

ICCTP₂₀₁₁

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Towards Sustainable Transportation Systems

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Towards Sustainable Transportation Systems



Welcome Message

It is our great pleasure to welcome you to the 11th International Conference of Chinese Transportation Professionals (ICCTP2011), jointly organized by Chinese Overseas Transportation Association (COTA) and Southeast University, and sponsored by American Society of Civil Engineers (ASCE), National Natural Science Foundation of China (NSFC), World Bank, Nanjing Association of Science and Technology, Reason Foundation, and the Transportation Research Association in Nanjing. The conference theme, Toward Sustainable Transportation Systems, represents our vision and goal for future endeavors in transportation research, education, and practice. ICCTP2011 awaits your active participation and contribution at the beautiful and scenic International Conference Hotel of Nanjing from August 14 through 17, 2011.

Nanjing is a familiar place for ICCTP because the second ICCTP (or ICCTP2002) was hosted in Nanjing. COTA and Southeast University have witnessed the growth of ICCTP over the past nine years, from a small group meeting to one of the largest transportation conferences in China. It is exciting for us to announce that ICCTP2011 received a large number of high-quality contributions: among the nearly 1000 submissions, a total of 434 papers were accepted for publication in the proceedings. These published papers went through a very rigorous technical review and English editing process for quality assurance. We are so glad to see the improvement in paper quality this year and, in response, ICCTP2011 will issue several awards to the best papers identified by the ICCTP2011 Excellent Paper Award Committee to recognize the authors' significant contributions to ICCTP2011 and their dedications to transportation research and practice.

ICCTP2011 has attracted broad participation both domestically and internationally. In addition to the top-level scholars from China, over sixty internationally recognized scholars (including Professor Kumares Sinha, Member of the US National Academy of Engineering) from North America, Asia, and Europe will participate in ICCTP 2011. Their contributions lead to an excellent program with five plenary sessions, six invited sessions, four sessions contributed by COTA members and nine technical sessions by domestic researchers. In addition to these podium sessions, COTA Educational Workshop, the Transportation College Deans' Forum, and the World Bank Forum will continue their successes to ICCTP2011. Reason Foundation will also launch its first forum to report the research findings from its China Mobility Project.

ICCTP has been an excellent platform for information exchange, experience sharing, and professional networking over the past ten years. We hope ICCTP2011 would be another wonderful and rewarding experience in your memory.

On behalf of the ICCTP2011 organizing council, we would like to express our sincere gratitude to all authors and conference participants for their solid contributions. We are also grateful to all paper reviewers and English editors for their outstanding efforts. Finally, our special thanks go to all conference committee members, sponsors, invited speakers, session chairs, and staff members for their hard work and great efforts that make ICCTP2011 a great success!

**Wish you a
very pleasant
stay in
Nanjing!**

ICCTP2011 Co-Chairs



A handwritten signature in black ink, appearing to be 'Wei Wang'.

Wei Wang



A handwritten signature in black ink, appearing to be 'Yin Hai Wang'.

Yin Hai Wang

**ICCTP2011 Organizing
Committee Co-Chairs**



A handwritten signature in black ink, appearing to be 'Yafeng Yin'.

Yafeng Yin



A handwritten signature in black ink, appearing to be 'Jian Lu'.

Jian Lu

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Organizers

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 ICCTP series 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 Annual Meeting every January in Washington D.C.). ICCTP is held in China every summer and is a premier gathering for Chinese transportation professionals worldwide and for international professionals who are interested in contributing to or gaining a deeper understanding of the transportation development in China.

School of Transportation, Southeast University

The School of Transportation at the Southeast University was founded in 1995. Its history can trace back as far as 1920s with the foundation of the Highway Engineering program in the Department of Civil Engineering at the National Central University in Nanjing, China. Over its past 90 years history, the school has become a nationally recognized center for research and education in different fields of Transportation Engineering. The school has won 8 National Science & Technology Awards, and more than 80 provincial awards. Transportation Engineering program at the Southeast University is currently ranked 2nd nationally according to the most recent discipline evaluation conducted by the Ministry of Education of the People's Republic of China.

