil and Environmental Engineering
Cornell University Ithaca, NY 14853
+1 607-2548334
hg55@cornell.edu
gao.cee.cornell.edu/

Dr. Gao, Director of Cornell Systems Engineering and Director of Center for Transportation, Environment, and Community Health (CTECH), is a Professor with the School of Civil and Environmental Engineering at Cornell University. He is an elected member in the graduate fields of 1) Civil and Environmental Engineering, 2) Air Quality in Earth and Atmospheric Science, 3) Cornell Institute of Public Affairs (CIPA), and 4) Systems Engineering at Cornell University. His research focuses on quantitative modeling and development of engineering systems solutions for sustainable and intelligent infrastructure and lifeline systems, low carbon and low emission transportation systems, and the closely related environment (especially air quality and climate change)-energy systems. He also studies alternative transportation/energy technologies, systems innovation, and green supply chain and logistics (e.g., sustainable food systems, quantifying and mitigating green-house gas emissions from food supply chains). Gao received his graduate degrees (Ph. D. in Civil and Environmental Engineering, M.S. in Statistics, and M.S. in Agriculture and Resource Economics) from the University of California at Davis in 2004, M.S. degree in Civil Engineering in 1999, and duel undergraduate degrees in Environmental Science and Civil Engineering in 1996 from Tsinghua University, China. He served as the Editor-in-Chief of Transportation Research Part D: Transport and Environment 2014-2018. Before joining Cornell, Gao was a QUANT in the mathematical and econometrical modeling division at the Rohatyn Group, LLG, a Wall Street hedge fund specializing in emerging markets including the BRIC countries.

Helai HUANG

Ph.D.

Professor, Director of Urban Transportation Research Center, Director of Smart Transport Key Laboratory of Hunan Province
Central South University
NO. 22 Shaoshan South Road, 410074 Changsha, China
+86 731-8265-6631
huanghelai@csu.edu.cn

Education: B.E.& M.E., Tianjin University; Ph.D. in transportation engineering, National University of Singapore; Postdoctoral, University of Central Florida. Expertise: traffic safety, transportation planning and management, intelligent transportation systems. Professional Affiliation: Associate editor: Accident Analysis and Prevention; Editorial board member: Analytic Method for Accident Research; Journal of Traffic and Transportation Engineering, Journal of Wuhan University of Technology (Transportation edition), TRB committee member of ABJ80, Vice-Chairman of Hunan Academy of Transportation Engineering. Academic Activities: Prof. Huang has published over 200 papers, including about 100 papers in SCI/SSCI-indexed international journals. Prof. Huang is the PI of three NSFC projects, Task-Level of National Key R&D Program, international cooperation project funded by FHWA, S&T project by Ministry of Transport of China, Fok Ying Tong Education Foundation of Hong Kong, NSF Outstanding Young Researcher Funding Program of Hunan Province etc.

Honglong LI

Ph.D.

Rail Station Access Improvement Program Manager
Office of Director, Department of Transportation Services, City and County of Honolulu, Hawaii, USA
3rd Floor, DTS, 650 South King Street, Honolulu, Hawaii, 96817, USA
+1 808-768-5472
honglongli@gmail.com

Dr. Li serves as Rail Station Access Program Manager for Department of Transportation Services (DTS) City and County of Honolulu, Honolulu, Hawaii. Previously, he worked as a senior supervising engineer with Parsons Brinckerhoff (PB) and serves as the manager of the Honolulu Office's transportation planning and traffic engineering department. He has had considerable experience in transportation planning and traffic engineering for both public sector and private sector projects. Dr. Li has experience in transportation management plan, maintenance of traffic plan, traffic analysis, signal design, micro-simulation, transportation planning, traffic modeling, statistics, traffic safety, and traffic calming studies. He also taught several courses at the Civil and Environmental Engineering Department of University of Hawaii at Manoa. Dr. Li served as Hawaii Section President of Institute of Transportation Engineers from 2010 to 2012.

Hong K.LO
Ph.D.

Head and Chair Professor
Hong Kong University of Science and Technology
Department of Civil and Environmental Engineering, Clear Water Bay, Hong Kong
+852 2358-8389
+852 2358-1534
cehklo@ust.hk
ihome.ust.hk/~cehklo

Professor Hong K. LO is Head and Chair Professor of Civil and Environmental Engineering, and Director of GREAT Smart Cities Institute of the Hong Kong University of Science and Technology. He is Founding Editor-in-Chief of Transportmetrica B: Transport Dynamics, and Managing Editor of the Journal of Intelligent Transportation Systems. Professor Lo was awarded the prestigious triennial World Conference on Transportation Research (WCTR) Prizein 2001, and more recently, HKUST School of Engineering Research Excellence Award in 2014. He is a Fellow of the Hong Kong Institution of Engineers (HKIE), Fellow of the Chartered Institute of Logistics and Transport (CILT), Fellow of the Hong Kong Institute of Highway and Transportation (IHT), and Fellow of the Hong Kong Society for Transportation Studies.

Hui LI
Ph.D.

Professor
Tongji University
4800 Caoan Rd, Shanghai, 201804, China
+86 13601789941
hli@tongji.edu.cn

Dr. Hui Li is a Professor in the College of Transportation Engineering at Tongji University, Shanghai, China. He completed his Ph.D. in Civil and Environmental Engineering at University of California-Davis, US. He holds a B.S. in Civil Engineering and a M.S. in Highway and Railway Engineering from the Southeast University, Nanjing, China. His research interests include sustainable and resilient transportation infrastructure, sustainable development in built environment, and life cycle assessment. Dr. Li has authored or co-authored over 60 publications with more than 800 citations. Dr. Li is/was a member in TRB Committee of Environmental Analysis in Transportation (ADC10), Seasonal Climatic Effects on Transportation Infrastructure (AFP50), Bicycle Transportation (ANF20) and Pavement Surface Properties and Vehicle Interaction (AFD90).

Haode LIU

Ph.D.

Deputy Director
China Academy of Transportation Sciences
240 Huixinli, Chaoyang District, Beijing, China, 200092
+86 10 58278391
65823956@qq.com
Liuhaode@motcats.ac.cn
www.motcats.ac.cn

Professor Liu has long engaged in the research field of urban transportation and rail transit. A number of his decision-making research results have been adopted by the ministry of transport and local people's government transport administrative departments. He also participated in 2 national standards compilation, participated in drafting 9 industry standards. In 2019, he was awarded the title of "young talents in transportation science and technology" by the ministry of transport, and obtained 2 national invention patents and 8 computer software copyrights. He has published more than 30 papers and won the first prize once and second prize of science and technology of China highway society twice, and the second prize of science and technology of provincial people's government twice.

Henry LIU

Ph.D.

Chief Scientist
Smart Transportation of Didi Chuxing
Professor
University of Michigan, Ann Arbor
henryliu@didiglobal.com

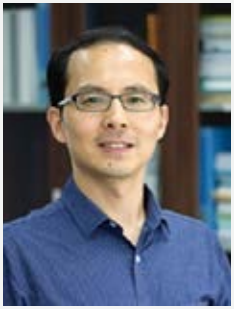
Dr. Henry Liu is DiDi's Vice President and Chief Scientist on Smart Transportation, leading DiDi's Urban Transportation Business Unit. Dr. Liu is also a tenured Professor of Civil and Environmental Engineering at the University of Michigan, Ann Arbor. Dr. Liu's research interests focus on transportation network monitoring, modeling, and control, as well as mobility and safety applications with connected and automated vehicles. On these topics, he has published more than 100 refereed journal articles. Dr. Liu is the managing editor of Journal of Intelligent Transportation Systems, and an associate editor of Transportation Research Part C.

Hu SHAO
Ph.D.

Professor
China University of Mining and Technology
School of Mathematics, China University of Mining and Technology, No. 1 Daxue Road, Xuzhou, Jiangsu 221116, China
+86 15305206668
h.shao@163.com
math.cumt.edu.cn/6d/ce/c9104a355790/page.htm

Prof. Hu Shao has over 10 years professional experience and is the author of more than 40 journal and conference papers. Prof. Shao is currently a professor of School of Mathematics at China University of Mining and Technology (CUMT). Having graduated from CUMT with a BSc in Mathematics and Applied Mathematics, he obtained a PhD in Computation Mathematics from Nanjing University in 2007. He worked as a Postdoctoral Fellow at The Hong Kong Polytechnic University from June 2011 to Aug 2012. In the past 2 decades, Prof. Shao has been actively involved in research and scholarly activities on network modeling and reliability analyses. Particularly in recent years (2009-2018), he has successfully received 3 research grants from the National Natural Science Foundation of China.

Huizhao TU
Ph.D.



Professor
Tongji University
4800# Cao'an Road, Jiading District, Shanghai, 201804, China
+86 15901696871
huizhaotu@tongji.edu.cn
tjjt.tongji.edu.cn/index.php?classid=9402&j_id=36&t=show

Dr. Huizhao Tu received the B.Sc. degree in civil engineering and the M. Eng. degree in transportation engineering from Tongji University, China, the Ph.D. degree in Transport & Planning from Delft University of Technology, The Netherlands. He is currently a full professor with College of Transportation Engineering, at Tongji University, China; Transport Young Scientific Talents of MOT. He was with Department of Transport & Planning, Delft University of Technology, The Netherlands, where he was a Researcher from 2003 to 2008. His research interests include transport risk management, intelligent connected vehicles, network reliability analysis, emergency traffic management, travel behavior analysis. From 2003 to 2010, he participated in several Dutch projects on reliable traffic monitoring and emergency traffic management, and from 2010 till now, he participated in several Chinese projects (e.g. three NSFC projects) in emergency driving behavior and transport risk assessment. He has published more than 90 peer-reviewed papers. He is an Associate Editor for the 16th IEEE International Conference on Intelligent Transportation Systems (The Hague, The Netherlands, 2013) and for the 17th IEEE International Conference on Intelligent Transportation Systems (Qingdao, P.R.China, 2014). He is the chair of Joint Chinese-Dutch Seminar on Transportation Management and Travel Behaviour for Urban Emergencies: Past, Present, and Future Research June 2014.

Hainian WANG
Ph.D.

Professor
Chang'an University
Chang'an University Middle-section of Nan'er Huan Road Xi'an, ShaanXi Province, 710064, China
+86 13609161519
wanghnchd@gmail.com

Professor Hainian Wang has engaged in diverse research directions, including: design theory and method of regionally specific road engineering, road material microstructure characterization and modeling, environmental paving materials development and evaluation, etc. He has hosted 6 projects from NSFC and more than 10 projects funded by MOT and provincial DOT and published more than 130 papers, including more than 60 SCI papers. The citation is 1126 times with a h-impact factor of 17. He has hosted 5 international academic conferences, and served as the guest editor to publish 4 issues of international journals, and was invited to give more than 20 international academic reports in the United States, Germany, the United Kingdom, South Africa and other countries.

Hao WANG
Ph.D.

Professor
School of Transportation
Southeast University
DongNanDaXue Road 2, Nanjing 211189, China
+86 25-52091276
haowang@seu.edu.cn

Dr. Hao Wang received his B.S. degree in traffic engineering and his Ph.D. degree in transportation planning and management from Southeast University in 2002 and 2008. Now he is a professor at the School of Transportation of the Southeast University. His research interests include traffic flow theory, traffic control and traffic safety. Dr. Wang has been in charge of 4 sub-topics of the National High Technology Research and Development Program of China, 3 projects of the National Natural Science Foundation of China. In 2018, Dr. Wang won the second prize of the Science and Technology Awards of China. In 2016 and 2017, he won the first prize twice of the Science and Technology Awards of China Highway and Transportation Society.

Haizhong WANG
Ph.D.

Associate Professor
School of Civil & Construction Engineering
Oregon State University
101 Kearney Hall, Corvallis, OR 97330, USA
+1 541-737-8538
Haizhong.Wang@oregonstate.edu

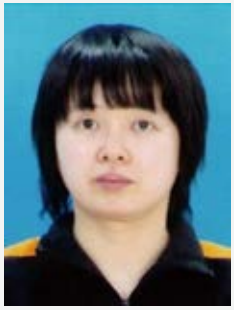
Dr. Haizhong Wang is an Associate Professor of Transportation Engineering within the School of Civil and Construction Engineering at Oregon State University, Corvallis, OR. Dr. Wang received M.S. and Ph.D. degrees from University of Massachusetts, Amherst in Applied Mathematics and Civil Engineering (Transportation), and B.S. and M.S. degrees from Hebei University of Technology and Beijing University of Technology, China. Dr. Wang's research interests include (1) Interdisciplinary Disaster Resilience: use the ABM framework to evaluate the impacts of heterogeneous decision-making behavior on life safety under unplanned infrastructure network disruptions; (2) Critical Resilient Interdependent Lifeline and Infrastructure Networks: system resilience characteristics and dependency/interdependency modeling; (3) Heterogeneous Traffic Flow Modeling and Simulation: deterministic and stochastic fundamental diagram of traffic flow, hysteresis, and stochastic capacity analysis; and (4) Connected Automated Vehicle (CAV): mobility and safety analysis in a mixed traffic flow environment under varying levels of market penetrations. He is a member for three TRB standing committee: AHB45 Traffic Flow Theory and Characteristics, ABJ70 Artificial Intelligence and Advanced Computing Applications and ABR30: Emergency Evacuation and AHB45 (3) Subcommittee on Connected and Automated Vehicles through Traffic Flow Theory and Characteristics. Dr. Wang is also actively involved in the American Society of Civil Engineers (ASCE) Infrastructure Resilience Division (IRD) and serving on the Critical Infrastructure and Lifeline System Committee (CILSC), Disaster Response and Recovery Committee (DRRC), Emerging Technologies Committee (ETC), and Risk and Resilience Measurements Committee (RRMC). He is also serving on the Board of Directors for the Chinese Oversea Transportation Association (COTA) since Jan. 2014 and was the organizing committee chair for CICTP2017. He is the 2014 recipient of the Outstanding Reviewer for ASCE Journal of Transportation Engineering. Dr. Wang has published over 45 journal papers and 60 major conference papers, he has attracted 1.5 million (his share) external funding from eight different funding sources including three ongoing NSF grants from the Humans, Disasters, and the Built Environment (HDBE) program (Awards #1563618, #1826407, #1902888).

Heng WEI
Ph.D.

Professor and Director
ART-EngineS Transportation Research Laboratory
Dept. of Civil & Architectural Engineering & Construction Management
College of Engineering & Applied Science
The University of Cincinnati, Cincinnati, Ohio 45221-0071, USA
+1 513-556-3781;
heng.wei@uc.edu
homepages.uc.edu/~weihg/

Dr. Heng Wei invented a video-capture-based method for extracting vehicle trajectory data on multiple lanes from video and developed a software tool, VEVID which was later combined with image processing technique into the a "hybrid" system (VIEW-TRAFIC) to make the video-based traffic extraction suitable for all traffic conditions. He has developed two GIS-based analysis systems, Traffic Air Environmental Health Impact Analysis (TAEHIA) and Air Impact Relating Scenario-based Urban Settings and Transportation Assets In Network (AIR-SUSTAIN) to facilitate analysis of the land-social-travel-environment nexus. Recently, Dr. Wei has created a model and algorithm that uses data from connected vehicles to adjust the timing of traffic lights for maximizing throughput, while formulating the infrastructure-CAV nexus. He has served as the Chair of IEEE ITSS Travel Information and Traffic Management Committee, Chair of Energy and Environment Committee under Urban Planning Track for the World Transportation Convention, and Past President of COTA.

Huining XU
Ph.D.



Professor
Harbin Institute of Technology
Heilongjiang Province
+86 18246018910
xuhn@hit.edu.cn
homepage.hit.edu.cn/xuhn

Dr. Huining Xu is a Full professor from Harbin Institute of Technology. She focuses on the heat and mass transfer of pavement materials/structure and related damage mechanism. Her work has been applied in many engineering works around China and received the National Science and Technology Awards.

Hai YANG
Ph.D.

Chair Professor
Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology
Hong Kong, China
+852 2358-7178
cehyang@ust.hk
ihome.ust.hk/~cehyang/

Prof. Hai Yang is currently a Chair Professor at The Hong Kong University of Science and Technology. He is internationally known as an active scholar in the field of transportation, with more than 240 papers published in SCI/SSCI indexed journals and a SCI H-index citation rate of 53. Most of his publications appeared in leading international journals, such as Transportation Research, Transportation Science and Operations Research. Prof. Yang received a number of national and international awards, including National Natural Science Award bestowed by the State Council of PR China (2011). He was appointed as Chang Jiang Chair Professor of PR China; Prof. Yang served as the Editor-in-Chief of Transportation Research Part B (2013-2018) and is now a distinguished editorial board member of this journal.

Huanan YU
Ph.D.

Professor
Changsha University of Science & Technology
No. 960, two section of Wan Jia Li South Road, Tianxin District, Changsha, Hunan
+86 13714470593
huanan.yu@csust.edu.cn

Dr. Yu received PhD from Washington State University and is a professor of Changsha University of Science & Technology and was elected as the "Hundred Talent Program of Huanan Providence". Before joining CSUST, he was a senior engineer and out-of-class supervisor at Seattle Department of Transportation. His research interests cover road pavement material design and performance prediction, intelligent infrastructure and field application. He has presided and participated in more than ten scientific research and public relations projects in the United States, and has received finance support of more than $4 million.

Hongduo ZHAO
Ph.D.

Professor
Tongji University
Shanghai, China
+86 18246018910
hdzhao@tongji.edu.cn
tjjt.tongji.edu.cn/index.php?classid=9402&j_id=7&t=show

He received his Ph.D. in Road and Railway Engineering from Tongji University and was a visiting scholar at the University of California (Davis) for 1 year. Mainly engaged in the intelligent direction research of airports and road pavements. The research results have won 1 second prize of national scientific and technological progress, 3 first prizes of provincial and ministerial level, 4 second prizes and 1 third prize; 1 national first-class construction law, 1 industry standard, local standard 1 Department; published nearly 90 academic papers, including more than 30 articles by SCI/EI; participated in the publication of 3 textbooks. He has won the titles of "Transportation Youth Science and Technology Talents", "Outstanding Young Teachers of Tongji University", "Excellent Shanghai Graduates", etc.

Ignatius FOMUNUNG
Ph.D.

Professor
University of Tennessee Chattanooga
615 McCallie Avenue, College of Engineering & Computer Science, Chattanooga, TN 37403, USA
+1 423-425-2005
+1 423-425-5229
Ignatius-Fomunung@utc.edu

Dr Ignatius Fomunung is a Professor at the University of Tennessee at Chattanooga, and a Visiting Professor in the International College of Changsha University of Science and Technology, Hunan Province, China. He obtained the Ph.D degree in Civil & Environmental Engineering from Georgia Institute of Technology (GaTech), a MS in Transportation Engineering, also from GaTech; a MS in Atomic and Molecular Physics from Clark Atlanta University; and a BS in Civil Engineering from the Southeast University, China. Dr Fomunung conducts research in the fields of transportation-energy-air quality analysis and modeling, transportation planning and land use development, and in infrastructure systems analysis and design, monitoring, and rehabilitation. He is the director of UTC's Center for Energy, Transportation and the Environment.

Jun CHEN
Ph.D.