The School of Transportation Engineering is made up of 18 academic units, including 8 departments, 8 institutes, and 2 research centers. The research and educational program covers a wide range of disciplines in transportation, including Transportation Planning and Management, Highway and Railway and Engineering, Geotechnical Engineering, Vehicle Operation Engineering, Transportation and Logistics, as well as Harbor and Shipping Administration, etc. The school has an annual budget of approximately ¥110 million.

The School of Transportation currently offers 9 master's degree programs and 7 doctoral degree programs. The total number of enrolled students reaches 2140 in 2011. The School has altogether 203 faculty and staff members, among which 40 are professors and 75 are associate professors. The faculty team includes 1 academican of the Chinese Academy of Engineering, 1 National Outstanding Teacher, 3 Changjiang Scholar distinguished professors, as well as 45 Ph.D. supervisors.

Instructions for Presenters

1. Approximately 25, 20, or 15 minutes are allocated to each speaker at plenary, invited, or technical sessions respectively, including the time for Q&A.
2. Each presenter must report to their session chair at least 10 minutes before their 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 their session begins. 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 their own laptop, s/he must inform the session chair and test the system before their session begins to ensure their 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 presence information of speakers.
3. Approximately 25, 20, or 15 minutes are allocated for each speaker at plenary, invited, or regular technical sessions respectively, including the time for Q&A. Session chairs should closely monitor the progress to ensure their sessions begin and finish according to the schedule.

Program at a Glance

Time	Sunday, Aug.14 th	Monday, Aug.15 th
Morning	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Registration 9:00AM - 12:00PM</div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Registration 7:30 - 10:30AM</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Opening Ceremony 8:30 - 9:30AM</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Coffee Break 9:30 - 10:00AM</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto; background-color: #e91e63; color: white;">Plenary Session I 10:00AM - 12:00PM</div>
Noon		<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Lunch</div>
Afternoon	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Registration 1:00 - 9:00PM</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">COTA Education Workshop 3:00 - 5:00PM</div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto; background-color: #e91e63; color: white;">Plenary Session II 1:30 - 3:10PM</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Coffee Break 3:10 - 3:30PM</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto; background-color: #ffc107;">Dean Forum 2:00 - 5:30PM</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto; background-color: #6f42c1; color: white;">Invited Session I & II COTA Contributed Session I 3:30 - 5:30PM</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto; background-color: #00bcd4; color: white;">Technical Session I , II & III 3:30 - 5:30PM</div>
Evening	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">VIP Welcome Dinner 6:00 - 8:00PM</div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Conference Reception 6:00 - 8:00PM</div>

Time	Tuesday, Aug.16 th	Wednesday, Aug.17 th
Morning	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Registration 7:30 - 10:30AM</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; background-color: #e91e63; color: white;">Plenary Session III 8:30 - 10:10AM</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Coffee Break 10:10 - 10:30AM</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; background-color: #8e24aa;">Invited Session III & IV COTA Contributed Session II 10:30AM - 12:10PM</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; background-color: #00bcd4;">Technical Session IV, V & VI 10:25AM - 12:10PM</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; background-color: #fff9c4;">2nd COTA-World Bank China Transport Forum 8:30AM - 12:00PM</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; background-color: #8e24aa; color: white;">Invited Session VI COTA Contributed Session IV 8:30 - 10:10AM</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; background-color: #00bcd4;">Technical Session VII, VIII & IX 8:30 - 10:15AM</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Coffee Break 10:10 - 10:30AM</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; background-color: #e91e63; color: white;">Plenary Session V 10:30AM - 12:10PM</div>
Noon	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Lunch</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">ICCTP Best Paper Award and Closing Ceremony & Farewell Lunch 12:10 - 2:30PM</div>
Afternoon	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; background-color: #e91e63; color: white;">Plenary Session IV 1:30 - 3:10PM</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; background-color: #ff9800;">Government Forum 1:30 - 5:30PM</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Coffee Break 3:10 - 3:30PM</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; background-color: #8e24aa; color: white;">Invited Session V COTA Contributed Session III 3:30 - 5:30PM</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; background-color: #8bc34a;">Reason Foundation Forum 3:30 - 5:30PM</div>	
Evening	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Conference Buffet Dinner 6:00 - 8:00PM</div>	

Program

Innovations and Best Practices in Transportation Education

COTA Pre-Conference Workshop, 3:00-5:00pm, August 14, 2011
International Conference Hotel, Nanjing, China

This pre-conference workshop is designed to help young transportation professionals gain insights into transportation education. Five accomplished faculties from China and U.S. Universities are invited to share their experience of innovative ideas and best practices in curriculum development and student advising. The workshop will also discuss the application of e-learning in international collaborations.

Organizers and Chairs:



Dr. Fang (Clara) Fang

Associate Prof., University of
Hartford



Dr. Heng Wei

Associate Prof., University
of Cincinnati

Organizers and Speakers:

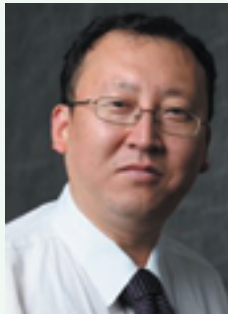


全国大学生交通科技大赛回顾与展望

关宏志，教授，北京工业大学建筑工程学院副院长

回顾历届“全国大学生交通科技大赛”（已经成功地举办了5届），总结其中的经验，并对大赛今后发展方向进行了展望。

Prof. Guan is a Professor and an Associate Dean of College of Civil Engineering in the Beijing University of Technology. He mainly engages in research on physical distribution, traffic behavior and its application. He has published over 100 academic papers and two books, such as Trip Generation Model Based on Destination Attractiveness, Urban Railway Accessibility and Modeling Park-and-Ride Choice Behavior based on a Stated Preference Survey.



Integrating Research to Education: A Junior Faculty Perspective

Dr. Xuegang (Jeff) Ban, Assistant Prof., Rensselaer Polytechnic Institute

The speaker will present his experience and plan of integrating research to educational activities including undergraduate/graduate teaching, outreach to practitioners/industry and high school students, and collaborating with minority universities. He will use his recent NSF projects as examples. Dr. Ban is an Assistant Professor at the Civil and Environmental Engineering Department of Rensselaer Polytechnic Institute. He has published nearly 25 papers in referred journals or as book chapters and nearly 20 papers in conference proceedings. He serves on the editorial board of the Journal of Intelligent Transportation Systems and is the Vice Chair of the ITS SIG of INFORMS. Dr. Ban received the 2011 CAREER award from the NSF of the U.S.



A Survey about the Graduate Curriculum of the Transportation Planning and Management Program in China

中国交通运输规划与管理学科研究生课程调研 刘攀，教授，东南大学交通工程研究所副所长

东南大学交通学院于 2011 年五月针对国内高校交通运输规划与管理学科研究生课程设置展开调研。调研对象为国内高校从事交通运输规划与管理领域教学与科研工作的教师，涉及 45 所高校，288 名教师。调研主要涉及两个议题：一、交通运输规划与管理学科研究生必修课程设置；二：相关课程主要教学内容讨论。刘攀，东南大学交通学院教授、博士研究生导师，交通工程研究所副所长。主要研究方向包括道路交通事故预防、道路交通安全改造、交通设施设计、交通流理论及通行能力研究、智能运输系统等。目前主持一项国家“十一五”科技支撑计划项目和一项国家自然科学基金青年基金项目。在国际核心期刊及重要国际会议上发表论文 40 余篇。



Integrate Research with Undergraduate and Graduate Education Dr. Lei Zhang, Assistant Prof., University of Maryland

The presenter will explore how to properly balance research and education in a transportation graduate program. Successful strategies, actual examples and curriculum innovations based on the presenter's own experience will be discussed. Dr. Zhang is an Assistant Professor in the Department of Civil and Environmental Engineering at the University of Maryland-College Park. He has published more than 80 peer-reviewed journal and conference papers. He has received external funding support from various U.S. Federal and State government agencies and private foundations, totaling \$4.37 million. Dr. Zhang is a Member of three TRB Committees. He served as the Chair of the Transportation Science and Logistics Cluster of the INFORMS.



**How to Supervise Graduate Students to Combine Theory and Practice
Dr. Yu Zhang, Assistant Prof., University of South Florida**

This talk provides the speaker's experiences on how to design course materials according to real-life needs in transportation areas. It talks about including industrial and governmental professionals into the dissertation committee of graduate students for obtaining diverse perspectives. Dr. Zhang is an Assistant Professor in Civil and Environmental Engineering at the University of South Florida. She has been recognized by receiving the 2010 Fred Burggraf Award, Aviation, for excellence in transportation research, presented by the TRB. Dr. Zhang is the committee member of two subcommittees in TRB. She is a reviewer for journals such as Transportation Science, Transportation Research Part C and the Journal of Transportation Research Record. She has accomplished and is working on various projects sponsored by Federal DOT, NSF, NASA and FAA.