Professor, Dean
School of Transportation, Southeast University
No. 2 Southeast University Road, Jiangning District, Nanjing City, China
chenjun@seu.edu.cn
tc.seu.edu.cn/jt_en/2018/0902/c20831a237263/page.htm

Dr. Jun Chen is a Professor of School of Transportation at Southeast University in Nanjing China. He holds B.S, M.S & PhD degrees from Xi'an Electronic University and Southeast University, China (1991-1995, 1995-1998, 1998-2000). His main expertise and interest is in the areas of urban parking facilities' planning and management, urban integrated transport system, urban public transportation system, intelligent transportation system. Dr. Chen has managed 9 national science and technology programs. He has published more than 100 papers at various famous journals and international symposiums. He also has published 4 academic monographs.

Jin-Hyuk CHUNG
Ph.D.

Professor
Yonsei University
Address50 Yonsei-ro,S eodaemun-gu, Seoul, South Korea
+81 2-2123-5892
jinchung@yonsei.ac.kr
urbankorea.com

Dr. Chung is a professor of Department of Urban Planning and Engineering at Yonsei University. He graduated at Yonsei University's College of Engineering with a Bachelor's and Master's degree in Civil Engineering in February 1988 and 1990, respectively. After then, he earned a Ph. D. in Civil Engineering emphasizing on transportation planning from the Pennsylvania State University on May 1997. Before joining Yonsei University, he had worked as an assistant and associate professor in Department of Urban Engineering at Chung-ang University from September 1997 to February 2007. His research area is mainly on transportation planning and travel behavior and value analysis. Since March of 2019, he is the vice president of Korean Society of Transportation. He has more than 30 papers published in refereed journals.

José HOLGUÍN-VERAS
Ph.D.

Director of the Center of Excellence for Sustainable Urban Freight Systems
Rensselaer Polytechnic Institute
110 8th St. JEC 4030, Troy NY 12180, USA
+1 518-276-6221
jhv@rpi.edu
faculty.rpi.edu/node/34743

Dr. José Holguín-Veras, is the William H. Hart Professor and Director of the VREF Center of Excellence for Sustainable Urban Freight Systems, and the Center for Infrastructure, Transportation, and the Environment. He is the recipient of numerous awards, including the 2013 White House's Transportation Champion of Change Award, the 1996 Milton Pikarsky Memorial Award, and the 2001 National Science Foundation's CAREER Award. His research interests are in the areas of: freight transportation modeling and economics, and humanitarian logistics. He is the most widely published and cited freight researcher in the world. He received his Ph.D. from The University of Texas at Austin in 1996; a M.Sc. from the Universidad Central de Venezuela in 1984; and a B.Sc. from the Universidad Autónoma de Santo Domingo in 1982.

Jia HU
Ph.D.

Professor
Tongji University
4800 Cao'an Rd
Shanghai, China
+86 13588159138
hujia@tongji.edu.cn

Jia Hu works as a "Hundred Talent Program" Professor in the College of Transportation Engineering at Tongji University. Before joining Tongji, he was a research associate at the Federal Highway Administration, USA (FHWA). Dr. Hu is a recipient of Best Paper Award from the TRB Air Quality Committee, Best Scientific Paper-Americas Award from the ITS World Congress 2016, and Research Associateship Award from the National Academy of Sciences. He is an Associate Editor of the American Society of Civil Engineers Journal of Transportation Engineering. Furthermore, he is a member of TRB (a division of the National Academies) Vehicle Highway Automation Committee, Freeway Operation Committee and Simulation subcommittee of Traffic Signal Systems Committee.

Jing JIN

Professor
East China University of Science and Technology
130 Meilong road, Shanghai, China
+86 13585612663
jinjing@ecust.edu.cn
cise.ecust.edu.cn/2016/1020/c7783a56787/page.htm

Dr Jin is a full professor and the head of the Lab for Brain-Computer Interfaces and Control. He was also IEEE Senior Member and the chair of the department of automation in the East China University of Science and Technology. He published more than 80 research papers in BCI related journals and conferences including Journal of Neural Engineering, IEEE Transactions on Neural Systems and Rehabilitation Engineering, International Journal of Neural Systems, Acta Automatica Sinica and International BCI Conference and Meeting (2006-2019). From 2015 to 2019, he was selected as Most Cited Chinese Researchers in the field of biomedical engineering. His citations in google scholar is more than 2500 times and the H-index is 30. He is the editorial board of Brain-Computer Interfaces, Journal of Neural Engineering, Journal of Neuroscience Methods and Applied science and guest editor of Computational Intelligence and Neuroscience. He won the Second Class Nature Science Prize of Shanghai in 2018 (Rank first).

Jian LI

Ph.D.

Associate Professor/Associate Dean
College of Transportation Engineering/Transportation Research Institute, Tongji University
4800 Cao'an Rd., Shanghai, China
+86 13816016051
jianli@tongji.edu.cn

Dr. Li is currently associate professor with a focus on transportation planning and emergency management in department of traffic engineering in Tongji University, Shanghai, China. His general research interests concern transportation planning and emergency management by integrating emerging data sources with computing technologies and mathematical tools. In this vein, he is interested in both enhancing current state-of-practice planning tools and analyzing empirical transportation system behavior and characteristics.

Jiancheng LONG
Ph.D.

Professor
Hefei University of Technology
Hefei University of Technology, 230009 Hefei, China
jianchenglong@hfut.edu.cn

Prof. Jiancheng Long is currently a full professor of School of Automation and Transportation Engineering, Hefei University of Technology. He received his Bachelor degree in Transportation Engineering, and Ph. D in Transportation Planning and Management from Beijing Jiaotong University. His interests of research include dynamic traffic assignment, modeling and simulation of urban traffic jam, and optimization of urban traffic organization and management. Prof. Long has taken part in 11 national level research projects as principal investigator or main participant. 36 articles have been accepted or published in international SCI journals, such as Operations Research and Transportation Research Part B. The publication of the applicant has been cited more than 900 times on Google Scholar, and has been cited 350 times in Web of Science, including 212 times by others. His doctoral thesis was appraised as a nomination of the National Excellent Doctoral Dissertation of China in 2012. The applicant was awarded "New Century Excellent Talents in University of the Ministry of Education" in 2013, selected as Excellent Young Scholars of NSFC in 2015, selected as young scholars of "Chang Jiang Scholars Program" of the Ministry of Education in 2017, and awarded natural science first prize of the Ministry of Education in 2018.

Jian LU
Ph.D.

Professor
Southeast University
No. 2 Southeast University Road, Jiangning District, Nanjing
+86 25-83795645
lujian_1972@seu.edu.cn

Dr. Lu Jian is currently an expert of the National Action Plan for Promoting Urban Road Traffic Civilization and Transportation Civilization, deputy secretary-general of the National Road Traffic Management Engineering and Technology Research Center, and member of the Expert Advisory Committee of the National Alliance for Technological Innovation of Intelligent Transportation Industry. He was selected by the Ministry of Education as the "Supporting Plan for Excellent Talents in the New Century" by conscribing the titles of assailants and outstanding scientists and technicians in Jiangsu Province.The main research directions are traffic planning, traffic management, traffic safety and intelligent transportation.

Jianming MA
Ph.D., P.E.

Project Manager / Senior Transportation Engineer
Texas Department of Transportation
9500 N. Lake Creek Pkwy, Austin, TX 78717, USA
+1 512-923-6456
Jianming.Ma@txdot.gov

Jianming Ma holds a Ph.D. degree in Civil Engineering from the University of Texas at Austin. Dr. Ma coordinates connected and automated vehicle activities at the Texas Department of Transportation (TxDOT), whether demonstration, pilot projects, national studies and university research. Dr. Ma has over twenty years of professional and research experience in connected and automated vehicle (CAV), econometric modeling, human factors, intelligent transportation systems (ITS), systems engineering, traffic engineering, and traffic safety. He has over 40 technical papers and reports published in the above-mentioned areas. He is the Research Coordinator for the Transportation Research Board (TRB) Committee on Safety Data, Analysis and Evaluation (ANB20), a member of TRB's Traffic Signal Systems (AHB25) and a liaison for SAE DSRC Technical Committee. He also sits on TRB Active Traffic Management Joint Subcommittee (AHB20-5).

Dr. Ma has been invited to serve on numerous research panels such as TxDOT, the National Cooperative Highway Research Program (NCHRP), the Strategic Highway Research Program 2 (SHRP2), the American Association of State Highway and Transportation Officials (AASHTO) CAV Working Group, Cooperative Automated Transportation (CAT) Coalition, and the Connected Vehicle Pooled Fund Study (CV PFS). Dr. Ma serves as the Editor-in-Chief for the International Journal of Smart Vehicles and Smart Transportation (IJSVST) and served as Associate Editor for the 15th International IEEE Conference on Intelligent Transportation Systems. Dr. Ma is Vice President of Chinese Overseas Transportation Association (COTA)

Jian SUN
Ph.D.

Professor
Tongji University
4800 Cao'an Road, Shanghai, China
+86 21-69583650
sunjian@tongji.edu.cn
tops.tongji.edu.cn

Dr. Jian Sun is a Professor in Traffic Engineering, Tongji University. His research is focused on transportation flow simulation, traffic flow theory, intelligent transportation system and connected and automated vehicles. Dr. Sun published over 100 papers at leading journals and conferences in Transportation Engineering. He is an Associate Editor of IET Intelligent Transportation Systems and Editor of International Journal of Intelligent Transportation Systems Research. He is also a recipient of NSFC Excellent Young Talents award in 2014 and the New Century Excellent Talents in University award in 2013.

Jun (Jason) WANG
P.E.

Senior Transportation Specialist
Director, Local Access Roads Program
Appalachian Regional Commission
1666 Connecticut Ave.
Washington, DC 20009, USA
+1 202-884-7725
jwang@arc.gov

Mr. Wang is a senior transportation advisor at the Appalachian Regional Commission (ARC) where he works with the Federal Highway Administration (FHWA) of USDOT to administer the Appalachian Development Highway System (ADHS) under the US surface transportation legislation. He is also a program director for the Appalachian Local Access Road (LAR) program responsible for approval and implementation of the LAR projects across 13 Appalachian states. Mr. Wang is a graduate of USDOT's Eisenhower Graduate Research Fellow program and obtained his M.S. in Transportation from Morgan State University and B.S. of Civil Engineering from the Beijing University of Technology. He is a registered Professional Engineer in the State of Maryland and members of TRB and AASHTO committees. He was a founding member and a past president of COTA and is currently leading the effort of organizing the annual COTA-World Bank China Transport Forum at CICTP.

Jiancheng WENG
Ph.D.

Associate Professor
College of Metropolitan Transportation,
Beijing University of Technology, No.100
Pingleyuan Chaoyang District, Beijing, China

+86 10-67392386
youthweng@bjut.edu.cn
yanzhao.bjut.edu.cn/
ds/10/2015628/1435489824964_1.html

Dr. Jiancheng Weng has been an associate professor in the College of Metropolitan Transportation (CMT) of Beijing University of Technology since 2007. His research areas include traffic information systems and technology, Multi-mode public transit travel behavior modelling and transportation data processing and modeling. He was selected as a member of "Beijing Nova" Talent Program by Beijing Municipal Science and Technology Commission as well as the member of Youth Science and Technology Committee of China Transportation Association. He has been in charge of almost 40 projects supported by the National Natural Science Foundation of China (NSFC), the major Special Program of National Science and the Ministry of Industry and Information Technology, and projects on the topics of Intelligent Transportation System (ITS), traffic information and big data, sponsored by various Commissions of the Beijing government. Dr. Weng has published three books, and over 80 journal articles, referred and conference paper. 47 of them were included in SCI & EI databases. He was authorized 15 national invention patents, and received 10 prizes of science and technology award respectively granted by the Beijing municipal government, the Chinese highway society science and Technology, and ITS China.

Jinxian WENG
Ph.D.

Professor
Shanghai Maritime University
1550 Haigang Ave, Shanghai 201306, China
+86 2138282316
jxweng@shmtu.edu.cn

Dr. Jinxian WENG is currently a full Professor in College of Transport and Communications, Shanghai Maritime University. He is the director of Waterway & Roadway Traffic Safety Research Centre and the Head of Traffic Engineering Department. He received a Doctor of Philosophy Degree in Transportation Engineering from National University of Singapore in 2011. His research interests focus on traffic modeling, big data analysis, maritime traffic safety prediction and behavioral analysis. On these topics, he has published over 100 technical articles in referred journals and conference proceedings, including his journal articles appeared in leading journals such as Journal of Navigation, Ocean Engineering, Accident Analysis and Prevention, IEEE Transactions on Intelligent Transportation Systems, etc. His Google-scholar H-index is 20. As the principle investigator, Dr. Weng has completed many projects supported by the Natural Science National Natural Science Foundation of China, the Shanghai Shuguang Talent Program, Shanghai Youth Talent Program, and Youth Science & Technology Excellence Program sponsored by Ministry of Transport. Dr. Weng is currently served as an Associate Editor of Journal of Transportation Safety & Security and an Advisory Board Member of International Journal of Transportation. He has also been a member of many professional committees such as China Institution of Navigation.

Junhua WANG
Ph.D.

Professor
College of Transportation Engineering, Tongji University
4800 Cao'an Hwy. Shanghai, China
+86 13061765132
benwjh@163.com

Dr. Junhua Wang is currently a Professor in College of Transportation Engineering of Tongji University, China. His research interest includes Freeway Operational Safety and Accident Modelling. In the last 5 years, he finished five national level research projects, such as 12th 5 Year Key Project in the National Science & Technology Support Program in China. He published more than 15 papers in the top journals of safety research including Accident analysis& Prevention, Safety Science. Additionally, he got National Science and Technology Award in 2017. He also achieved 2018 Excellent Research Result Award of Ministry of Education, 2011 and 2013 Hebei Province Advanced Technology Award, 2011 Chongqing Advanced Technology Award and 2012 Advanced Technology Award of Ministry of Security.

Jin XU
Ph.D.

Professor, and Academic Head
Chongqing Jiaotong University
No. 66, XueFu Ave., ChongQing 400074, China
+86 13228102668
yhnl_996699@163.com

Dr. JIN XU devotes himself to the study of highway safety design, driver behavior and modelling, driving simulation, and coordination of "driver – vehicle -road". He proposed a dynamic decision algorithm to determine target "path & speed" for complex roads, prediction model of operating speed for heavy trucks driving on 3D complex alignment, a new tolerant design method of mountain highway alignment based on multi-mode driving behavior. He has published more than 100 papers, of which some were published on "Science CHINA", "IEEE T-ITS", "SIMULATION", and "J.Transp Eng". He published a monograph title "A New Method for Mountain Road Horizontal Alignment Design". He also developed six software related to safety evaluation of mountain roads, and was granted three software copyrights. Dr. Xu was awarded in 2017 Science and Technology Prize by ITS China and by Chongqing government in 2018. He has awards from the Ministry of Transport of the People's Republic of China in 2014 and 2017.

Jiangmiao YU
Ph.D.

Professor
South China University of Technology
No.381 Wushan Rd., Guangzhou, Guangdong, China
+86 13926120817
yujm@scut.edu.cn

Dr. Jiangmiao Yu is a professor in School of Civil Engineering and Transportation, South China University of Technology (SCUT), and he also is the Chair of Roadway Engineering Department. Dr. Yu received his PhD (SCUT) in Pavement Engineering in 2005. Starting from 2006.03 he is a faculty of SCUT, during 2010.04-2011.10, he was a visiting scholar of University of California at Berkeley, Pavement Research Center (UCPRC). His main research interests focus on pavement structure, pavement materials, pavement maintenance and management. Dr. Yu is the principal/co-principal investigator of more than 80 research projects, the first author/corresponding-author of about 40 journal papers and conference contributions, member of editorial board of "Construction Materials", reviewer of more than 10 international journals.

Jianyang ZHENG
Ph.D.

Transportation Manager
Maryland DOT SHA
707 N. Calvert St, Baltimore, MD 21202, USA
+1 410-545-5641
Jzheng@sha.state.md.us
www.roads.maryland.gov/Home.aspx

Dr. Jianyang Zheng is a program/project manager in the Travel Forecasting and Analysis Division, Office of Planning and Preliminary Engineering, Maryland Department of Transportation State Highway Administration (MDOT SHA), USA. Dr. Zheng received his master's degree (2002) and doctoral degree (2008) both in Transportation Engineering from the University of Washington, and bachelor's degree in Civil Engineering (1997) from Tsinghua University. In MDOT SHA, he performs and manages transportation engineering projects, travel demand forecasts, and safety studies. He is a registered Professional Engineer with the State of Maryland. Dr. Zheng currently serves on the Board of Directors (BLD) of COTA.

Jiupeng ZHANG
Ph.D.

Professor
Chang'an University
Middle Section of South Erhuan Road, Xi'an, Shaanxi, 710064, China
+86 29-62630058
zhjiupeng@chd.edu.cn

Prof Jiupeng Zhang holds a B.S. degree in civil engineering (2004) and Ph.D. degree in transportation engineering (2009) from Southeast University. From 2009, Prof Jiupeng Zhang worked in School of Highway at Chang'an Universtiy, and his current research interests include the meso-structure recognition and micromechanics modeling, the viscoelastic characterization of asphalt pavement and eco-friendly materials.

Jiangping ZHOU

Ph.D.

Associate Professor
The University of Hong Kong
Pok Fu Lam, Hong Kong, China
+852 39176168
zhoujp@hku.hk
www.arch.hku.hk/staff/upad/zhou-jiangping/

Dr. Zhou is Associate Professor in the Department of Urban Planning and Design at The University of Hong Kong (HKU) since 2017. He has brought much international experience, knowledge and network to his post at HKU. Prior to HKU, he was Lecturer (Assistant Professor) in Urban Planning at University of Queensland, Australia and Assistant Professor in Community and Regional Planning, Transportation and Sustainable Environments, Iowa State University, US. His primary research interests are in sustainable urban and transportation systems and associated policy and planning studies, especially from a comparative perspective and based on emerging data such as cellular network data and smart card data.

Kay W. AXHAUSEN

Ph.D.

Professor
ETH Zürich
+41 44-6333943
axhusen@ethz.ch
www.ivt.ethz.ch

Dr. K.W. Axhausen has been Professor of Transport Planning at ETH Zürich since 1999. He holds his post in the Institute for Transport Planning and Systems of the Department of Civil, Environmental and Geomatic Engineering. Before his appointment at ETH he worked at Universität Innsbruck, Imperial College London and the University of Oxford. He holds a PhD in Civil Engineering from the Universität Karlsruhe (now KIT) and an MSc from the University of Wisconsin – Madison. He has been involved in the measurement and modelling of travel behaviour for the past 35 years contributing especially to the literature on stated preferences, micro-simulation of travel behaviour, valuation of travel time and its components, parking behaviour, accessibility impacts and travel behaviour measurement.

Keechoo CHOI

Ph.D.