**Innovating Math and Science Teaching via NSF RET Project
Dr. Heng Wei, University of Cincinnati**

An 4-min movie will be displayed showing how an NSF Research Experience for Teachers project works.

Organizers and Discussions:

**E-Learning and International Collaborations
Dr. Fang (Clara) Fang, University of Hartford**

Dr. Fang will give a brief introduction on the growing interest in the development of web-based e-learning for international education collaborations. She will host the discussion with the speakers and audiences. Following the discussion, there will be a short survey to determine the feasibility and need for the use of e-learning in curriculum development and student projects of China and U.S. transportation programs.

Morning, August 15th

Opening Ceremony(translation provided) Moderator: VIP from Southeast University		8:30am—9:30am, Aug.15, 2011 Peace Hall (和平厅)
8:30am~8:35am	Welcome and Introduction of Guests by Moderator	
8:35am~8:40am	Welcome Remarks by Hong Yi, President, Southeast University	
8:40am~8:45am	Welcome Remarks by the Mayor of Nanjing	
8:45am~8:50am	Welcome Remarks by Qingzhong You, Director, Jiangsu Provincial Department of Transportation	
8:50am~9:00am	Welcome Remarks by Yinhai Wang, Conference Co-Chair, President, Chinese Overseas Transportation Association; Professor, University of Washington	
9:00am~9:10am	Opening Remarks by Robert D. Stevens, Member of ASCE Board of Direction, Past President of Transportation & Development Institute (T&DI), ASCE	
9:10am~9:20am	Opening Remarks by Gerald Ollivier, Senior Infrastructure Specialist, China Transport Unit, World Bank	
9:20am~9:30am	Opening Remarks by Samuel R. Staley, Reason Foundation	
<i>Coffee Break</i>		<i>9:30am~10:00am, Aug.15, 2011</i>
Plenary Session I: Retrospect and Prospect Chair: Yinhai Wang, Professor, University of Washington		10:00am—12:00pm, Aug.15, 2011 Peace Hall (和平厅)
10:00am~10:40am	“Reflections of an American Academic on the Chinese Transportation System: 1986-2011,” Kumares C. Sinha, Edgar B. and Hedwig M. Olson Distinguished Professor of Civil Engineering, Purdue University	
10:40am~11:20am	“The Longest Ever Test for Driverless Vehicles,” Alberto Broggi, Professor, University of Parma, Italy; President, IEEE Intelligent Transportation Systems Society	
11:20am~12:00pm	“Connecting Bus Rapid Transit (BRT),” Ralph Gakenheimer, Professor of Urban Planning, Department of Urban Studies and Planning, Massachusetts Institute of Technology	

Afternoon, August 15th

Plenary Session II: Recent Research Advances in China (in Chinese, translation provided)		1:30pm—3:10pm, Aug. 15, 2011
Chair: Bin Ran, Professor, Southeast University		Peace Hall (和平厅)
1:30pm~1:55pm	“Green Wave Technique for Key Bus Lines,” Wei Wang, Professor and Dean, College of Transportation, Southeast University	
1:55pm~2:20pm	“New Research Developments of Vehicle Infrastructure Integration in China,” Yunpeng Wang, Professor and Dean, Beijing University of Aeronautics and Astronautics, China	
2:20pm~2:45pm	“Smart City and Intelligent & Active Transportation System,” Xiaoguang Yang, Professor, Tongji University, China	
2:45pm~3:10pm	“Incident and Emergency Management of Transportation Systems,” Shi An, Professor and Assistant to President, Harbin Institute of Technology, China	
Coffee Break		3:10pm~3:30pm, Aug. 15, 2011
Invited Session I: Towards Sustainable Transportation Systems		3:30pm—5:30pm, Aug. 15, 2011
Chair: Huaizhu (Oliver) Gao, Associate Professor, Cornell University		Friendship Hall (友谊厅)
3:30pm~3:50pm	“A Billion Urban Chinese by 2030: Policy Challenges,” V. Setty Pendakur, Professor Emeritus, University of British Columbia	
3:50pm~4:10pm	“Creating a Sustainable World,” Robert D. Stevens, Technical Region Director, ASCE Board of Direction, Executive Vice President, ARCADIS U.S., Inc.	
4:10pm~4:30pm	“Streamlining Chinese Transportation Professionals for Global International Market and Sustainable Domestic Development,” Edmond Chin-Ping Chang, President & CEO, EDCPC, Inc.	
4:30pm~4:50pm	“Vehicle Miles Traveled (VMT), Gasoline Price, and Fuel Efficiency,” Cynthia Chen, Associate Professor, Department of Civil and Environmental Engineering, University of Washington	
4:50pm~5:10pm	“Examining the Adaptation Process of People’s Behavioral Responses to High Gasoline Costs,” Xinyu (Jason) Cao, Assistant Professor, Hubert H. Humphrey School of Public Affairs, University of Minnesota	
5:10pm~5:30pm	“Can We Get There with Cleaner Air?—Temporal and Spatial Statistical Analyses of Urban Transportation Activities and Ozone Pollution,” Huaizhu (Oliver) Gao, Associate Professor, School of Civil and Environmental Engineering, Cornell University	

Afternoon, August 15th

Invited Session II: Traffic Operations and Safety		3:30pm—5:30pm, Aug.15, 2011
Chair: Clara Fang, Associate Professor, University of Hartford		Tulip Hall (郁金香厅)
3:30pm~3:50pm	"Use of Full-Scale Driving Simulation to Improve Traffic Operations and Safety," David Noyce, Associate Professor, University of Wisconsin-Madison	
3:50pm~4:10pm	"Modeling Pedestrian Traffic and Safety," Xiaojian (Allen) Nie, Transport Modeling Leader, Hatch Mott MacDonald	
4:10pm~4:30pm	"IntelliDrive Deployment Opportunities in Maryland," Mammen Daniel, President, Daniel Consultants, Inc.	
4:30pm~4:50pm	"Evaluating the Operational Effects of Unconventional Designs at Signalized Intersections in China," Pan Liu, Professor, Southeast University	
4:50pm~5:10pm	"Estimation of Time-dependent O-D Demand and Route Choice from Link Flows," Rachel He, Associate Professor, Santa Clara University	
COTA Contributed Session I: Traffic Operations		3:30pm—5:30pm, Aug.15, 2011
Chair: Zong Z. Tian, Associate Professor, University of Nevada, Reno		Yu Lan Magnolia Hall (白玉兰厅)
3:30pm~3:50pm	"Real-Time Arterial Traffic Performance Measures Using GPS-Instrumented Vehicles," Xiao Qin, Assistant Professor, Department of Civil and Environmental Engineering, South Dakota State University	
3:50pm~4:10pm	"Impacts of Freeway Traffic Congestion on En-route Traveler's Diversion," Yao-Jan Wu, Assistant Professor, Department of Civil Engineering, Saint Louis University	
4:10pm~4:30pm	"Driver Compliance Analysis of Variable Speed Limit Based Freeway Traffic Control," Tony Z. Qiu, Assistant Professor, Department of Civil and Environmental Engineering, University of Alberta	
4:30pm~4:50pm	"Using NASA-Task Load Index to Assess Drivers' Workload on Freeway Guide Sign Structures," Fengxiang Qiao, Associate Professor, Department of Transportation studies, Texas Southern University	
4:50pm~5:10pm	"Determination of the Optimal Deceleration Lane Lengths for Two-Lane Exits Considering Operational Effects," Hongyun Chen, Center for Urban Transportation Research (CUTR), University of South Florida	
5:10pm~5:30pm	"Signal Timing and Coordination – Bridging Theories and Practices," Zong Z. Tian, Associate Professor, Department of Civil and Environmental Engineering, University of Nevada, Reno	