Chair
Metropolitan Transport Commission, Korea
keechoo@ajou.ac.kr

Dr. Keechoo Choi is Chair of Metropolitan Transport Commission of Korean Government as a full-time officer. He leaves university and professor of transportation enginnering at Ajou University. He also served director for the National Engineering Research Center [ERC] of Sustainable Urban Transportation. He is ex-president of Korean Society of Transportation [KST] 2017-2019 and ex-chairman of the Korean PIARC (World Road Association). His specialities include travel demand forecasting, travel time estimation for ITS and C-ITS, sustainable transportation with environmental concerns, and public transportation. His recent research area also covers autonomous and connected vehicle implementation with infrastructure revision. He is the founding and current Editor-in-Chief of International Journal of Sustainable Transportation (SSCI in Transportation), editorial board member of Journal of ITS, both by Taylor and Francis, also a board member of Transportmetrica Part B. As director of the Smart Sustainable transportation research center, Chairman of Korean PIARC, and president of KST, he eagerly attends TRB, PIARC, WCTR, and ITS WC.

Ke HAN

Ph.D.

Associate Professor
Department of Civil and Environmental Engineering at Imperial College London
United Kingdom

Dr. Han is an Associate Professor in the Department of Civil and Environmental Engineering at Imperial College London. His research interests include the modeling, control and optimization of transportation systems, intelligent and green transportation systems, air transportation, and big data analytics. He has published one book and over 100 journal and conference papers (including 25 in TR-B & TR-C), and serves as Area Editor of Networks and Spatial Economics and Editorial Board Member of TR-C. He was named the Chan Wui & Yunyin Rising Star Fellow by TRB in 2016. His work has been covered by mainstream media such as BBC, Main on Sunday, and the Economist.

Kyle LIANG
Ph.D.

Senior Planning Specialist,
Division of Traffic Engineering & Operations, Department of Transportation, Montgomery County, Maryland, USA
+1 240 506-8750
kzliang@yahoo.com

Over 30 years of transportation and traffic engineering experience in both the U.S. and China. Currently serving as an advisory professor at Beijing Jiaotong University—a top Chinese university specializing in transportation.Manage a team of 8 engineers and technicians to implement hundreds of transportation projects each year conducted by internal study team and external consulting firms related to transportation planning and traffic control plans for regional urban and suburban development projects. Up to two thousand successfully implemented transportation and traffic projects to-date; major projects highlighted below. Coordinate with other offices, departments, governments, and citizen associations for project and program implementation. Represent Montgomery County Department of Transportation, Division of Traffic Engineering at local stakeholder meetings. Prepare Montgomery County Department of Transportation pedestrian and bicycle safety publications for Transportation Research Board.

Kai LIU
Ph.D.

Professor, Vice Dean
Dalian University of Technology
No.2 Linggong Road, Ganjingzi District, Dalian, China
+86 411-84706221
liukai@dlut.edu.cn
faculty.dlut.edu.cn/liukai/

Dr. Kai LIU received his Ph.D. degree in Transportation Engineering from Nagoya University. His areas of specialties include transportation planning and management, ATIS, travel behavior modeling, GIS in Transportation. Dr. Liu has been appointed as the Chair of Transportation and Environment.

Discipline of Cross-cutting Track of World Transport Convention. He also served as the International Scientist Committee Member of Eastern Asia Society for Transportation Studies. His studies focus on key technologies and methodologies in transportation field, including elaborate data collection and treatment, data fusion, pattern recognition, visualization and information mining. Dr. Liu has published more than one hundred academic papers in professional journals and conference proceedings.

Kumares C. SINHA
Ph.D.

Olson Distinguished Professor of Civil Engineering
Purdue University
West Lafayette, Indiana, USA
+1 765-494-2211
sinha@purdue.edu

Dr. Sinha has been involved in transportation education, research and practice for five decades. He has authored or co-authored more than 450 technical publications and a book on transportation investment decision making. He has served as the President of the Transportation & Development Institute of the American Society of Civil Engineers, President of the Research and Education Division of the American Road and Transportation Builders Association, President of the Council of University Transportation Centers and as a member of the Executive Committee of the Transportation Research Board. He is currently on the editorial board of five journals including the Journal of Transportation Engineering (Editor-in-Chief Emeritus). He is a Member of the US National Academy of Engineering.

Kelvin C.P. WANG
Ph.D.

Chair Professor
Oklahoma State University
1414 S. Savannah Dr., Stillwater, OK 74074, USA
+86 18140014890
kcpwang@gmail.com

Dr. Wang received degrees in China and the US. He started his professional career at the Arizona Department of Transportation (ADOT) in 1989. Later he became a faculty member at the University of Arkansas and Oklahoma State University. He is known for his service at ASCE and became president of ASCE Transportation and Development Institute in FY 2017. He has worked on automated survey of surface distresses on transportation infrastructure. His technologies are used in the US, China, Japan, South Africa, and Brazil. His innovations and leadership experience earned him two ASCE awards (2011 Masters, and 2018 Turner).

Ken YANG

Senior Systems Engineer
AECOM
27777 Franklin Road, Suite 2000, Southfield, MI 48034, USA
+1 248-204-4928
kyang@aecom.com

Mr. Qingyan (Ken) Yang works as a Senior Systems Engineer at AECOM. Mr. Yang specifically experiences in designing and building the integrated ITS solutions for transportation systems. He has been involved in numerous emerging ITS principles, technology and programs for the past 16 years. At his position, Mr. Yang works directly with valued clients to develop unique ITS solutions through application of the systems engineering project development process; Supports ITS/TOC Operations with the development of custom TOC focused data-driven analysis solutions, and leads the planning, development, testing, implementation and troubleshooting of software solutions for ITS based applications such as websites, data analysis tools, and performance assessment tools. His current focuses include Effective integration and optimization of transportation system; ITS/ Transportation data processing, fusing, archiving and visualization; Data –driven analytics and software solutions for ITS/TOC operations; Performance based advanced traffic signal control and arterial operations, Connected Vehicle data and applications. Mr. Yang received his B.S. and M.S degrees in Electrical Engineering in 1989 and 1992 from Dalian Maritime University, P.R.China, and a M.S. degree in Civil Engineering (Intelligent Transportation System) in 1999 from Michigan State University, East Lansing, Michigan. He has been working as a grant researcher of the "Eisenhower Grant Research Fellowship" at the US Department of Transportation's Turner-Fairbank Highway Research Center in 1998. Mr. Yang has more than 20 published conference and journal papers.

Lu DENG
Ph.D.

Professor
Hunan University
South Lushan Rd, Yuelu District, Changsha, Hunan 410082, China
+86 731-88822118
denglu@hnu.edu.cn

Dr. Lu Deng is a Professor in the College of Civil Engineering at Hunan University, China. He is an associate editor of the Journal of Bridge Engineering, ASCE. Dr. Deng obtained his Ph.D. degree in Civil Engineering from Louisiana State University in 2009. He joined Exxonmobil as a research engineer and worked for 3 years before joining Hunan University as a full professor in 2012. Dr. Deng's main research interests are vehicle-bridge coupled vibration, bridge weigh-in-motion, vehicle weight limit, etc. He has published over 50 peer-reviewed technical papers in international journals and received a few academic awards.

Lili DU

Ph.D.

Associate Professor
University of Florida
512D Weil Hall, Gainesville, FL, 32611, USA
+1 352-2947805
lilidu@ufl.edu
www.essie.ufl.edu/~lilidu

Dr. Du is an associate professor at University of Florida. She received B.S. in Mechanical Engineering from Xi'an Jiaotong University; M.S. in Industrial Engineering from Tsinghua University; Ph.D. in Decision Sciences and Engineering Systems with a minor in Operations Research and Statistics from Rensselaer Polytechnic Institute, and worked as a Research Associate at Purdue University. Dr. Du's research focuses on Big data analysis, optimization and control for (Connected and Autonomous) Transportation Systems, Interdependent Infrastructure Network Modeling, Distributed Computation and Traffic Flow Analysis. Her research has been funded by NSF, IDOT, Toyota, and UTC in USA. Dr. Du is a recipient of NSF-CAREER Award in 2016 and Nayar Prize I at IIT in 2015. Dr. Du serves on the editorial boards of Transportation Research Part B, and International Journal of Transportation Sciences and Technology. She is the Chair of TRB Subcommittee on Emerging Technologies in Network Modeling, and a member of TRB Committee on Transportation Network Modeling and serves on the editorial board too.

Liang GAO

Ph.D.

Professor, Vice Dean of the School of Civil Engineering.
Beijing Jiaotong University
No.3 Shangyuancun
Haidian District, Beijing, China
+86 10-51687243
lgao@bjtu.edu.cn
faculty.bjtu.edu.cn/6345/

Dr. Liang Gao is a China-born railway scientist. He has made significant contributions to the development of HSR (high-speed railway) engineering on both basic theories and practical applications. He has created the key technology system of continuously welded rail in HSR (high-speed railway) under complex environment, which has become one of the core technologies of China's HSR. His work has sorted out many international technical problems in the HSR field, and the achievements have been not only applied in many Chinese railway projects, but also used in railways overseas. He has been honored with the first class of the State Scientific and Technological Progress Award and the Scientific and Technological Award of the Ho Leung Ho Lee Foundation.

Louay N. MOHAMMAD
Ph.D.

Irma Louise Rush Stewart Distinguished Professor
Louisiana State University
4101 Gourrier Ave, Baton Rouge, LA 70808, USA
+1 225-767-9126
Louaym@Lsu.Edu
www.lsu.edu/eng/cee/people/Louay.php

Dr. Louay Mohammad is a Professor of Civil and Environmental Engineering and holder of the Irma Louise Rush Stewart Distinguished Professorship and Transportation Faculty Group Coordinator at Louisiana State University. He also serves as the director of the Engineering Materials Characterization and Research Facility at the Louisiana Transportation Research Center. He is a registered professional engineer in Wyoming and an American Society of Civil Engineers Fellow. Dr. Mohammad teaches and conducts research in the areas of Highway Construction Materials, Pavement Engineering, Accelerated Pavement Testing, Advanced Materials Characterization and Modeling, and Infrastructure Sustainability. Dr. Mohammad is a national and international leader in fundamental characterization and modeling of highway construction materials, and asphalt pavement performance with more than 31 years of industrial and academic experience. Dr. Mohammad has served as the principal or co-principal investigator on more than 62 research projects totaling over $28.6M. He has authored/coauthored 337 publications in pavement engineering including 200-refereed journal articles, 64 refereed proceedings papers, 59 technical reports, and 10 invited articles in technical magazines. He delivered over 377 presentations, of which 203 are keynote and invited presentations at national and international conferences. Dr. Mohammad is a co-holder of a patent on Wet Process for Recycling Asphalt Shingle in Asphalt Binder for Asphalt Paving Applications.

Lijun SUN
Ph.D.

Assistant Professor
McGill University
817 Sherbrooke Street West, Macdonald Engineering Building 492, Montreal, Quebec H3A 0C3, Canada
+1 514-398 2198
lijun.sun@mcgill.ca
smart.lab.mcgill.ca

Lijun Sun is an Assistant Professor in the Department of Civil Engineering at McGill University. He obtained his PhD degree in Transportation Engineering from the National University of Singapore in 2015, and earned his Bachelor degree in Civil Engineering from Tsinghua University (China) in 2011. Prior to joining McGill, he was a Postdoctoral Associate at MIT Media Lab. His current research centers on smart transportation, developing innovative methodologies and applications to address efficiency, resilience, and sustainability issues in urban transportation. His research has been published in various transportation and interdisciplinary journals and featured in popular media outlets including Wired, Scientific American, and MIT Technology Review. He is named as Chan Wui & Yunyin Rising Star Fellow in Transportation in 2019.

Lin Wang
Ph.D.

Deputy Director, Professor
Research Institute of Highway Ministry of Transport
No. 8 Xitucheng Road, Haidian District, Beijing, China
+86 10-62079046
wanglin@itsc.cn

Professor Wang is working as the deputy director of Intelligent Transportation Research Center in Research Institute of Highway Ministry of Transport and the off-campus tutor at Southeast University. He was graduated from Research Institute of Highway Ministry of Transport with MS in 2005. Researcher Wang has completed 1 sub-project of National Sci-Tech Support Plan, 1 manifestation project of National Sci-Tech Support Plan, 2 projects founded by Beijing Sci-Tech Commission (BSTC), and 8 provincial and ministerial projects. One project he participated in has won the 2nd National Progress Award for Science and Technology. Also, he is presiding many in-progress research projects founded by BSTC. He has published nearly 20 academic papers, and authorized 9 national patents (3 invention patents and 6 utility model patents).Field of Research:Automatic Driving, Traffic Safety, Intelligent Transportation System.

Linbing WANG
Ph.D.

Professor
Civil engineering materials and transportation infrastructure at Virginia Tech
National Center for Materials Service Safety of University of Science and Technology Beijing

Dr. Linbing Wang is a professor in civil engineering materials and transportation infrastructure at Virginia Tech, and an adjunct professor at the National Center for Materials Service Safety of University of Science and Technology Beijing. He is the founding chair for the Committee on Mechanics of Pavements, and the current Chair of the Nanomechanics and Micromechanics committee of the Engineering Mechanics Institute of ASCE. Dr. Wang has led more than 65 research projects funded by NSF, NCHRP, FHWA, DoD, DoA, DoTs, MOST and CNSF. His research areas include civil infrastructure materials, pavement design and evaluation, pavement related geotechnical solutions, sensor development, IoT monitoring platform, and infrastructure safety. Specific foci of his research include multiscale characterization, modeling and simulation; smart and sustainable technologies; energy harvesting; health monitoring; innovative infrastructure assessment and performance predictions; high performance and multifunctional materials; pavement testing and mechanistic pavement design; infrastructure preservation and management; and IoT sensor network for structural health monitoring. Dr. Wang has served as member of committees of TRB, ASCE, and panels of NCHRP and NSF. He is the author of Mechanics of Asphalt, Microstructure and Micromechanics, McGraw Hill, and author/co-author of more than 200 publications. Dr. Wang has organized/co-organized a number of international workshops, symposiums, conferences and hosted student/faculty exchanges with Chinese universities and universities in Europe.

Lei ZHANG

Ph.D.

Herbert Rabin Distinguished Professor
Director, Maryland Transportation Institute
University of Maryland
1173 Glenn Martin Hall, College Park, MD 20742, USA
+1 301-405-2881
lei@umd.edu
mti.umd.edu

Dr. Lei Zhang is the Herbert Rabin Distinguished Professor of Civil Engineering and Director of the Maryland Transportation Institute at the University of Maryland. Dr. Zhang's research focuses on innovative mobility solutions, transportation big data, and next-generation transportation modeling tools that are large-scale, real-time, and driven by emerging data. Dr. Zhang has published more than 250 peer-reviewed papers and numerous technical reports, with external funding support from NSF, USDOT, USDOE, FHWA, SHRP2, AASHTO, NCHRP, and other federal and state agencies and private foundations. Dr. Zhang is the COTA President and recently served as a member on the White House Expert Panel on 21st Century Clean Transportation System. Dr. Zhang is a recipient of the National Science Foundation CAREER Award, TRB Fred Burggraf Award, and US DOS APEC Science Prize.

Lu ZHEN

Ph.D.

Professor and Associate Dean
School of Management at Shanghai University
lzhen@shu.edu.cn

Dr. Lu Zhen is a Professor and Associate Dean in the School of Management at Shanghai University. He has been awarded Changjiang Young Scholar, National Nature Science Fund for Excellent Young Scholar, Outstanding Talents of Shanghai, Eastern Scholars of Shanghai, and Shuguang Scholars of Shanghai. He got his B.S. and Ph.D. degrees from Shanghai Jiaotong University in 2003 and 2008, respectively. He worked at National University of Singapore as a postdoctoral scholar before joining Shanghai University in 2011. His research interests include optimization in port and shipping management, logistics, and supply chain, and knowledge management. He has published 69 SCI and SSCI journals including Transportation Science, Transportation Research Part B, Naval Research Logistics, and IISE Transactions. He is the PI of 15 projects including four at the national level. He has served as an associate editor/editor of four SCI/SSC journals and two EI journals, and the Fellow of the Operational Research Society (U.K.).

Lin ZHAO
Ph.D.

Professor
Tongji University
Siping Road 1239, Tongji University, Shanghai, China
+86 13564696598
zhaolin@tongji.edu.cn

Prof. Zhao participates in editing three monographs, including 'Wind-resistance of Large-span Suspension Bridge', 'Wind-resistance of Large-span Arch Bridge' and 'Wind-resistance Theory and Practice of Existing Bridges'. Field tests of typhoon wind environment are combined for developing engineering typhoon theory and numerical simulation algorithm, thereby improving prediction accuracy of extreme wind environment. Aerodynamic loading effects of typical structures under stronger turbulence and nonlinear effects of structure performance and aerodynamcis are studied, thereby perfecting the wind effect analysis theories of large-span bridges and large cooling towers under various disaster climate modes, solving various key scientific and technology problems of long-span bridges in wind-rain-structure coupling environment aerodynamic effect and large cooling tower wind effect experiment and theoretical analysis. Currently, more than 160 important academic papers have been published, wherein more than 100 papers are indexed by SCI and EI databases. 5 national invention patents, 6 utility model technology patents and 11 software copyrights are granted. The above research results achieve 5 scientific and technological progress grades, involving first prize and second prize at the provincial and ministerial levels, respectively.

Liang ZHENG
Ph.D.

Associate Professor
Central South University
No.22 Shaoshan South Road, Changsha, Hunan, China
+86 15974236701
zhengliang@csu.edu.cn
stte.csu.edu.cn/bk/?id=Zheng%20Liang

Liang Zheng received the B.S. degree from Central South University, Changsha, China, in 2008, and the M.E. and Ph.D. degrees from Tianjin University, Tianjin, China, in 2010 and 2013, respectively. From 2011 to 2012, he spent one year as a Joint Doctoral Student with the University of Wisconsin, Madison, WI, USA. Since 2013, he has been with the School of Traffic and Transportation Engineering, Central South University, as an Associate Professor and Doctoral Supervisor. His research interests cover Simulation-based traffic management & control optimization; Traffic flow theory & modeling; Traffic flow prediction. Prof. Zheng has hosted 5 National and Provincial/Ministerial Projects, 1 Sublimation YuYing Plan in Central South University, and 1 Innovation Driven Plan of Central South University. Meanwhile, he has also published over 40 papers, including over 36 papers in SCI/SSCI-indexed international journals.

Muhammad AMER
Ph.D.

Director, Transportation & Development Institute (T&DI)
American Society of Civil Engineers (ASCE)
ASCE World HQ, 1801 Alexander Bell Drive, Reston, VA 20191, USA
+1 703-295-6392
mamer@asce.org
www.asce.org

Muhammad Amer heads the Transportation & Development Institute (T&DI) of the American Society of Civil Engineers (ASCE). Mr. Amer has a strong passion for leading the wave of engineering smart mobility for the smart city to accommodate and amplify the benefits from the game-changing automation, energy, and communication technologies in transportation and development. Mr. Amer has over 20 years of combined experience in Civil and Transportation Engineering program development and management, US federal, state, and local government grants development and management, technical consulting, entrepreneurship, and team leadership on multimillion-dollar programs. He brings in-depth understanding of strategic partnership development and relationship building in the public and private sector environments in all areas and modes of transportation.

Meng GUO
Ph.D.

Professor
Beijing University of Technology
100 Pingleyuan, Chaoyang District, Beijing, China
+86 18001205566
gm@bjut.edu.cn
yanzhao.bjut.edu.cn/ds/3/1/2018712/15313634380247637_1.html

Dr. Guo has conducted research in several areas related to the design and performance of bituminous materials. He has published over 60 publications in refereed journals and conference proceedings. The H-index is 17 in Google Scholar. He is serving as the Editorial Board Member of eight international journals, including Road Materials and Pavement Design, ASCE International – Journal of Testing and Evaluation. He is also the member of Standing Committee on Asphalt Binders (AFK20), Standing Committee on Sealants and Fillers for Joints and Cracks (AHD25) of Transportation Research Board (TRB). He has won the Young Elite Scientists Sponsorship Program by CAST, the Best Paper Award of 1st International Doctoral Annual Symposium on Transportation, and seven Outstanding Reviewer Awards of Elsevier journals.

Meng LI
Ph.D.

Associate Professor, Assistant Dean
Tsinghua University
Beijing 100084, China
+86 15601295508
mengli@tsinghua.edu.cn
www.civil.tsinghua.edu.cn/ce/essay/268/902.html

Dr. LI is an Associate Professor and the Assistant to Dean for the School of Civil Engineering Tsinghua University, and Executive Director of Tsinghua-Daimler Joint Research Center for Sustainable Transportation. He is a recipient of the Outstanding Young Scholar Award granted by the National Natural Science Foundation of China in 2016. Dr. Li's research interests involve transportation big data modelling and analysis, and planning and management for future mobility service and intelligent transportation systems. He has published more than 70 refereed papers in leading academic journals and conferences. He is an editorial board member of JITS, a recipient of a National Science & Technology Progress Award Grade 2 in 2011, a Science & Technology Progress Award Grade 1 by Ministry of Public Security in 2018.

Michael Walton
Ph.D., P.E.

Ernest H. Cockrell Centennial Chair in Engineering
Department of Civil, Architectural and Environmental Engineering
The University of Texas at Austin
301 E. Dean Keeton St., Stop C1761
Austin, TX 78712, USA
+1 512-471-1414
cmwalton@mail.utexas.edu

Dr. C. Michael Walton is Professor of Civil Engineering and holds the Ernest H. Cockrell Centennial Chair in Engineering at The University of Texas Austin. Dr. Walton researches intelligent transportation systems and intermodal freight logistics in addition to transportation systems engineering, planning, operations and policy analysis. Dr. Walton was elected a member of the U.S. National Academy of Engineering in 1993. In other professional society affairs he is a past Chair of the Board of the American Road and Transportation Builders Association (ARTBA), past President of the Board of Governors of the Transportation and Development Institute of the American Society of Civil Engineers (ASCE), a founding member and past Chair of the Board of Directors of the Intelligent Transportation Society (ITS) of America and a past Chair of the Transportation Research Board (TRB) Executive Committee. He has contributed to more than 500 publications in the areas of ITS, freight transport, and transportation engineering, planning, policy and economics, and he has delivered several hundred technical presentations.

Meng Wang
Ph.D.

Assistant Professor
Delft University of Technology
Stevinweg 1, 2628 CN, Delft, The Netherland
+31 0 6417 43235
m.wang@tudelft.nl
www.tudelft.nl/en/ceg/heat-lab/

Dr. Meng Wang is Assistant Professor at TU Delft. He obtained his BSc (2003) in Tsinghua University, MSc (2006) in Research Institute of Highway, Ministry of Transport, China and PhD with Honor (2014) at TU Delft. He has won IEEE ITS Society Best PhD Dissertation Award (2015). He serves as members for technical committees of IEEE ITS Society, TRB and WCTRS, and is Vice President of Europe Chapter of COTA. His main research interests are modeling, control design & impact assessment of automated and cooperative driving systems.

Min YANG
Ph.D

Professor Vice Dea
School of Transportation, Southeast University
Jiulonghu Campus, Nanjing, Jiangsu, China
+86 25 52091271
yangmin@seu.edu.cn
tc.seu.edu.cn/2011/0723/c860a10474/page.htm

Dr. Min Yang serves as the associate dean of School of Transportation at Southeast University and is the Deputy Secretary of 2 Committees i.e., Jiangsu Comprehensive Transportation Committee and Science and Technology Committee for Young Scholars in Communications and Transportation Association of China. He's honored as the Distinguished Young Professor at Southeast University and awarded the honor of High-level Talent from Six Talent Summits in Jiangsu Province. His research focus includes travel demand and behavioral analysis, and the theory of urban public transportation planning. He has published more than 40 SCI or EI journal papers in international journals and granted 16 national patents in China. He has presided or participated in over 10 national research projects and won more than 10 provincial or ministerial science and technology awards.

Nengchao LYU
Ph.D.

Associate Professor
Wuhan University of Technology
125Mailbox, 1178 Heping Ave., Wuhan, China
+86 13419546709
lnc@whut.edu.cn wts.whut.edu.cn/dwjs/201604/t20160408_226782.shtml

Nengchao Lyu, Ph.D. supervisor, Associate Professor and the Young Top Talents, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China. He visited the University of Wisconsin-Madison as a visiting scholar from 2008 to 2009. His research interests include advanced driver assistance system (ADAS) and intelligent vehicle (IV), intelligent highway, and traffic safety evaluation. He has hosted 3 National Nature Science Funds related to driving behavior and traffic safety; he has finished several basic research projects sponsored by the National Science and Technology Support Plan, Ministry of Transportation, etc. He has practical experience in safety evaluation, hosted over 10 highway safety evaluation projects. During his research career, he published more than 80 papers. He has won 2 technical invention awards of Hubei Province. He also won science and technology Award of Chinese Intelligent Transportation Association and Chinese Artificial Intelligence Institute. He was awarded the title of Transportation Youth Technology Talent, and he is chair of the "Traffic Safety Analysis and Improvement" Technical Committee for WTC.

Nagui Michel ROUPHAIL
Ph.D.

Distinguished University Professor
North Carolina State University
909 Capability Drive, Suite 3600
North Carolina, USA
+1 919-515-1154
rouphail@ncsu.edu

Dr. Nagui Rouphail is a Distinguished University Professor at NC State University. He is an internationally recognized scholar in the areas of highway capacity and operations, traffic simulation and the interface of traffic flow quality, driver behavior and vehicle fuel use and emissions. He published over 165 refereed journal articles, including winning13 best paper awards. Dr. Rouphail authored a chapter on Traffic Congestion Management in the Handbook on Environmentally Conscious Transportation published by John Wiley and Sons. His publications have generated over 9,200 citations, with a publication H-index of 43. Rouphail served as Associate Editor for several transportation journals including Transportation Science, Transportation Research Part B: Methodological, and the Journal of ITS. He chaired the ASCE Traffic Engineering Committee and the Uninterrupted Flow group of the Highway Capacity and Quality of Service Subcommittee.

Nan ZHENG
Ph.D.

Senior Lecturer
Monash University
VIC 3800, Melbourne, Australia

nan.zheng@monash.edu
www.monash.edu/engineering/nanzheng

Dr. Nan Zheng received his BSc, MSc. and PhD degrees, in Transportation Engineering, from the Southeast University (China), Delft University of Technology, École polytechnique fédérale de Lausanne (EPFL), in 2007, 2009, and 2014, respectively. From November 2014 to September 2016, he was a post-doc researcher at the Federal Institute of Technology Zurich (ETHZ). Since October 2016, he was with Beihang University in Beijing, as an Associate Professor in the School of Transportation. He recently joins the Institute of Transport Studies at Monash University, as a Senior Lecturer. Dr. Nan Zheng's research interests include traffic flow theory, traffic big data, urban traffic operation and control, multi-modal and new-generation traffic management.

Pan LIU
Ph.D.

Professor
School of Transportation,
Southeast University

2 Southeast University Road, Nanjing, Jiangsu, China
liupan@seu.edu.cn

Dr. Liu is a recipient of the Excellent Young Scientists program of NSFC, and a Changjiang Young Scholar. In past years, he has conducted comprehensive research work regarding the fundamental theory and key techniques of roadway safety design. The applicant has served as PIs for more than 10 national projects, including a project supported by the National Key R&D Program of China, six projects supported by the National Natural Science Foundation of China (NSFC), and a project supported by the National High Technology Research and Development Program of China, and numerous provincial and ministerial projects. The applicant has published more than 150 papers in peer-reviewed journals and conferences. In total, 90 papers were indexed by SCI/SSCI, and in which the applicant has served as the first/corresponding authors for 56 papers. 126 papers were indexed by EI. The applicant also holds 46 patents. The published papers have been cited for 2022 times in Google Scholar (H-index=24), and for 735 times in Web of Science. Some of the research results have been incorporated into various guidelines and standards in China and other countries, including the most recent edition of the Highway Capacity Manual in the United States. The applicant is the recipient of the Jiangsu 54 Youth Medal, the Henry Fok Young Teacher, and the "Wang Binggang" Young Scholar award. He is also the recipient of several national and provincial scientific awards, including a second class award of the state Science and Technology Progress Award, a first class award of the Technological Invent Award of the national Ministry of Education, a first class award of the Science and Technology Progress Award of the China Highway and Transportation Society, a first class award of the Science and Technology Progress Award of ITS China, and a second class award of the Science and Technology Progress Award of the national Administration of Public Security.

Pingfan LI
Ph.D.

Associate Researcher
Traffic Management Research Institute of the Public Security Ministry (TMRI)
No. 88 Qianrong Road,Binhu District, Wuxi, Jiangsu, 214151, China
+86 510-85505258
13656190537@163.com

Dr. Pingfan Li, Associate researcher, is currently the deputy director of the road traffic accident identification research center of TMRI, the director of the Traffic accident Identification and analysis research team of National Engineering Laboratory for Road Transportation Integrated Optimization and Safety Analysis Technologies, The major research interests involve the traffic survey and identification technique. He mainly engage in road traffic accident inspection and identification, participated in the writing of the Standards: "Investigation on trace and physical evidence of road traffic accident GA41-2014", "Specifications for construction of police road traffic accident identification institution GA/T1272-2015", "Identification for the speed of vehicle involved in road traffic accident-GBT33195-2016", "The filing document of road traffic accident-GA40", attended the survey works of 25 Serious Traffic accidents in recent years , and have some practical experience in the accident inspection, identification, reconstruction and analysis.

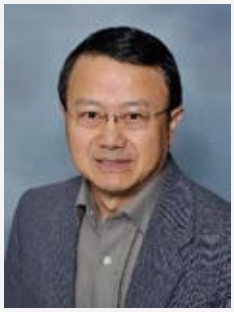
Pitu B.MIRCHANDANI
Ph.D.

Professor of Computing, Informatics, Decision Systems Engineering
Arizona State University
CIDSE School, ASU

699 S. Mill Avenue, Tempe, AZ 85281, USA
+1 520-591-1882
pitu@asu.edu

Dr. Pitu Mirchandani [UCLA, BS/MS in Engineering; MIT, SM (Aero and Astro) and ScD in Operations Research] is the AVNET Chair Professor for Supply Chain Networks. He is the Director of the ASU's Advanced Traffic and Logistics Algorithms and Systems Laboratory (ATLAS), the Chief Scientist of ASU's DHS Center for Accelerating Operations Efficiency, and a Senior Scientist of ASU's Global Institute of Sustainability. Mirchandani has extensive background in Optimization (including network optimization, AI, and complexity guaranteed heuristics), Predictive Analytics (including applied statistics, estimation methods and machine learning) and Stochastic Control. His expertise includes Dynamic Stochastic Networks and their management/control, and has developed models and systems for making strategic/tactical/operational decisions in stochastic networked environments, with typical applications in transportation and logistics. He is a Fellow of INFORMS and a Fellow of IEEE.

Ping YI
Ph.D.



Professor and Director
Department of Civil Engineering
The University of Akron
Akron, OH 44325-3905, USA
+1 330-972-7294
pyi@uakron.edu
www.uakron.edu/engineering/CE/profile.dot?u=pyi

Dr. Ping Yi is a professor in the Dept. of Civil Engineering of The Univ. of Akron. His educational background includes a PhD degree from University of Minnesota, a M.S. from Washington State University, and a B.S. from Wuhan University. His research mainly focuses on traffic control and safety, sensor and information technologies, as well as system reliability and statistical data modeling. Dr. Yi was a research scientist and principal engineer in the Minnesota DOT, where he managed several federally funded ITS operational test projects over sensors testing, adaptive signals, advanced parking, and incident/special event management. After joining the academia, Dr. Yi has published widely in refereed journals and completed many federally and state funded projects. He has served many professional organizations and societies such as ASCE, ITE, TRB, AASHTO, NRC-IDEA, etc.

Qiang MENG
Ph.D.

Professor
Department of Civil and Environmental Engineering, National University of Singapore
BLKE1-07-10, Engineering Drive 2, 117576, Singapore
+65 6516-5494
ceemq@nus.edu.sg
www.eng.nus.edu.sg/civil/people/cvemq/cvemq.html

Dr. Qiang Meng is a Professor in the Department of Civil and Environmental Engineering (CEE) at National University of Singapore (NUS), the co-director of NUS-LTA Transportation Centre as well as the director of Centre for Transportation Research (CTR) of CEE. His research mainly focuses on transportation network modeling and optimization, shipping and intermodal freight transportation analysis, and quantitative risk assessment of transport operations. He has published more than 170 articles in the leading transportation and logistics journals, with the SCI H-index rate of 38 and the total SCI citations of 4554. He is the Co-Editor-in-Chief of Transportation Research Part E and Associate Editor of Transportation Research Part B. He has clinched a number of research awards and prizes, including Engineer Research Award 2018 of Faculty of Engineering at NUS, Chang Jiang Scholars Chair Professorship awarded by the Ministry of Education of PR China in 2017, Outstanding Alumni Award of the Department of Civil and Environmental Engineering at The Hong Kong University of Science and Technology in 2016, Dean's Chair in Faculty of Engineering at NUS in 2015, the 13th World Conference on Transportation Research (WCTR) Society Prize for the best paper (2013).

Qiong TIAN
Ph.D.

Professor
Beihang University
37Xueyuan Rd, Beijing, 100191, China
+86 10-82317871
tianqiong@buaa.edu.cn

Dr. Qiong TIAN is a full professor of Transportation Economics and head of the Department of Behavioral and Operations Management at Beihang University. He received his BSc and PhD degrees in Management Science from Beihang University. His research interests include travel behavior, transportation network modeling and optimization, and logistics. He has published more than 20 papers in peer-reviewed journals, such as Transportation Research Part B/C/E, Transportmetrica, Operations Research Letters.

Quan YUAN
Ph.D.

Associate Researcher
Director of Center Office
Center for Intelligent Connected Vehicles and Transportation, School of Vehicle and Mobility, Tsinghua University
Qinghuayuan, Haidian, Beijing, 100084
+86 13911716021
yuanq@tsinghua.edu.cn
www.researchgate.net/profile/Quan_Yuan23

Dr. Quan Yuan is an associate researcher of School of Vehicle and Mobility at Tsinghua University. He was a visiting scholar in the University of Washington from 2013 to 2014. His research focuses on traffic safety, accident analysis, human factors and intelligent vehicle. As an expert in the research area of traffic accidents, he has analyzed over 5000 traffic crashes in China. He got Scientific and Technical Awards of ITS China in 2013, Excellent Teaching Award of Tsinghua University in 2014, and Best paper Award in COTA CICTP2018. Now he is served as the reviewers of Transportation Research Part A&D&F, Int. J. Transportation Science and Technology, Int. J. of Automotive Technology, et al. He is the chairman of automated driving branch in the World Transport Convention (WTC), the editorial director of J. of Intelligent Connected Vehicle and the academic editor of PLOS ONE.

Robert BERTINI
Ph.D.

Professor
Civil and Environmental Engineering and Director, Center for Urban Transportation Research
University of South Florida
4202 E. Fowler Ave., Tampa FL 33620 USA
+1 805-235-3364
rbertini@usf.edu
www.bertini.eng.usf.edu

Robert L. Bertini, is Director of the Center for Urban Transportation Research (CUTR) and Professor of Civil and Environmental Engineering at the University of South Florida. Bertini's primary research interests are in sustainable transportation, traffic flow theory, intelligent transportation systems (ITS), multimodal transportation "big data" and proactive traffic management and operations. He chairs the Transportation Research Board Operations Section and received the National Science Foundation CAREER Award. Bertini earned his BSCE (cum laude) from California Polytechnic State University San Luis Obispo, an MSCE from San Jose State University, and a Ph.D. in Civil Engineering from the University of California at Berkeley. Dr. Bertini has been recognized as a Fellow with the American Society of Civil Engineers.

Renyong GUO
Ph.D.

Professor
School of Economics and Management
Beihang University
Beijing 100191, China
guorenyong@buaa.edu.cn

Dr. Ren-Yong Guo is currently a professor in the School of Economics and Management, Beihang University. He received his PhD degree from Beihang University, China. Dr. Guo specializes in modeling and analyzing of pedestrian flow, and network traffic flow assignment. He has published more than 60 research papers in such journals as Transportation Research (Parts B and C), Transportation Science, Journal of Statistical Mechanics, Simulation, and Physical Review E. His doctoral dissertation won the Award Nomination of the Excellent Doctoral Dissertation of China in 2011. He obtained the Program for New Century Excellent Talents in University of China in 2012. He obtained the National Natural Science Foundation of China for Excellent Young Scholars in 2016.

Rui JIANG

Ph.D.

Professor
Beijing Jiaotong University
Shuangyuancun 3, Beijing 100044, China
+86 10-51687375
jiangrui@bjtu.edu.cn

Rui Jiang received the B.E. and Ph.D. degrees from the University of Science and Technology of China, Hefei, China, in 1998 and 2003, respectively. He was an Alexander von Humboldt Research Fellow from 2005 to 2006 and a Japanese Society for Promotion of Science Research Fellow from 2008 to 2009. He has published over 200 SCI indexed papers in journals and conferences including TR-B, TR-C, TS, ISTTT, which were cited over 4000 times. He has won the MOE Natural Science first class Award (rank 2nd) in 2019 and the Anhui province Science and Technology second class Award (rank 1st) in 2011.

Rongfang (Rachel) LIU

Ph.D.

Professor
NJIT
University Heights, Newark
NJ 07102, USA
+1 973-596-5884
Rachel15liu@gmail.com

Dr. Rongfang (Rachel) Liu is a transportation professor, who has duel affiliation with Department of Civil and Environmental Engineering and School of Management in NJIT. Dr. Liu has immersed herself in automated guideway transit research for more than two decades and is one of the earlier researchers on automated road vehicles. Her latest book: Automated Transit: planning, Operation and Applications (2016), has correctly predicted the Google car model as Automated Personal Transit (APT), i.e. an automated transit service operated by a third party like Google or NJ Transit.

Roger MILLAR
Ph.D.

Secretary of Transportation
Washington State, USA
310 Maple Park Ave SE
Olympia, WA 98504-7316, USA
+1 360-705-7054
Millarr@wsdot.wa.gov
www.wsdot.wa.gov

Roger Millar joined the Washington State Department of Transportation as Deputy Secretary in October 2015 and was appointed Secretary of Transportation in August 2016. He oversees an agency that is the steward of a complex, multimodal transportation system, and responsible for ensuring that people and goods move safely and efficiently. Millar is a Fellow of the American Society of Civil Engineers and a Fellow of the American Institute of Certified Planners. He is a member of the ASCE Board of Direction, current president of the Western Association of State Highway and Transportation Officials. He is a member of the Intelligent Transportation Society of America Board of Directors, the National Complete Streets Coalition Steering Committee, and co-chair of the Cooperative Automated Transportation Coalition. Millar graduated from the University of Virginia in 1982.