Afternoon, August 15th

Dean Forum (in Chinese)		2:00pm—5:30pm, Aug.15, 2011
Chair: Wei Wang, Professor, Southeast University		Lilac Hall (紫丁香厅)
2:00pm~2:10pm	Welcome Remarks by Wei Wang, Professor and Dean, College of Transportation, Southeast University	
2:10pm~4:00pm	Presentation	<ul style="list-style-type: none"> - Prof. Wei Wang, Southeast University - Prof. Zhongzhen Yang, Dalian Maritime University - Prof. Xiangchen Hou, Harbin Institute of Technology - Prof. Weihua Zhang, Hefei University of Technology - Prof. Huapu Lu, Tsinghua University - Prof. Jian Lu, Shanghai Jiaotong University - Prof. Yunpeng Wang, Beijing University of Aeronautics and Astronautics - Prof. Jin Zhang, Southwest Jiaotong University - Prof. Yiming Shao, Chongqing Jiaotong University
4:00pm~5:25pm	Discussion	
5:25pm~5:30pm	Closing Remarks by Wei Wang, Professor and Dean, College of Transportation, Southeast University	
Technical Session I: Transportation Economy and Policy & Transportation Planning and Modeling		3:30pm—5:30pm, Aug.15, 2011
Chair: Yingyan Lou, Assistant Professor, University of Alabama		Violet Hall (紫罗兰厅)
3:30pm~3:45pm "Modality of Competition-cooperation among Freight Transportation Modes Based on Demonstration of Railway and Highway in China" Hongqi Li, Beijing University of Aeronautics and Astronautics	4:30pm~4:45pm "Impedance Functions of Urban Transportation Networks for Traffic Assignment" Chao Wang, Tongji University	
3:45pm~4:00pm "Study on U.S. Bridge Inspection Policies" Wanqiu Liu, Dalian University of Technology	4:45pm~5:00pm "Selection model of trip frequencies for rural population" Zhongxiang Feng, Hefei University of Technology	
4:00pm~4:15pm "A Swarm Intelligence Method for Second-best Road Pricing Problem" Zhi Zuo, Dalian University of Technology	5:00pm~5:15pm "Service reliability analysis method of bus stop's berth for buses' stay in transport system and its application" Maosheng Li, Central South University	
4:15pm~4:30pm "Road Sectional Characteristic Cluster Model for Urban Expressways" Nale Zhao, Department of Traffic Engineering, Research Institute of Highway, Ministry of Transport	5:15pm~5:30pm "Directional Restriction in Urban Transportation Networks" Lihui Zhang, Dalian University of Technology	

Afternoon, August 15th

Technical Session II: Transportation Operation, Management, Control Chair: Yunlong Zhang, Associate Professor, Texas A&M University		3:30pm—5:30pm, Aug.15, 2011 Scarlet Kafirlily Hall (君子兰厅)
3:30pm~3:45pm “Capacity of Through Short Lane Group on Urban Road Intersection” Aizeng Li, Henan University of Urban Construction	4:30pm~4:45pm “Road Network Coverage of Real-time Traffic” Jinping Guan, Tongji University	
3:45pm~4:00pm “Study of Calculating Queue Length and Delay based on Taxi GPS Data” Daren Liu, Tongji University	4:45pm~5:00pm “Personal Travel Survey Methods Analysis and Selection” Hankang Mo, Tongji University	
4:00pm~4:15pm “An Extraction Method of Road Structure for Surveillance Video” Donghua Luo, Central South University	5:00pm~5:15pm “Exploring the Contributing Factors for Drivers’ Selection of Unconventional Outside Left-turn Lanes” Jingjing Wan, Southeast University	
4:15pm~4:30pm “Analysis Of Improving The Application Level Of Public Security Traffic Command System” Hongtong Qiu, Traffic Management Research Institute of the Ministry of Public Security	5:15pm~5:30pm “Using Multivariate Poisson-lognormal Regression Method for Modeling Crash Severity on Freeways” Lu Bai, Southeast University	
Technical Session III: Sustainability & Public Transportation Chair: Hongchao Liu, Associate Professor, Texas Tech University		3:30pm—5:30pm, Aug. 15, 2011 Cordarum Hall (夜来香厅)
3:30pm~3:45pm “Dynamic Traffic Assignment Based On a Cell Transmission Model and Environmental Traffic Capacity” Tiezhu Li, Southeast University	4:30pm~4:45pm “Discussion on Emergency Public Transit Theory Under the Condition of Bad Weather” Chengming Zhu, Beijing University of Technology	
3:45pm~4:00pm “Relationships between Urban Form and Travel Behavior in Medium-size Cities of China” Wenzhu Zhou, Southeast University	4:45pm~5:00pm “Station Timetable Homogenization Assessment in Urban Rail Transit Network” Zhibin Jiang, Tongji University	
4:00pm~4:15pm “Preliminary Exploration of The Development Patterns of Green Transport: A Case Study of Jinan City” Qingyan Zang, Shandong University	5:00pm~5:15pm “Key Issues and Priority for Bicycle Management in China” Zou Linghong Beijing University of Information Science and Technology, China	
4:15pm~4:30pm “Analysis of Travelling Speed and Fuel Consumption Based on Vehicle Travelling Data Recorder for BRT in Jinan” Jianzhang Wang, Shandong University	5:15pm~5:30pm “Development of A Standard Framework for Road Weather Information System In China” Chenyang Xian, Beijing Jiaotong University	