Rongshan YANG
Ph.D.

Professor
Southwest Jiaotong University
111 North Section of Second Ring Road, Chengdu, Sichuan, China
+86 13258339858
yrs@swjtu.edu.cn
userweb.swjtu.edu.cn/Userweb/yrs123/index.htm

Rongshan Yang, Doctor of Engineering, Professor of Road and Railway Engineering Department in Southwest Jiaotong University, who has a long-term commitment to the study of wheel/rail dynamics, heavy load track structure and its maintenance, etc. He has fulfilled more than 50 national, provincial, ministerial, enterprises' and institutions' level scientific research projects. He has obtained about 10 leading achievements on research, and published 100 papers, 4 monographs and 2 textbooks as the chief editor. Dr. Yang has filed 12 patents and received more than 5 Ministerial and Provincial-Level Science and Technology Awards.

Rongjie YU
Ph.D.

Associate Professor
College of Transportation Engineering, Tongji University
4800 Cao'an Highway, Shanghai, China
+86 21-65983946
yurongjie@tongji.edu.cn
tjjt.tongji.edu.cn/index.php?classid=9402&j_id=73&t=show

Dr.Rongjie Yu is an Associate Professor at College of Transportation Engineering, Tongji University. He got his PhD from University of Central Florida. His main research area is traffic safety analysis, active traffic management, driving behavior analysis, and autonomous vehicle safety test & evaluation. Focused on the research area, he is now the PI for several projects funded by the National Natural Science Foundation of China and other organizations. Dr.Rongjie Yu has published and co-authored more than 30 SCI/SSCI indexed journal papers, such as Accident Analysis and Prevention, Transportation Research Par C. And he is also the reviewer for a number of key academic journals in the traffic safety field.

Renxin ZHONG
Ph.D.

Associate Professor
School of Intelligent Systems Engineering
Sun Yat-Sen University
Guangzhou Higher Education Mega Center
Guangzhou, Guangdong, China
+86 18312057487
cezhong@gmail.com

Dr. Renxin Zhong's main research interests include traffic incident detection and management strategies; machine learning and data mining for transportation big data analysis; optimal and nonlinear control theory with applications in transportation engineering. He has received several prizes and awards for his research works including the Outstanding Dissertation Paper Award and the Gordon Newell Memorial Prize. His paper was shortlisted for the best paper award at IEEE ITSC 2018. His team won the third places in the KDD Cup 2017 (freeway travel time and traffic flow estimations) \& KDD Cup 2018 (urban pollutant prediction). Dr. Zhong serves as an associate editor for Transportmetrica B and a guest editor for Transportmetrica A.

Shaaban ABDALLAH

Ph.D.

Professor
Hyperloop and Computational Fluid Dynamics
Dept. of Aerospace Engineering & Engineering Mechanics
College of Engineering and Applied Science
The University of Cincinnati
Cincinnati, Ohio 45221, USA
+1 513-556-3321
abdallsa@ucmail.uc.edu

Dr. Shaaban Abdallah has two US patents on centrifugal compressors and three disclosures with the University of Cincinnati (UC) on medical devices. He has engaged in the research of Hyperloop since 2015, a future means of transportation that will achieve speeds of up to 760mph. Nowadays, Dr. Abdallah is establishing a Hyperloop Study Center at UC, gathering faculty, students and valued vendors to help make the Hyperloop a reality across the US and internationally. In 2019 SpaceX competition, Dr. Abdallah led his UC Hyperloop team, collaborating with Purdue University and University of Illinois to the finals. His team also won the international Dubai award for innovation in project management. Recently, one of Dr. Abdallah's teams, FlyUC, advanced to the 3rd stage of the GoFly competition sponsored by Boeing company.

Suren CHEN

Ph.D.

Professor
Colorado State University
Fort Collins, CO 80523, USA
+1 970-491-7722
schen@engr.colostate.edu
www.engr.colostate.edu/~schen

Dr. Chen is a professor and the coordinator of the Transportation System Engineering program at Colorado State University (CSU). He is the director of the Center for Sustainable and Intelligent Transportation Systems and the program director of USDOT Region 8 University Transportation Center at CSU. His research has been primarily focused on safety and resilience of critical infrastructures, highway traffic, and transportation system. Dr. Chen has published more than 150 technical papers and given over 30 keynote and invited talks. Dr. Chen is an ASCE fellow and was the recipient of ASCE Collingwood Prize. Dr. Chen has been serving as an associate editor and editorial advisory board members of several journals, including "Journal of Bridge Engineering" and "Analytic Methods in Accident Research".

Steve C.S. CAI
Ph.D.

Professor
Louisiana State University
3230D PTH, LSU, Baton Rouge, LA 70803, USA
+1 225-921-3031
CSCAI@LSU.edu
lsu.edu/eng/cee/people/Cai.php

Dr. Cai is the coordinator of Structures Group and director of Bridge Innovative Research and Dynamics of Structures laboratory at LSU. He has been awarded Edwin B. and Norma S. McNeil Distinguished Professorship since 2010 and was elected Fellow of ASCE in 2010. He had his BS, MS and PhD from Zhejiang University, Tsinghua University, and Univ. of Maryland, respectively. His research interests include bridge performance evaluation/instrumentation/testing, traditional and new material applications in infrastructures, performance and hazard mitigation of costal infrastructures (and vehicles) under wave/wind actions, and long-span bridge aerodynamics. He has served on many editorial boards and technical committees. Other major professional services include served as Secretary and Treasurer of American Association for Wind Engineering.

SiyuanGong
Ph.D.

Associate Professor
Chang'an University
The middle section of 2nd Ring Rd, Xi'an, China,710064
+86 18252938060
sgong@chd.edu.cn
http://it.chd.edu.cn/info/1026/8126.htm

Dr. Siyuan Gong is an Associate Professor in the School of Information Engineering at Chang'an University. Before joining Chang'an University in 2018, he was a research associate in USDOT Center of Connected and Autonomous Transportation at Purdue University. His research focuses on the platoon and lane change control of CAV. He published several papers in the top journal of Transportation, such as Transportation Research Part B/Part C. He is the member of Transportation Research Board Emerging Technologies in Network Modeling Subcommittee.

Sigon KIM

Ph.D.

Professor
Seoul National University of Science and Technology
232 Gongreung-Ro, Nowon -Gu, Seoul, South Korea
+81 2-970-6876
sigonkim@seoultech.ac.kr

Sigon Kim is the President of Korean Society of Transportation (KST) and Professor at the graduate school of railway in Seoul National University of Science and Technology (Seoul Tech). He served as a dean for the graduate school. Before becoming a professor, he worked for the Korea Transport Institute as a head of railway division. He also served as the President of Public Transport Forum (PTF). His recent research topics are as follows: railway feasibility study, multi-modal transfer center, and establishment of railway accident emergency response system.

Satish V UKKUSURI

Ph.D.

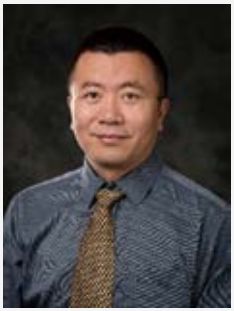
Professor of Civil Engineering
Transportation and Infrastructure Systems Engineering Group
Lyles School of Civil Engineering
Purdue University

HAMP G167D, 550 Stadium Mall Drive
West Lafayette, IN 47907-2051, USA
+1 765-494-2296
sukkusur@purdue.edu

Satish V. Ukkusuri is a Professor in the Lyles School of Civil Engineering, Director of the Urban Mobility Networks and Intelligence Lab and Co-lead of the Sustainable Communities Cluster at Purdue University. His research is in the area of interdisciplinary transportation networks with current interests in data driven mobility solutions, disaster management, resilience of interdependent networks, connected and autonomous traffic systems, shared mobility platforms, dynamic traffic networks and smart logistics. He is a University Faculty Scholar (2017-present), Fulbright Fellow (2015-16), Discovery Park Fellow (2013-15), a selectee of the National Academy of Engineering (NAE) JAFOE conference (2016), a selectee of the National Academy of Science (NAS) Arab American Frontiers of Science, Engineering and Medicine in 2017 and a CUTC/ARTBA Faculty Award (2011) among other awards both nationally and at Purdue. He has published more than 350 peer reviewed journal and conference articles. He is an Area Editor of Networks and Spatial Economics and an Academic Editor of PLOS One among other editorial duties. He is a member of several national and international committees, including the TRB's Freight Logistics and Planning Committee, Emergency Evacuation Modeling Committee and a past member of the Network Modeling Committee.

Songtao LV

Ph.D.



Professor
Changsha University of Science & Technology
960, 2nd Section, Wanjiali RD (S), Changsha, Hunan, China
+86 13975197481
lst@csust.edu.cn

Dr. Lv is a professor from Changsha University of Science and Technology. His research interests include pavement design, performance characterization of pavement material. He established a normalized model of the fatigue performance characterization for pavement materials under different loading conditions. He recently carried out research work on the structure and materials of durable asphalt pavements, and established a new design system for durable asphalt pavement structural with increasing life from top layers to bottom courses. He is a member of the Young Expert Committee of the China Highway Society and a member of Bituminous Materials Committee (BMC) of American Society of Civil Engineers (ASCE).

Sean QIAN

Ph.D.

Henry Posner, Anne Molloy, and Robert and Christine Pietrandrea Associate Professor of Civil Engineering
Carnegie Mellon University

5000 Forbes Ave. Pittsburgh, PA 15213, USA
+1 412-268-4155
seanqian@cmu.edu
faculty.ce.cmu.edu/qian/

Zhen (Sean) Qian is Henry Posner, Anne Molloy, and Robert and Christine Pietrandrea Associate Professor of Civil Engineering jointly appointed at the Department of Civil and Environmental Engineering (major) and Heinz College of Information Systems and Public Policy (minor) at Carnegie Mellon University (CMU). He directs the Mobility Data Analytics Center (MAC) at CMU. Qian's research interest lies in large-scale dynamic network modeling and big data analytics for multi-modal transportation systems, in development of intelligent transportation systems (ITS) and in understanding infrastructure system interdependency. His research has been supported by a number of public agencies and private firms, such as NSF, DOE, FHWA, state DOTs, IBM, Benedum Foundation, and Hillman Foundation. Prof. Qian serves an Associate Editor for Transportation Research Part C, and an editorial board editor for Transportation Research Part B, and is an active member of the Network Modeling Committee of Transportation Research Board. He is the recipient of the NSF CAREER award in 2018 and Greenshields Prize from the Transportation Research Board in 2017. Qian was a postdoctoral researcher in the Department of Civil and Environmental Engineering at Stanford University from 2011 to 2013, and received his PhD degree in Civil Engineering at the University of California, Davis in 2011 and his M.S. degree in Statistics at Stanford University in 2012.

Shuaian WANG
Ph.D.

Associate Professor
The Hong Kong Polytechnic University
M641, Li Ka Shing Tower, Department of Logistics and Maritime Studies, The Hong Kong Polytechnic University, Hung Hom, Hong Kong
+852 2766-7419
wangshuaian@gmail.com
sites.google.com/site/wangshuaian

Dr. Shuaian Wang is currently an Associate Professor at the Hong Kong Polytechnic University (PolyU). Prior to joining PolyU, he worked as an Assistant Professor of Maritime and Supply Chain Management at Old Dominion University, USA, and a Lecturer of Operations Research at the University of Wollongong, Australia. Dr. Wang's research interests include shipping network design, port operations planning, urban transport network modeling, sustainable transportation and green logistics, and supply chain management. Dr. Wang is an associate editor of Transportation Research Part E and Flexible Services and Manufacturing Journal, an editorial board member of Transportation Research Part B, Transportation Letters, and Transportation Research Record.

S.C. WONG
Ph.D.

Professor
The University of Hong Kong
Department of Civil Engineering, Pokfulam Road, Hong Kong
Hong Kong, China
+852 28591964
hhecwsc@hku.hk
web.hku.hk/~hhecwsc/

Professor S.C. Wong is Chair Professor and Associate Dean, and holds the Francis S Y Bong Professorship in Engineering at the Faculty of Engineering of the University of Hong Kong. He received his BSc (Eng) and MPhil degrees from the University of Hong Kong and a PhD in Transport Studies from University College London. Professor Wong is currently Editor-in-Chief of Transportmetrica A: Transport Science, and International Journal of Sustainable Transportation, and serves on the editorial boards of over ten other international journals, such as IEEE Transactions on Intelligent Transportation Systems, Transportation Research Part B, Accident Analysis and Prevention, Transport Reviews, etc. Locally, Professor Wong is currently a Justice of the Peace, and Vice-Chairman of the Town Planning Board of the Hong Kong SAR Government. In 2015, Professor Wong was awarded the Bronze Bauhinia Star by the Hong Kong SAR Government.

Sudong XU
Ph.D.

Professor
Southeast University
2 Southeast University Road, Jiangning District,
Nanjing, Jiangsu, 211189, China

+86 25-5209-1269
sudongxu@seu.edu.cn

Dr. Sudong XU is currently a full Professor in School of Transportation, Southeast University. He is the Head of Port, Waterway & Coastal Engineering Department and the director of River and Ocean research center. In 2007, he received a Doctor of Philosophy Degree in Civil and Environmental Engineering from Florida State University, USA. His research interests focus on Estuary and Coastal hydrodynamics, Coastal hazards and Water transportation engineering. In recent years, he has published more than a dozen international journal papers such as in Coastal Engineering, Ocean Engineering, Hydrological Process, Natural Hazards and Journal of Coastal Research.

Shuming YAN
Ph.D.

Transportation Engineering Manager
City of Bellevue, Washington, US
450 110th Ave NE, Bellevue, WA 98004, USA

+1 206-719-3974
y0902@yahoo.com
www.bellevuewa.gov

Shuming Yan is currently serving as Engineering Manager with the City of Bellevue, WA, where he oversees transportation systems analysis and travel demand forecasting. Prior to joining Bellevue, Shuming was the Deputy Director of the Washington State Department of Transportation Urban Planning Office where he was responsible for overseeing the development of long- and short-range plans, policies, and investment strategies for state transportation systems in the greater Seattle metropolitan area. Before moving to the US, Shuming had five years of urban design and planning experience in China.

Scott MATTHEWS
Ph.D.

Professor
Carnegie Mellon University
5000 Forbes Ave, Pittsburgh, PA 15213 USA

+1 412-268-6218
hsm@cmu.edu
https://www.cmu.edu/cee/people/faculty/matthews.html

Scott is a professor in the Departments of Civil and Environmental Engineering & Engineering and Public Policy at Carnegie Mellon University. His research and teaching focus on engineering, economic, and social decision-making under uncertainty via large datasets, computation, data analytics, and visualization methods. His current interests are in the use of connected vehicle technologies to provide high-resolution data to improve mobility. Examples of particular topics of interest include using such data to improve vehicle safety and emissions inspections and to implement vehicle mileage-based usage fees. Previously, Matthews contributed to development of tools for environmental life cycle assessment (LCA) of products and processes, estimating and tracking environmental effects across global supply chains (e.g., carbon footprinting), and the sustainability of infrastructure systems.

Shaopeng ZHONG
Ph.D.

Associate Professor
Dalian University of Technology
Linggong Road #2 Ganjingzi District Dalian, Liaoning 116024, China
+86 18698627585
szhong@dlut.edu.cn
faculty.dlut.edu.cn/zhongshaopeng/zh_CN/index.htm

Dr. Shaopeng Zhong is an associate professor in School of Transportation and Logistics at Dalian University of Technology and the Deputy Director of the Traffic Engineering Laboratory. He has more than 15 years of professional experience in the field of sustainable urban planning and transportation planning. He has written and published two books and more than thirty scientific papers in the top journals in the field of transportation planning, such as Transportation Research Part A, Journal of Transport Geography, Journal of Transportation Engineering-ASCE, and IET Intelligent Transport Systems. He is a member of China Intelligent Transportation Systems Association Youth Expert Committee. He is also the chairman of the urban planning and travel behavior technical committee of the World Transport Convention.

Tom BRIJS
Ph.D.

Professor
Hasselt University – Transportation Research Institute
Science Park – Building 5, Belgium
+32 0 11269155
tom.brijs@uhasselt.be
www.imob.uhasselt.be

Prof. dr. Tom Brijs is road safety research team leader, full professor in road safety and vice-director at the Transportation Research Institute (IMOB) of Hasselt University in Belgium. His main expertise lies in traffic safety, driving behavior modeling, road geometric design, and intelligent transportation systems. Professor Brijs has over 100 ISI ranked international scientific journal publications, Scopus H-index = 21, and is a regular speaker at international scientific conferences. He is associate editor-in-chief of Safety-MDPI, member of the advisory editorial board of the journal 'Accident Analysis and Prevention' and 'Advances in Transportation Studies'. Since 2015, Prof. Brijs is the co-founder of 3 spin-off companies (Abeona, DriveSimSolutions and Safe.T) focussing on transportation and road safety solutions and consultancy.

Taewan KIM
Ph.D.

Professor
Chung-Ang University
Heukseok-Ro 84, Dongjak-Gu, Seoul, South Korea
Phone: +81 2-820-5846
twkim@cau.ac.kr
urban.cau.ac.kr

Dr. Taewan Kim is a professor in the Department of Urban Engineering at the Chung-Ang University where he has been a faculty member since 2004. Prior to becoming a faculty member at Chung-Ang University, he also worked at Korea Transport Institute and Korea Land Development Corporation. He completed his Ph. D. at the University of California, Davis and his undergraduate studies at Yonsei University. His research interest lie in the area of traffic flow theory, traffic operation and management, ITS. He is a member of Korean Society of Transportation.

Tarek SAYED
Ph.D.

Professor
University of British Columbia
Department of Civil Engineering,
Vancouver, BC, V6T 1Z4, Canada
+1 604-822-4379
tsayed@civil.ubc.ca
www.civil.ubc.ca/faculty/tarek-sayed

Tarek Sayed is a distinguished professor and a Tier 1 Canada Research Chair of Transportation Safety and Advanced Mobility at the University of British Columbia. He has a distinguished research track record in transportation engineering and has received a high number of honors and awards. In 2014, he received the one-time Centennial Road Safety Award from the Transportation Association of Canada which recognizes his outstanding transformational contributions to road safety over the past 100 years. He is a Fellow of the Engineering Institute of Canada, the Canadian Academy of Engineering, and the Canadian Society for Civil Engineering. His research has addressed a wide spectrum of transportation system applications with a focus on traffic operation and safety, and Intelligent Transportation Systems.

Tao MA

Ph.D.

Professor, Vice Dean
School of Transportation, Southeast University
Room 415, 2# Dongnandaxue Road, Nanjing, Jiangsu, 211189, China
+86 25 52091264
matao@seu.edu.cn; mataoseu@163.com

Dr. Tao Ma is now working as Assistant Dean, Professor, and Ph.D. student tutor in the School of Transportation in Southeast University, China. His research interests are Multiscale mechanics of pavement structure and materials; Characterization and computational modeling of pavement structure and materials; New pavement structure and functional materials; Structure design of durable pavement & sustainable maintenance technology; Green and intelligent pavement technology. Based on his cross-disciplinary educational background and extensive research experience, Dr. Ma has hosted 50+ research projects, including National Natural Science Foundation of China, National Key Technology R&D Program, National High-tech R&D Program of China (863 Program), Special Fund for Basic Research on Scientific Instruments of the National Natural Science Foundation of China, etc. Dr. Ma published 100+ technical articles in pioneering journals and applied 60+ national invention patents, in which 30+ were authorized. He participated in editing 2 National Level Official Textbook, published 2 textbooks, and Editor-in-chief and participation in 4 local and industry standards. Dr. Ma was selected by the Fok Ying-Tong Foundation Program by Ministry of Education. He was awarded by 333 High-level Talent Cultivation Project, Six Talents Summit Program, and Double Talents Program in Jiangsu Province. He also received Zhongying Young Scholars, and Excellent Young Teacher Funding project in Southeast University. He has won several scientific awards such as the first prize of Technical Invention of the Ministry of Education, the second prize of Science and Technology of Jiangsu Province, and the first prize of Science and Technology of China Highway Society. Dr. Ma has also lectured on the undergraduate core major course "Roadbed and Pavement Engineering" (Bilingual Seminar, National Excellent Course), and the graduate core course "Principle of Pavement Design" (all English), as well as other professional courses. He won many teaching awards, such as the first prize of national micro-teaching competition, first prize of Jiangsu Province micro-class teaching competition, second prize of Jiangsu Province undergraduate teaching achievement, first prize of Jiangsu Province postgraduate teaching reform achievements, and so on. Dr. Ma also serves on technical committees and as an active journal reviewer for many international high impact journals.

Tony SZE
Ph.D.

Assistant Professor
The Hong Kong Polytechnic University
Hung Hom, Kowloon, Hong Kong, China
+852 2766-6062
tony.nn.sze@polyu.edu.hk
nnsze4.wixsite.com/mysite

Tony is an Assistant Professor at the Department of Civil and Environmental Engineering of the Hong Kong Polytechnic University. He specializes in accident analysis, injury prevention, and applications of statistical methods. Tony serves as the associate editor of Accident Analysis and Prevention, journal with the highest impact factor in traffic safety. He is also the editorial board members of Safety Science, Journal of Safety Research and Analytic Methods in Accident Research, special issue guest editors and reviewers for over 35 international journals. Tony is one of the team members who received the Best Original Paper Award from Hong Kong Medical Journal in 2010 and Outstanding Health Promotion Project Award from Food and Health Bureau of Hong Kong Government in 2015.

Tinghua YI
Ph.D.

Professor
Dalian University of Technology
Linggong Rd, Ganjingzi District, Dalian, Liaoning, 116023, China
+86 411-84708320
yth@dlut.edu.cn

Dr. Tinghua Yi is a Professor in the College of Civil Engineering at Dalian University of Technology, China. He obtained the National Science Fund for Distinguished Young Scholars. He is associate editor of the Measurement, Elsevier, Structural Monitoring and Maintenance, Urban Rail Transit, etc. Dr. Yi obtained his Ph.D. degree in Disaster Prevention and Mitigation Engineering from Dalian University of Technology in 2007. He joined Dalian University of Technology as a full professor in 2007. Dr. Yi's main research interests are bridge condition monitoring and system design, disaster prediction based on bridge health monitoring, bridge inspection and assessment, etc. He has published over 50 peer-reviewed technical papers in international journals and received many academic awards.

Tao ZHOU
Ph.D.

Deputy President
Chongqing Transportation Planning Research Institute
Building 2, Chongqing planning and mapping innovation base, longshan street, Yubei District, Chongqing, China
+86 23 67862200
admin@cqtpi.com
www.cqtpi.com

Professor Zhou is industry pioneer of the urban comprehensive transportation planning in Chongqing, the founder and deputy President of Chongqing transportation planning research institute, the professor of engineering, the registered town planner, the Chongqing engineering survey and design master, the adjunct professor at Chongqing Jiaotong University, the academic leader of Chongqing key laboratory of mountain city transportation system and safety, and acquires the special government allowance of the state council.
Professor Zhou has researched urban planning for 30 years. Professor Zhou has acquired more than 50 provincial and ministerial awards such as national excellent urban and rural planning and design award, national excellent engineering survey and design award, national excellent engineering consulting achievement award, Chongqing science and technology progress award.

Wei FAN
Ph.D.

Professor
University of North Carolina at Charlotte
EPIC Bldg., Room 3261, 9201 Univ. City Blvd., Charlotte, NC 28223, USA
+1 704-687-1222
wfan7@uncc.edu
coefs.uncc.edu/wfan7

Dr. Wei Fan is a tenured full professor in the Department of Civil and Environmental Engineering at University of North Carolina at Charlotte. He is the also Director of the USDOT University Transportation Center for Advanced Multimodal Mobility Solutions and Education. Dr. Fan holds a Ph.D. in Civil Engineering-Transportation from the University of Texas at Austin. Dr. Fan's primary research interests include big data analytics for transportation; connected and autonomous vehicles; multimodal transportation and shared mobility; traffic system operation and control; and transportation system analysis and network modeling. Dr. Fan serves as an associate editor of IEEE Transactions – Intelligent Transportation Systems, ASCE Journal of Transportation Engineering, Part A: Systems, and International Journal of Transportation Science and Technology.

Wenrui HUANG
Ph.D.

Professor
Florida State University
2525 Pottsdamer St., Tallahassee,FL, USA
+1 850-410-6199
whuang@eng.famu.fsu.edu

Dr. Huang is a professor in the Civil and Environmental Engineering Department, Florida State University, Florida, USA. His research areas include natural hazard modeling (coastal storm surge and waves, watershed runoff, floods, etc…) and hazard impact and mitigation. His recent research include integration of hurricane hazard modeling and traffic modeling to support massive evacuations during hurricanes in Florida. Currently, he serves as associate editors for several SCI-indexed journals: Estuarine, Coastal and Shelf Science; Journal of Coastal Research; and Frontiers of Structure and Civil Engineering. He has published over 80 articles in peer-reviewed and SCI-indexed journals.

William H.K. LAM
Ph.D.

Chair Professor of Civil & Transportation Engineering
The Hong Kong Polytechnic University
Department of Civil and Environmental Engineering
Hung Hom, Kowloon, Hong Kong, China

+852 2766-6045
+852 2334-6389
william.lam@polyu.edu.hk
www.cee.polyu.edu.hk/~cehklam

Prof. William H.K. Lam is a Chair Professor of Civil & Transportation Engineering and has been the Head of the Civil & Environmental Engineering Department, The Hong Kong Polytechnic University from 2013 to 2019. Ir Prof. Lam has over 35-year professional experience in research and practice for planning and design of transport infrastructures. He has been the President of the Hong Kong Society for Transportation Studies (www.hksts.org) from 1996 to 2019. He is the founding Editor-in-Chief of the SCI Journal – Transportmetrica and is now one of the Co-Editors-in-Chief of Transportmetrica A: Transport Science (http://www.tandf.co.uk/journals/ttra). He is also the Convenor of the International Advisory Committee of the International Symposium on Transportation and Traffic Theory (https://isttt23.sciencesconf.org/).

Wenquan LI
Ph.D.

Professor
School of Transportation,
Southeast University
No. 2 Southeast University Road, Jiangning District, Nanjing, Jiangsu, China
+86 25-83795601
wenqli@seu.edu.cn
tc.seu.edu.cn/2011/0723/c860a10393/page.htm

Prof. Wenquan LI, Ph.D Supervisor was born in 1964. Having received his doctor degree on Transportation Management Engineering in the School of Transportation, Southwest Jiaotong University, he did research works in the postdoctoral research center on transportation engineering in Southeast University during 1997-1999. After his postdoctoral works, he has dedicated himself to education and research works in the School of Transportation in Southeast University. He is a member of editorial board of Journal of Southeast University. He was also selected in the "Plan of Six Top Talents" in Jiangsu Province. Prof. LI's research and teaching interests focus on Theory and Methodology of Transportation Organization Optimization, Transportation Planning and Management, Traffic Flow Theory and Highway Capacity, Traffic Safety, etc.

Wanjing MA
Ph.D.

Professor
Tongji University
4800 Cao'an Road
Shanghai, China
+86 21-69583740
mawanjing@tongji.edu.cn
www.mawanjing.com/

Dr. Wanjing Ma is currently a professor and Vice Dean of College of Transportation Engineering at Tongji University. He was a visiting scholar of The University of Illinois at Urbana and Champaign, The University of Arizona, and Hong Kong University of Science and Technology. His research focuses on traffic design and control, connected vehicles, and shared mobility. On these topics, he has published more than 100 articles in peer-reviewed journals. Dr. Ma was the recipient of the National Natural Science Funds for Outstanding Young Scholar, Fok Ying-Tong Education Foundation, and Shanghai Pujiang Scholar Program. He is an active member of professional societies such as TRB and WCTRS. He is on the editorial advisory board of Transportation Research Part C.

Wei SHANGGUAN
Ph.D.

Professor
School of Electronic and Information Engineering, Beijing Jiaotong University
No.3 Shangyuancun
Haidian District, Beijing, China
+86 13520735176
wshg@bjtu.edu.cn
faculty.bjtu.edu.cn/8161/

Dr. Wei ShangGuan has been engaged in the field of Traffic Information Engineering and Control. From 2008 to 2011, he was a Lecturer of Beijing Jiaotong University (BJTU), and promoted to associate professor in 2011. From 2013 to 2014, he was an academic visitor at University College London. He is currently a professor and doctoral supervisor of BJTU. His professional research interests include train operation control, system modeling & simulation, GNSS/GIS, and intelligent transportation system (ITS). He has been involved in many research projects (the National Natural Science Foundation of China, National Key Research and Development Plan of the MOST, etc.). He was awarded the first prize of China Railway Society Science and Technology, the first prize of China Intelligent Transportation Systems Association Science and Technology and ZhanTianyou Science and Technology Youth award for his impressive achievements in train operation control and ITS.

Wen XIONG
Ph.D.

Associate Professor
Southeast University
Dongnandaxue Rd, Jiangning District, Nanjing, Jiangsu 211189, China
+86 13913026472
wxiong@seu.edu.cn
tc.seu.edu.cn/2017/0828/c860a194095/page.htm

Dr. Wen Xiong is an associate professor in the School of Transportation at Southeast University, China and also the Chairman of the Department of Bridge Engineering. He became the ASCE Member since 2013. Dr. Xiong obtained his Ph.D. degree in Bridge and Tunnel Engineering from Tongji University in 2009. He joined Louisiana State University as a post-doc researcher and worked for 2 years before joining Southeast University as a full professor in 2011. Dr. Xiong's main research interests are flood-induced bridge collapse, bridge scour, applications of laser scan and computer vison on bridges, analysis of super-long-span bridges, etc. He has published over 20 peer-reviewed technical papers in international journals and received a few academic awards.

Wei WANG
Ph.D.

Professor
School of Transportation Engineering
Southeast University
2 Sipai Tower, Xuanwu
Nanjing, Jiangsu 210018, China
+86 13905170160
wangwei@seu.edu.cn

Dr. Wei Wang, Changjiang Scholar distinguished professor of Transportation Engineering, is the dean of the School of Transportation and the director of the Division of Civil, Architecture and Transportation Engineering at the Southeast University. He is currently serving as the leader of the advisory board for the national "smooth traffic" program in China, as well as the convener of the national graduate committee for Transportation Engineering under the academic degree committee of the state council. He also holds leadership positions in professional associations such as the Academic Committee of China's Urban Transportation Planning and the national Academic Committee of Intelligent Transportation Systems.

During the past 28 years, Dr. Wang has focused on teaching and conducting research in the areas of transportation system planning and management, traffic flow theory and highway capacity, as well as intelligent transportation systems. He has served as PIs for more than 45 research projects, including 2 projects sponsored by the National Basic Research Program of China, 6 projects sponsored by National Key Technologies R & D Program of China, 9 projects sponsored by China's National Scientific Foundation, as well as more than 30 projects sponsored by provincial or local governments. The total research funding exceeds 50 million RMB. Dr. Wang Wei has authored more than 200 papers in referred journals and conference proceedings, and published 9 books. He also holds 25 invention patent s.

Dr. Wang is the recipient of numerous national awards. He is the recipient of 4 National Science & Technology Awards (second class), 2 National Teaching Awards (second class), and 18 Provincial Science & Technology Awards. In recognition of his significant contributions to education and research in Transportation Engineering in China, Dr. Wang received the National Outstanding Teacher award in 2008 and the National Outstanding Youth Fund in 1998.

Wei YUAN

Professor, Vice Dean
Faculty of Automotive Engineering, Chang'an University
No. 33, South 2nd Road, Xi'an City, Shaanxi 710064, China
+86 13991818799
yuanwei@chd.edu.cn

Dr. Wei Yuan is a professor of Chang'an University. He is mainly engaged in teaching and researching work in the field of transportation safety. His research focuses on safety management of road transportation, driving behavior monitoring and safety improvement technology, vehicle safety assistant technology. He has hosted or participated in 3 projects supported by national science and technology support plan, 5 projects funded by national natural science foundation, 1 project based on innovation team development plan of the Ministry of Education, 3 projects supported by Ministry of Transport, 2 basic research projects and more than 10 provincial and ministerial research projects. He has published more than 60 academic papers, 20 invention patents and won 3 scientific and technological progress awards.

Xuegang (Jeff) BAN

Ph.D.

Associate Professor
University of Washington
121 G More Hall, Seattle WA 98195, USA
+1 206-543-9655
banx@uw.edu
faculty.washington.edu/banx

Dr. Xuegang (Jeff) Ban is an Associate Professor of the Department of Civil and Environmental Engineering at the University of Washington. He received his B.S. and M.S. in Automotive Engineering from Tsinghua University, and his M.S. in Computer Sciences and Ph.D. in Civil and Environmental Engineering (Transportation) from the University of Wisconsin at Madison. His research focuses on Transportation Network System Modeling and Simulation, Urban Mobility System Modeling and Control, and Intelligent Transportation Systems (ITS). He has published more than 120 papers in refereed journals, as book chapters, or in conference proceedings. He is a member of the TRB's Network Modeling Committee and Vehicle-Highway Automation Committee. He is an Associate Editor of IEEE Transactions on Intelligent Transportation Systems, Journal of Intelligent Transportation Systems, and Transportation Research Part C.

Xiqun (Michael) CHEN
Ph.D.

"Hundred Talents Program" Professor
Zhejiang University
B828 Anzhong Bldg, 866 Yuhangtang Rd, Hangzhou, Zhejiang 310058, China
+86 571-88208938
chenxiqun@zju.edu.cn
person.zju.edu.cn/xiqun

Dr. Xiqun (Michael) CHEN is "Hundred Talents Program" Professor, Institute of Intelligent Transportation Systems, Associate Department Head of Civil Engineering, College of Civil Engineering and Architecture, Zhejiang University, working on shared mobility on demand, simulation-based optimization, transportation big data analytics, and intelligent transportation systems. He received the B.E. and Ph.D. degrees from the Department of Civil Engineering, Tsinghua University, in 2008 and 2013, respectively. He worked in the University of Maryland and National University Transportation Center during 2013-2015. Dr. Chen published over 60 peer-reviewed journal papers, 4 books and chapters, and received the Best Ph.D. Dissertation Award of IEEE Intelligent Transportation Systems Society. He serves as Chairman of Transportation Operations and Management of World Transport Convention.

Xiangsheng CHEN
Ph.D.

Professor
College of Civil and Transportation Engineering
Shenzhen University
Nanshan District, Shenzhen, Guangdong, China.
ce.szu.edu.cn/info/1057/1816.htm

Dr. Xiangsheng Chen is a Professor and dean of the College of Civil and Transportation Engineering, the Future Underground City Research Institute at Shenzhen University, dean of China Coal Research Jianjing Institute. His research is in the area of tunneling, underground engineering, geotechnical engineering and shaft construction, especially ground freezing technique, ground move control technology and security environment synergism technology for engineering adjacent to subway structure. He was elected a member of the Chinese Academy of Engineering in 2017. He has contributed to more than 90 publications and has been obtained Class Prizes of the State Scientific and Technological Progress Award three times.

Xiaopei CAI
Ph.D.

Professor
Beijing Jiaotong University
No.3 Shangyuancun, Haidian District, Beijing Jiaotong University, China
+86 18610502026
+86 10-51683743
xpcai@bjtu.edu.cn
faculty.bjtu.edu.cn/civil/8213.html

Dr. Xiao-pei Cai is a scholar in Beijing Jiaotong University, which is one of the best universities specialized in railway engineering in China. He was a graduate student in Southwest Jiaotong University in 2005, he had focused on railway dynamics, track stability, high-speed tracks, wheel-rail interface and switch. After he got his PhD in Southwest Jiaotong University in 2008, he went to Beijing Jiaotong University to do further research on railway dynamics, high-speed switch and ballastless track. During the past five years, the team he contributes to has participated in many important projects including Qinghai-Tibet Railway, Shijiazhuang-Taiyuan high-speed railway and Beijing-Shanghai high-speed railway that play vital role in China's high-speed rail network.

Xuejun FENG
Ph.D.

Professor
Hohai University
1# Xikang Road
Nanjing, Jiangsu, China
+86 13951676550
fxj@hhu.edu.cn

Dr.Feng is a professor in the College of harbor, Costal and offshore Engineering, Hohai University, Nanjing, China. His research areas include maritime environment and port logistics. His recent research includes dust control in port area and ship exhaust emission, logistics optimization along “the Belt and Road”.

Xuhui HE
Ph.D.

Professor
Central South University
Lushan South Rd, Yuelu District
Changsha, Hunan 410083, China
+86 731-88876114
xuhuihe@csu.edu.cn

Dr. Xuhui He is the dean and a professor in the College of Civil Engineering at Central South University, China. He obtained his Ph.D degree in Bridge and Tunnel Engineering from Central South University in 2004. He is the Director of Executive Committee for the BEI (Bridge Engineering Institute, an international technical society). He joined Central South University as a full professor in 2009. Dr. He's main research interests are wind engineering of bridges, wind-vehicle-bridge coupled vibration, bridge monitoring and assessment, etc. He has published over 50 peer-reviewed technical papers in international journals and received many academic awards.

Xiaoyue(Cathy) LIU
Ph.D.

Assistant Professor
University of Utah
110 Central Campus Drive, Suite 2000, Salt Lake City, UT 84112, USA
+1 801-587-8858
cathy.liu@utah.edu
faculty.utah.edu/u0918933-XIAOYUE_CATHY_LIU/research/index.hml

Dr. Liu is an assistant professor in the Civil & Environmental Engineering Department at the University of Utah. She has a Ph.D. in transportation engineering from the University of Washington. She serves as a member on the Transportation Research Board (TRB) Highway Capacity Quality of Service (HCQS) Committee, Managed Lane Committee and the Transit Capacity and Quality of Service Committee. She is also serving as a board member of Utah Model Advisory Committee, and served on Salt Lake City Transportation Advisory Board (2013-2016). She is the director of Utah Traffic Lab at the University of Utah. Dr. Liu is a licensed professional engineer at the State of Utah.

Xiang LIU
Ph.D.

Ph.D., Professor
Central South University
High-Speed Train Research Center, Central South University, Changsha, Hunan, China
+86 13873144366
xiangliu@csu.edu.cn
stte.csu.edu.cn/bk/English.aspx?id=Liu%20xiang

Dr. Xiang Liu's research interests includes noise and vibration control in transportation, structural dynamics, structural instabilities, aeroelasticity, etc. He studied for his Bachelor (civil engineering), Master and PhD (road and railway engineering) in Central South University, obtained PhD degree in applied mathematics from University of Glasgow (UK) and then worked as a Research Fellow in structural dynamics in City, University London and then a Professor in School of Traffic & Transportation Engineering of Central South University in 2017. Dr. Liu serves as the regular reviewer of over ten international scientific journals and has published over 30 papers in international journals and conferences. Recently, he has been granted and responsible for over 10 grants (12 million RMB).

Xianglong LIU
Ph.D.

Director
ITS Department of CUSTReC, CATS
No. 240 Huixinli
Chaoyang District, Beijing, China
+86 13661177586
liuxianglong@live.cn

Dr. Liu is the director of ITS department of CUSTReC of CATS, also the vice director of the Key Lab. on APTS of MOT, and his major research area mainly focus on Advanced Public Transportation System(APTS), Mobility as a Service(MaaS) and Urban Sustainable Transport Policy Study. As the team leader, he has drafted the Guideline on APTS of China issued by MOT, and also drafted 11 technical specifications on APTS issued by MOT. He is currently responsible for developing on China National Transit Database (CNTD) for MOT. Dr. Liu has published more than 40 scientific papers on ITS and APTS, and published the book of "APTS Research and Practice" as the editor-in-chief in 2015.

Xiubo LIU
Ph.D.

Researcher
Railway Infrastructure Inspection Center of China Academy of Railway Sciences
No.2 Daliushu Road, Haidian District, Beijing, China
+86 13911234085
xbliu@rails.cn

Liu, Xiubo received the Bachelor and Master degree in Railway Track Engineering from Southwest Jiaotong University in 1993 and 1996 respectively, and received the PhD degree in Railway Track Engineering from Beijing Jiaotong University in 2007. He worked at China academy of railway sciences from 1996, and now, is a researcher at Railway Infrastructure Inspection Center of China Academy of Railway Sciences. His research interests include Interaction between Vehicle and Track, Track Inspection Technology, Track Inspection Standard and Data Analysis Method.

Xue LUO
Ph.D.

Professor
Zhejiang University
866 Yuhangtang Rd.
Hangzhou, Zhejiang, China
+86 571-88206542
xueluo@zju.edu.cn

Dr. Xue Luo's research has focused on mechanics-based characterization and modeling of pavement materials, multiphysics-coupled modeling of environmental impacts for climate resilient pavements, and optimization of strategies of preventive maintenance/rehabilitation. She has led or participated in research projects that cover a diverse range of subjects in pavement infrastructure, including those sponsored by the National Cooperative Highway Research Program, Federal Highway Administration, Texas Department of Transportation, Nevada Department of Transportation, etc. She has authored over 40 scholarly journal and conference articles. She is the member of American Society of Civil Engineers, Association of Modified Asphalt Producers, Association of Asphalt Paving Technologists (AAPT), etc. She is also the Associate Editor for the ASCE Journal of Transportation Engineering, Part B: Pavements.

Xiaopeng (Shaw) LI
Ph.D.

Associate Professor, Susan A Bracken Fellow
University of South Florida
4202 E. Fowler Avenue, ENG 207, USA
+1 813-974-0778
xiaopengli@usf.edu
cee.eng.usf.edu/faculty/xiaopengli/

Dr. Xiaopeng (Shaw) Li is currently an associate professor in the Department of Civil and Environmental Engineering at the University of South Florida (USF). His major research interests include advanced network system and traffic modeling with applications in connected autonomous vehicles, shared mobility and electric vehicles. He is the first holder of Susan A. Bracken Faculty Fellowship at USF and is a recipient of a National Science Foundation (NSF) CAREER award. He has published over 50 peer-reviewed journal papers, many of which are in top journals such as Transportation Research series and Operations Research. He has served as a member on the Transportation Network Modeling Committee (ADB30) and the Traffic Flow Theory and Characteristics (AHB45) of the Transportation Research Board (TRB) and an Associate Department Editor for IIE Transactions Focused Issue on Operations Engineering and Analytics. Prior to joining USF, he worked at Mississippi State University as an assistant professor of transportation engineering. Dr. Li received a B.S. degree (2006) in civil engineering from Tsinghua University, China, a M.S. degree (2007) and a Ph.D. (2011) degree in civil engineering along with a M.S. degree (2010) in applied mathematics from the University of Illinois at Urban-Champaign, USA.

Xiaolei MA

Associate Professor
Beihang University
No. 37 Xueyuan Road
Haidian District, Beijing 100083, China

+86 1061716617
xiaolei@buaa.edu.cn
www.trevorma.com

Dr. Ma is an associate Professor in the school of transportation science and engineering at Beihang University. He received his Ph.D. degree from University of Washington, Seattle in 2013. His research areas mainly lie in public transit operation and transportation Big Data analytics. To date, he has published over 90 articles in peer-reviewed journal articles and conference papers. He servers as associate editors/editorial board members of multiple journals including IEEE T-ITS, TR-Part C, IET ITS, JITS and CEUS, and also receives several national/provincial awards such as Young Elite Scientist Sponsorship Program by the CAST, Beijing Outstanding Youth Program and Beijing Nova Program.

Xiaobo QU
Ph.D.

Professor, Chair or Urban Mobility Systems
Chalmers University of Technology
Gothenburg, Sweden
+46 768543198
+46 768543198
xiaobo@chalmers.se
www.chalmers.se/en/Staff/Pages/Xiaobo-Qu.aspx

Xiaobo Qu is a professor with Chalmers University of Technology. Throughout his academic career, he has been endeavoring to practically improve transport safety, efficiency, equity, and sustainability through traffic flow modelling, network optimization, and most recently emerging technologies. In particular, his research has been applied to improvement of emergency services, operations of electric vehicles and connected automated vehicles, and management of vulnerable road users. He has authored or co-authored over 90 journal articles published at top tier journals in the area of transport engineering, and he is a recipient of many prestigious awards. His research has been supported by ARC, EU, Swedish Innovation Agency, etc. Xiaobo is now an Associate Editor/Editorial Board Member for IEEE Trans on Cybernetics, IEEE ITS Magazine, Journal of Transportation Engineering ASCE, Transportation Research Part A.

Xiaokun (Cara) WANG
Ph.D.

Associate Professor
Assistant Director of VREF CoE-SUFS
Department of Civil and Environmental Engineering
4032 JEC Building

Rensselaer Polytechnic Institute
110 8th Street
Troy, NY 12180-3590, USA
+1 518-276-2098
wangx18@rpi.edu

Dr. Cara Wang got her B.S and M. S. degrees from Tsinghua University, China, and Ph.D. from the University of Texas at Austin. Her research mainly focuses on the analysis of the interactions between land use, transport (both passenger and freight), energy and environment, and the spatial dependence of travel behavior. She has published over 60 papers in peer-reviewed journals and conference proceedings. She is a recipient of the Pikarsky Award for Outstanding Ph.D. Dissertation, and INFORMS Franz Edelman Award. Dr. Wang is member of TRB Committee ABJ70 (Artificial Intelligence and Advanced Computing Applications) and AT015 (Freight Transportation Planning and Logistics). Dr. Wang has been PI and Co-PI of research projects sponsored by National Science Foundation (NSF), National Cooperative Highway Research Program (NCHRP), National Cooperative Freight Research Program (NCFRP), New York State Energy Research and Development Authority (NYSERDA), U.S. State Department of Transportation, among others.

Xiong (Bill) YU
Ph.D.

Professor
Case Western Reserve University
10900 Euclid Avenue, Bingham 206, Cleveland, Ohio 44106, USA
+86 216-368-6247
xxy21@case.edu
billxyu.wixsite.com/bill-cwru

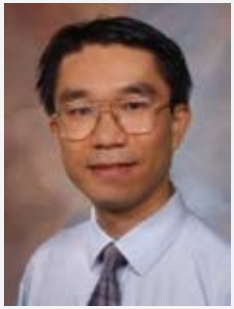
Dr. Xiong (Bill) Yu is a professor at the Department of Civil Engineering, Case Western Reserve University. His research emphasizes the use of interdisciplinary approaches to address the engineering problems in geosystem and civil infrastructure. His research activities include multiscale and multiphysics processes in geomaterials, smart sensors and materials, intelligent infrastructure and systems. He is a recipient of a NSF CAREER award in 2009. He is committed to graduate student mentorship with large number of students successfully launched academic career, including 2 received NSF CAREER awards. He has published over 250 papers in journals and referred conference proceedings. He serves as the chair of the Geo-Institute Engineering Geology and Site Characterization committee and Chair of Case School of Engineering Executive Committee.

Xiaohua ZHAO
Ph.D.

Professor and Department Head
Beijing University of Technology
100 Pingleyuan
Chaoyang District
Beijing 100124, China
+86 13911395560
zhaoxiaohua@bjut.edu.cn

Dr, Xiaohua Zhao is the professor at Beijing University of Technology. Prof. Zhao has been committed to research on driving behaviors, traffic safety, as well as traffic information and control technology. Prof. Zhao has presided and participated in more than twenty national and provincial key research projects. At present, Prof. Zhao is the author or co-author of 129 academic papers in tenure. Forty-one papers were indexed by SCI/SSCI and 38 papers were indexed by EI. Prof. Zhao obtained three authorized patents and sixteen authorized software copyrights. Prof. Zhao has honored with science and technology awards of provincial level or above.

Xuesong ZHOU
Ph.D.



Professor
School of Sustainable Engineering and the Built Environment
Arizona State University
Tempe, Arizona, USA
+1 480-965-5827
xzhou74@asu.edu

Xuesong Zhou is a professor at Arizona State University (ASU) in Tempe, Arizona. Dr. Zhou's research work focuses on dynamic traffic assignment, traffic estimation and prediction, large-scale routing and rail scheduling. Dr. Zhou is currently an Associate Editor of Transportation Research Part C, an Associate Executive Editor-in-Chief of Urban Rail Transit, and an Editorial Board Member of Transportation Research Part B. He was the former Chair of INFORMS Rail Application Section (2016), and a subcommittee chair of the TRB Committee on Transportation Network Modeling (ADB30). He has created an open-source traffic assignment package DTALite and published many papers with an H-index of 35.

Xingyi ZHU
Ph.D.

Professor
Tongji University
Shanghai, China
+86 18817459401
zhuxingyi66@tongji.edu.cn

Dr. Zhu's research interests include smart road materials and structures, multi-scale analysis and numerical simulation of road materials and structures. She has authored and co-authored more than 70 peer-reviewed international journal papers (including 50+ SCI-indexed papers). She undertakes 3 projects from NSFC, and 10+ projects from Shanghai Municipal Education Commission, etc. She gives more than 20 conference reports. She now serves as the associate editor of Journal of Materials in Civil Engineering, and once served as the responsible editor of Appl. Math. Mech.-Engl. Ed.(SCI-indexed).

Yueyue FAN
Ph.D.

Professor
University of California, Davis
Davis, CA, USA
yyfan@ucdavis.edu

Dr. Fan is a professor in Civil and Environmental Engineering at University of Cali-fornia, Davis. She is also a faculty member in graduate programs of Applied Mathe-matics and Business Analytics. She received her PhD in Civil Engineering at Univer-sity of Southern California in 2003. Dr. Fan's research is on transportation and en-ergy infrastructure systems modeling, with special interest in integrating applied mathematics and engineering domain knowledge to address challenges brought by system uncertainty, dynamics, and underdetermined issues.

Ying (Sylvia) HE
Ph.D.

Associate Professor
The Chinese University of Hong Kong
Shatin, N.T., Hong Kong, China
+852 39436646
+852 26035006
sylviahe@cuhk.edu.hk

Dr. Sylvia Ying He is an associate professor in the Department of Geography and Resource Management, the Chinese University of Hong Kong. Sylvia is an Associate Editor of Travel Behaviour and Society. She is Honorary Secretary of the Hong Kong Society for Transportation Studies (HKSTS) and a member of the International Scientific Committee of Eastern Asia Society for Transportation Studies (EASTS). Sylvia co-edited two special issues recently: 'Big data and travel behaviour' (Travel Behaviour and Socieity) and 'Understanding urban change in diverse contexts: experiences from Manchester and Hong Kong' (Town Planning Review). Sylvia obtained her PhD from the School of Public Policy at the University of Southern California, where she received the John Dyckman Award for Best Dissertation in Planning.

Yonele LI
Ph.D.

Professor
Southwest Jiaotong University
Sichuan, Chengdu, Sichuan, China
+1 13540001365
lele@swjtu.edu.cn
userweb.swjtu.edu.cn/Userweb/lele/index.htm

Dr. Yongle Li is currently a Professor and head of Department of Bridge Engineering, School of Civil Engineering, Southwest Jiaotong University (SWJTU). He joined in SWJTU since 1998 and was successively appointed as Teaching Assistant, Lecturer, Associate Professor, and Professor. Given his long-term commitment to the interdisciplinary studies of bridge structural dynamics, aerodynamics and vehicle dynamics, he is now in the field of bridge aerodynamics and wind-vehicle-bridge coupled dynamics. So far, Dr. Li has undertaken over 50 research projects and published over 200 scientific papers. Due to his significant contributions to both academia and industry, Dr. Li has won many awards, among which include The National Science Fund for Distinguished Young Scholars and Distinguished Professor of Chang Jiang Scholars.

Yang LIU
Ph.D.

Assistant Professor
National University of Singapore
Department of Civil and Environmental Engineering and Department of Industrial and Systems Engineering and Management, National University of Singapore, 1 Engineering Drive 2, Singapore, 117576
+65 6516-2334
iseliuy@nus.edu.sg
www.isem.nus.edu.sg/staff/liuy/

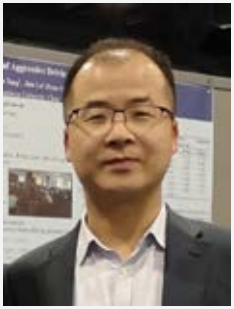
Dr. Liu Yang is an Assistant Professor at the National University of Singapore. Dr. Liu's research covers various topics in the areas of travel demand and congestion management, ridesharing and carsharing systems operations and design, and information provision in risky networks. Her work has been published in the major journals in the field such as Transportation Research Part A, Part B, and Part C. She served as a member on the editorial advisory board of Transportation Research Part B and an Area Editor for 2017 COTA International Conference for Transportation Professionals. Currently, she serves as a member on the editorial advisory board of Transportation Research Part C. She is a member of IEEE ITS Education Committee, a member of Transportation Research Board Committee on Emerging and Innovative Public Transport and Technologies (AP020), and a member of International Scientific Committee (ISC) of Eastern Asia Society for Transportation Studies (EASTS). She has worked on the research projects funded by US and Singapore public agencies, including US Federal Highway Administration, National Science Foundation, and Singapore Ministry of Education.

Yinghao MIAO
Ph.D.

Associate Professor
National Center for Materials Service Safety, University of Science and Technology Beijing
30 Xueyuan Road
Haidian District, Beijing 100083 China
+86 10-6233-2193
miaoyinghao@ustb.edu.cn

Dr. Miao earned his Ph.D. degree in road and railway engineering in 2006 from Chang'an University and joined the faculty of Beijing University of Technology (BJUT). After 12 years of service to BJUT, he moved to the National Center for Materials Service Safety, University of Science and Technology Beijing in April 2018. He has been actively conducting research in the road engineering for many years. His current research interests include: pavement structures and materials, sustainable and smart roads, resilient roads and climate change adaptation.

Yongfeng MA



Associate Professor
School of Transportation, Southeast University
2 Southeast University Road, Nanjing
+86 13912997321
mayf@seu.edu.cn
tc.seu.edu.cn/2016/0105/c860a140797/page.htm

Dr. Yongfeng Ma is an Associate Professor in the School of Transportation, Southeast University, China. He received his Ph.D. in Transportation Engineering from Southeast University in 2007. He has been working at the position of visiting scholar in the School of Civil Engineering, Purdue University, from August, 2014 to September, 2015. His research interests focus on traffic safety, driving behavior and road traffic design. He has served as PI or co-PI of 15 research projects. He is the chair of the road traffic design subcommittee of World Transportation Conference. He has published over 50 referred journal and conference articles. He serves as reviewer for multiple top journals and conferences, such as IET Intelligent Transport Systems, TRR.

Yu (Marco) NIE
Ph.D.

Professor
Northwestern University
2145 Sheridan Road
Evanston, IL, 60208, USA
+1 847-467-0502
y-nie@northwestern.edu
www.mccormick.northwestern.edu/directory/profiles/Yu-Nie.html

Yu (Marco) Nie is a Professor of Civil and Environmental Engineering at Northwestern University. He received his B. S. from Tsinghua University and Ph.D. from the University of California, Davis. Dr. Nie specializes in modeling and analysis of various transportation systems and has published over 70 articles in peer-reviewed international journals on related topics. He is a member of TRB committee on Transportation Network Modeling (ADB30). He also serves as an Associate Editor for the Journal of Transportation Science, an Area Editor for the Journal of Networks and Spatial Economics, and as a member of the Editorial Advisory Board for the Journal of Transportation Research Part B. Dr. Nie's research has been supported by National Science Foundation (NSF), Transportation Research Board, US Department of Transportation, Federal Highway Administration (FHWA), and Illinois Department of Transportation.

Yiqiu TAN
Ph.D.

Professor and Dean
Harbin Institute of Technology
Huanghe Street 73#, Nangang District, Harbin, Heilongjiang, China
+86 451-86283090
tanyiqiu@hit.edu.cn
homepage.hit.edu.cn/tanyiqiu

Professor Tan Yiqiu has been engaged in the teaching and scientific research of road engineering structure and materials. In 2012, she was awarded the Outstanding Youth Fund of the National Natural Fund Commission, and was appointed as a special professor of the Yangtze River Scholar Award Program of the Ministry of Education in 2014. She has granted one second prize for National Technology Invention Award, twice second prizes for National Science and Technology Progress Award, more than 50 national invention patents granted, published more than 150 domestic and foreign journal papers and 2 monographs.

Yadong WANG
Ph.D.

Research Fellow
National University of Singapore
Engineering Drive 2, NUS, 117576, Singapore
+65 87108917
ceewyd@nus.edu.sg

Dr. Yadong Wang is a Research Fellow in Department of Civil & Environmental Engineering at National University of Singapore (NUS). He received his Ph.D. degree in the Department of Civil & and Environmental Engineering at NUS, and the Master and Bachelor degree in School of Management at Huazhong University of Science and Technology in China. His research lies in maritime shipping operation management, especially in liner container shipping routing and scheduling. He has published many papers in the journals of transportation studies such as Transportation Science and Transportation Research Part B. He has also won two best paper awards, the OCDI Takeuchi Yoshio Logistics Award in the Sixth International Conference on Transportation and Logistics (T-LOG 2016), and the Best Student Paper Award in the 2015 International Conference on Logistics and Maritime Systems (LOGMS 2015).

Yibing WANG
Ph.D.

Professor
Zhejiang University
Hangzhou, Zhejiang, China
wangyibing@zju.edu.cn
person.zju.edu.cn/yibing

Dr. Yibing Wang is a full professor at Zhejiang University, China. His research interests include road traffic flow modeling, surveillance, control, and connected & automated vehicles. He has published more than 60 refereed journal articles and 80 conference papers. Dr. Wang received his Ph.D. degree in Control Theory and Applications from Tsinghua University, China, in 1998. He was a Postdoc/Research Fellow/Senior Research Fellow with the Dynamic Systems and Simulation Laboratory, Department of Production Engineering and Management, Technical University of Crete, Greece, from 1999 to 2007. He was a Senior Lecturer at the Department of Civil Engineering, Monash University, Australia from 2007 to 2013. He joined Zhejiang University in 2013. His research has been financially supported by the European Commission (EC), the Australian Research Council (ARC), the National Natural Science Foundation of China (NSFC), the National Key R&D Program of China. Dr. Wang is a Senior Editor for the IEEE Transactions on Intelligent Transportation Systems, and an Associate Editor for Transportation Research Part C: Emerging Technologies. He was a Program Co-Chair, Program Chair, and vice program chair of the International Conference on Intelligent Transportation Systems in 2014/, 2010, and 2006.

Yinhai WANG

Ph.D.

Professor and Director
Pacific Northwest Transportation Consortium (PacTrans)
USDOT University Transportation Center for Federal Region 10
University of Washington
Seattle, WA 98195-2700, USA
+1 206-616-2696
PacTrans Website: depts.washington.edu/pactrans/
www.uwstarlab.org/

Dr. Wang is a professor in both Civil and Environmental Engineering and Electrical and Computer Engineering at the University of Washington (UW). He serves as director for Pacific Northwest Transportation Consortium (PacTrans), USDOT University Transportation Centre for Federal Region 10. He has conducted extensive research in traffic sensing, safety, transportation bigdata, artificial intelligence and advanced computing, traffic operations, etc. He has published over 160 peer-reviewed journal articles. He is currently president of Transportation and Development Institute (T&DI) at American Society of Civil Engineers (ASCE). He is also a member on the IEEE Smart Cities Technical Activities Committee and associate editor for Journal of Transportation Engineering Part A, PLOS One, and Journal of ITS.

Yao-Jan WU

Ph.D.

Associate Professor
University of Arizona
1209 E 2nd St. Room 324F, Civil Engineering, Tucson, AZ 85721 USA
+1 520-621-6570
yaojan@email.arizona.edu
www.yaojan.org

Dr. Yao-Jan Wu is an associate professor of transportation engineering and the Director of Smart Transportation Lab in the Civil and Architectural Engineering and Mechanics at the University of Arizona (UA). Dr. Wu received his Ph.D. degree from the University of Washington, Seattle in 2010. Currently, Dr. Wu is the faculty adviser of the UA Institute of Transportation Engineers (ITE) student chapter. He has served as the Principle Investigator (PI) or Co-PI of more than 20 national/international projects. Dr. Wu has more than 40 refereed journal publications. He has presented his research findings more than 100 times at national and international conferences, and at invited speaker events. Dr. Wu's research interests highlight a strong connection between information technology (IT) and traditional transportation research.

Yue XIAO
Ph.D.

Associate Professor
Wuhan University of Technology
Luosi Lu 122, Wuhan, Hubei, China
+86 18171089165
xiaoy@whut.edu.cn

Dr. Yue Xiao received his PhD degree at Delft University of Technology in Road and Railway Engineering in 2013, with the supervisor of Prof. A.A.A. Molenaar. His research interests include eco-efficient pavement materials and construction materials recycling. He designed the green asphalt materials with lower VOCs emission by synthetic zeolite. Dr. Xiao has three NSFC projects and is now serve as Direct in the Sub-lab of Construction Materials Recycling in the State Key Laboratory of Silicate Materials for Architectures. He received the title of CHUTIAN Scholar in material science and engineering from Hubei provincial department of education in 2014 and 16th Fok Ying Tung Outstanding Young Teacher of Higher Education from the Ministry of Education in 2018.

Yafeng YIN
Ph.D.

Professor
University of Michigan
Department of Civil and Environmental Engineering
2129 GG Brown, 2350 Hayward Street, Ann Arbor, Michigan, 48109, USA
+1 734 764-8429
yafeng@umich.edu
cee.umich.edu/yafeng-yin

Dr. Yafeng Yin is a Professor at Department of Civil and Environmental Engineering, University of Michigan, Ann Arbor. He works in the area of transportation systems analysis and modeling, and has published approximately 100 refereed papers in leading academic journals. Dr. Yin is the Editor-in-Chief of Transportation Research Part C: Emerging Technologies, one of the leading academic journals in the transportation domain. He is also an Associate Editor of Transportation Science, and Department Editor of urban and mobility services for Service Science. He is a member of Transportation Economics Committee and International Cooperation Committee of Transportation Research Board. Dr. Yin received his Ph.D. from the University of Tokyo, Japan in 2002, his master's and bachelor's degrees from Tsinghua University, Beijing, China in 1996 and 1994 respectively.

Yunlong ZHANG
Ph.D.

Professor
Texas A&M University
College Station, Texas, USA

+1 979-739-1882
yzhang@civil.tamu.edu

Dr. Yunlong Zhang, Professor and Associate Department Head in Zachry Department of Civil and Environmental Engineering at Texas A&M University with a joint appointment at Texas A&M Transportation Institute (TTI), and a Specially-Appointed Professor at Southeast University, China. Dr. Zhang received his bachelor's degree in 1984 and master's degree in 1987, both from Southeast University, and his Ph.D. from Virginia Tech in 1996. Dr. Zhang has over 30 years of professional experience of teaching and research in areas related to transportation engineering. His research interests include traffic simulation and modeling, traffic signals and other control devices, traffic safety, and applications of connected and autonomous vehicles.

Yu ZHANG
Ph.D.

Associate Professor
University of South Florida (USF)
Department of Civil and Environmental Engineering
4202 E. Fowler Ave. ENB118
Tampa, FL 33647, USA
+1 813 974-5846
yuzhang@usf.edu
www.nexts-lab.com

Dr. Zhang is an expert of network modeling and system analysis with applications in air transportation, multimodal transportation, and shared mobility. Dr. Zhang aims at developing innovative methodologies and concepts for resilient, efficient, and sustainable transportation systems. She has published 40 journal papers, including in top transportation journals such as Transportation Research Part B, Part C, Part D, and Part E. Dr. Zhang is serving on the editorial board for Transportation Research Part C and International Journal of Sustainable Transportation, and is an invited referee for Transportation Science, Transportation Research Part A, Part B, Part C, Part D, Part E, Journal of Air Transport Management, Networks and Spatial Economics, Journal of Cleaner Production, Journal of Air Transport Management, Journal of Intelligent Transportation Systems, European Journal of Operation Research etc.

Dr. Zhang serves as the Chair for Transportation Research Board (TRB) Airfield and Airspace Capacity and Delay (AV060) committee, the Immediate Past President for Chinese Overseas Transportation Association (COTA). Dr. Zhang holds Ph.D. and M.S. from the University of California Berkeley in Civil and Environmental Engineering and Bachelors from Southeast University of China in Transportation Engineering. Dr. Zhang is the recipient of the 2010 Fred Burggraf Award, for excellence in transportation research by researchers 35 years of age or younger, presented by TRB of the National Academies of Science.

Yang ZHOU
Ph.D.

Postdoc Researcher
University of Wisconsin Madison
1208 Engineering Hall 1415 Engineering Drive, USA
+1 605-300-0159
zhou295@wisc.edu

Yang Zhou, received the Ph.D. degree civil engineering in University of Wisconsin-Madison, WI, USA, and the M.S. degree in Civil and Environmental Engineering from University of Illinois at Urbana-Champaign, Champaign, IL, USA, in 2014. He is currently a postdoc in civil engineering in University of Madison-Madison, WI, USA. His main research directions are connected automated vehicles robust control, interconnected system stability analysis, traffic big data analysis, and microscopic traffic flow modelling.

Zejiao DONG
Ph.D.

Professor, Vice Dean
Harbin Institute of Technology
Room 303-1, Transportation School, Second campus, Harbin, Helongjiang, China
+86 15846533166
+86 451-86282116
hitdzj@hit.edu.cn
homepage.hit.edu.cn/dongzejiao

Dr. Zejiao Dong is a full Professor specializing in Pavement Mechanics and Monitoring in School of Transporation Science & Engineering at the Harbin Institute of Technology (HIT). Dr. Dong has research interests and expertise in asphalt pavement dynamics and health monitoring, i.e., asphalt pavement dynamics, multiscale modelling of asphaltic materials, pavement continuous health monitoring and sustainable pavement material. Dr. Dong has received five project fundings from National Science Foundation of China (NSFC) and published one academic book in Chinese within the domain of asphalt pavement material characterization and mechanical analysis. Dr. Dong served as Vice Director of Key Laboratory of Specialized Material and Intelligent Control Technology for Traffic Safety, and elected as Distinguished Youth Scholar of Heilongjiang Science Foundation.

Zhongxiang FENG
Ph.D.

Professor
School of Automobile and Traffic Engineering, Hefei University of Technology
193 Tunxi Road, Baohe District, Hefei, Anhui 230009, China.
+86 13866738826
fzx@hfut.edu.cn

Prof. Zhongxiang Feng is the director of the Institute of Transport and Safety, Hefei University of Technology, where he has been conducting research on driving physiology, psychology and behavior. He serves as the chairman of the Technical Committee of Driving Psychology, Behavior and Safety of the WTC. He is also the member of Committee of Young Scientific and Technological Workers of China Transport Association. He has also hosted several projects which were supported by "NSFC", etc. He has published more than 60 academic papers, including 19 SCI/SSCI searches published in international well-known journals such as Accident Analysis & Prevention, Transportation Research Part A and Transportation Research Part F.12 patents for invention were applied. One monograph and one textbook were published.

Zhibin LI
Ph.D.

Professor
School of Transportation
Southeast University
2 Southeast University Road
Nanjing, Jiangsu, China
+86 13952097374
lizhibin@seu.edu.cn
tc.seu.edu.cn/2017/0222/c860a184040/page.htm

Dr. Zhibin Li is a Professor in the School of Transportation at Southeast University in Nanjing China. He attained his Ph.D. degree from Southeast University in Transportation Engineering in 2014. From 2010 to 2011, he was a visiting student at the University of California, Berkeley. From 2015 to 2016, he worked as a postdoc research fellow in University of Washington. In 2017, he was a Xiangjiang Scholar in The Hong Kong Polytechnic University. He has won the best doctoral dissertation award issued by the National Intelligent Transportation System Association in 2015. He has published more than 100 papers in international journals and conferences, with 60 papers indexed by SCI/SSCI. He also has more than 20 patterns. Dr. Li's main research direction is Intelligent Transportation Systems, traffic control, traffic flow theory, and traffic safety.

Zhe LIANG

Ph.D.

Professor
Tongji University
Yangpu District, Num 1 Zhangwu Rd, Tongji Building A, Rm 1913, China
+86 18121013077
liangzhe@tongji.edu.cn
sem.tongji.edu.cn/semch/15381.html

Zhe Liang is a professor in the School of Economics and Management, Tongji University. He received his BEng from the Department of Computer Engineering at National University of Singapore in 2001 and his PhD from the Department of Industrial and Systems Engineering at Rutgers in 2011. His research interests are related to the design and implementation of exact and heuristic algorithms for large-scale combinatorial optimization problems in logistics and transportation. He has more than 20 cited publications, including papers that appeared in journals such as Transportation Science, INFORMS Journal on Computing, Transportation Research Part B, and others. He has been funded by the National Science Foundation of China, Ministry of Education of China, and Ministry of Science and Technology of China.

Zhiyuan LIU

Ph.D.

Professor, Vice Dean
School of Transportation
Southeast University
2 Southeast University Road
Nanjing, Jiangsu, China
zhiyuanl@seu.edu.cn

Dr. Zhiyuan Liu is a Professor and vice dean of the School of Transportation at Southeast University, where he also serves as the director of Research Center for Complex Transport Networks. He attained his Ph.D degree from National University of Singapore (NUS) in Transportation Engineering in 2011 and worked as a postdoc research fellow from 2011 to 2012. From 2012 to 2015, he was a lecturer in Monash University, Australia. From Dec 2017 to Jan 2018, He was a visiting professor in the School of Mathematics and Statistics at The University of Melbourne. His research areas include Transportation Network Modelling, Public Transport, Transport Data Analytics. He has published over 60 journal papers at the SCI/SSCI indexed journals (9 in TR-B, 10 in TR-C and 8 in TR-E), 5 of which are Highly Cited Papers. His research works have been cited for more than 1600 times with a H-index of 24. He currently acts as an associate editor of two SCI journals, Journal of Transportation Engineering and IET Intelligent Transportation Systems; and also the editorial board of International Journal of Transportation, Journal of Transport and Land Use (SSCI).

Zhong-Ren PENG
Ph.D.

Professor and Director
International Center for Adaptation Planning and Design, College of Design, Construction and Planning,
University of Florida, Gainesville, FL 32611, USA
Professor and Director,
Center for ITS and UAV Applications Research, Shanghai Jiao Tong University, Shanghai, 200240, China
+1 352-294-1491
zpeng@ufl.edu

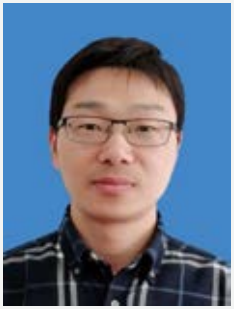
Dr. Zhong-Ren Peng is Professor and Director of International Center for Adaptation Planning and Design, College of Design, Construction and Planning at the University of Florida, Gainesville, FL, USA, and Zhiyuan Chair Professor and Director of Center for ITS and UAV Applications Research at Shanghai Jiao Tong University, Shanghai, China. His major research expertise are in the areas of transportation planning, intelligent transportation systems, geographic information science, transportation and environment, and unmanned aerial vehicles applications. Dr. Peng has published over 170 peer-reviewed articles in SCI journals and is the principle author of the book "Internet GIS: Distributed geographic information services for the Internet and wireless networks".

Ziqi SONG
Ph.D.

Assistant Professor
Utah State University
4110 Old Main Hill, Logan, UT 84322-4110, USA
+1 435-797-9083
ziqi.song@usu.edu
engineering.usu.edu/cee/people/faculty/song-ziqi

Dr. Song is an Assistant Professor in the Department of Civil and Environmental Engineering (CEE) at Utah State University (USU). He is the Transportation Division Head of CEE Department and the Director of the Transportation Infrastructure Management and Engineering laboratory (TIMELab) at USU and the faculty advisor of USU Institute of Transportation Engineers (ITE) student chapter. His research interests include transportation network modeling, transportation electrification, highway maintenance and asset management, and traffic operations and safety. Dr. Song graduated with a B.E. in Transportation Engineering from Southeast University, China. He received an M.Phil. in Civil Engineering from the University of Hong Kong, and got a Ph.D. in Civil and Coastal Engineering from University of Florida.

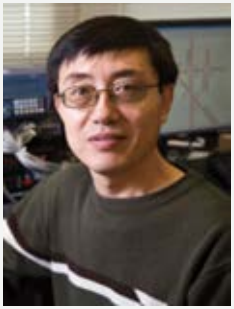
Zhijia TAN
Ph.D.



Professor
Dalian Maritime University
School of Maritime Economics and Management
Dalian, PLiaoning, China
+86 13871203424
zjatan@dlmu.edu.cn

Dr. Tan is currently the professor of School of Maritime Economics and Management at Dalian Maritime University (DMU). He was educated at Geoscience University of China (Wuhan) and Fudan University (Shanghai) where he was awarded the BS and MS degrees in Applied Mathematics in 2000 and 2005, respectively. And then he studied at The Hong Kong University of Science and Technology and received his PhD degree in Transportation and Traffic Engineering in 2010. The major portion of his research focuses on modeling and analysis of transportation systems, transportation infrastructure franchising, and inland waterway transportation.

Zong TIAN
Ph.D.



Professor and Director
The University of Akron
Professor and Director
University of Nevada, Reno
MS 258, Reno, NV 89557, USA
+1 775-443-6163
zongt@unr.edu
wolfweb.unr.edu/homepage/zongt/

Dr. Tian joined the University of Nevada Reno in 2004 and is currently a professor and director of the Center for Advanced Transportation Education and Research (CATER) at UNR. He is also the director of a USDOT University Transportation Center consortium that includes five universities in Nevada, Arizona, and New Mexico. He obtained his Ph.D. degree from Texas A&M University. He held a position of associate research scientist at the Texas Transportation Institute between 2000 and 2004. He was employed at Kittelson and Associates, Inc. in Portland, Oregon between 1995 and 1999. Dr. Tian is active in various professional organizations. He is a member of the Traffic Signal Systems Committee of TRB and has served as a member of Highway Capacity and Quality of Service Committee for 9 years. He serves as the Topic Area Manager (TAM) for Area C of the World Conference for Transport Research Society (WCTRS), overseeing four Special Interest Groups. His research is in traffic signal control, highway capacity analysis, and integrated freeway-arterial operations.

Zhigang XU
Ph.D.

Professor
Chang'an University
The middle section of S. 2nd ring-road
Xi'an, Shaanxi, China
+86 29-62630049
xuzhigang@chd.edu.cn
it.chd.edu.cn/info/1026/6327.htm

Dr. Zhigang Xu is a Professor with the School of Information Engineering. He is currently the chair of CAVs Committee of World Transport Convention, and also a member of ASCE T&DI and IEEE ITS society. He had worked in University of California, Davis as a visiting scholar. His research focuses on connected and automated vehicles, image processing and intelligent transportation systems. On these topics, he has published more than 70 journal or conference papers, 3 of them were recommended as best papers. Dr. Xu won 1 National and 3 Provincial Scientific and Technological Progress Rewards in China. As a co-leader, he built a field test-bed at CU named CAVTest for testing CAVs. He also developed an autonomous vehicle named Xinda, on this platform he carries on many academic researches and won several awards. In China, he conducts wide collaboration with the industries. For his special contribution on scientific research and education, Dr. Xu was awarded the title of Outstanding Young Scientist of Shaanxi Province in 2018.

Pre- and Post-CICTP2019 Events

The Pre-CICTP2019 Workshop on Big Data and Emerging Vehicle Technologies

July 4, 2019
Grand Gongda Jianguo Hotel, Beijing University of Technology
100 Pingleyuan, Chaoyang District, Beijing 100124, China
For more information, please contact Dr. Yanyan Chen at
+86 13671283646 or cdyan@bjut.edu.cn

The Post-CICTP2019 Yangzhou Symposium on Smart City and Future Transportation

July 9-11, 2019
Yangzhou Xiyuan Hotel, Yangzhou University
1 Fengle Upper St, Weiyang District, Yangzhou, Jiangsu 225002, China
For more information, please contact Dr. Shejun Deng at
+86 13852727958 or yzrx6@163.com

CICTP
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鸣谢

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