Morning, August 16th

Plenary Session III: Monitoring and Management of Transportation Infrastructure and Systems		8:30am—10:10am, Aug. 16, 2011
Chair: Heng Wei, Associate Professor, University of Cincinnati		Friendship Hall (友谊厅)
8:30am~8:55am	"Mobile Platforms for Transportation Infrastructure Monitoring and Inspection Traffic," Gregory R. Miller, Professor and Chair, Department of Civil and Environmental Engineering, University of Washington	
8:55am~9:20am	"Evaluation of the Quality and Effectiveness of Dynamic Message Signs Using Bluetooth Sensors," Ali Haghani, Professor and Chair, Department of Civil and Environmental Engineering, University of Maryland – College Park	
9:20am~9:45am	"Visualization and Assessment of Arterial Progression Quality Using High Resolution Signal Event Data and Probe Vehicle Travel Time Data," Darcy Bullock, Joint Transportation Research Program Director and Professor of Civil Engineering, Purdue University	
9:45am~10:10am	"HOT Lane Gets HOT: Field Observations and Scientific Investigations on HOT Issues," Yin Hai Wang, Thomas and Marilyn Nielsen Professor, Department of Civil and Environmental Engineering, University of Washington	
<i>Coffee Break</i>		10:10am~10:30am, Aug. 16, 2011
COTA Contributed Session II: Transportation Infrastructure Development Chair:		10:30am—12:10pm, Aug. 16, 2011
Zhanping You, Associate Professor, Michigan Technological University		Yu Lan Magnolia Hall (白玉兰厅)
10:30am~10:50am	"The Most Important Advantages of Magnetically Levitated Trains," Hamid Yaghoubi, Director, Iran Maglev Technology (IMT), Iran	
10:50am~11:10am	"DCP, a Low-tech Approach to Control Construction Quality," Shie-Shin Wu, President, IES Consultants	
11:10am~11:30am	"Development of An Innovative and Sustainable Pavement Resurfacing Using Micro-milling and 3D Laser Technologies: A Case Study on I-95 in the US," Yi-Chang James Tsai, Associate Professor, Georgia Institute of Technology	
11:30am~11:50am	"Intermediate Temperature Fatigue and Low Temperature Cracking Properties of Rubber Asphalt Binder," Hainian Wang, Visiting Scholar, Michigan Technological University; Associate Professor, Chang'an University, China	
11:50am~12:10pm	"Properties of Recovered Asphalt Binder Blended with Waste Engine Oil: A Preliminary Study," Zhanping You, Associate Professor, Department of Civil and Environmental Engineering, Michigan Technological University	

Morning, August 16th

Invited Session III: Models for Transportation Planning and Operations		10:30am—12:10pm, Aug.16, 2011
Chair: Zhong-Ren Peng, Professor, University of Florida		Lilac Hall (紫丁香厅)
10:30am~10:50am	"Methods and Models for Green Transportation Planning," Huapu Lu, Professor and Director, Insitute of Transportation Engineering, Tsinghua University	
10:50am~11:10am	"Smart City, Smart Transportation, and Smart Modeling," Kuo-Ann (James) Chiao, Regional Director – Asia, Citilabs	
11:10am~11:30am	"Personality and Choice Behaviors: The Case of Route Choice," Hongzhi Guan, Professor, Beijing University of Technology	
11:30am~11:50am	"Multiclass Fuzzy User Equilibrium with Endogenous Membership Functions and Risk-Taking Behaviors," Yingyan Lou, Assistant Professor, Department of Civil, Construction, and Environmental Engineering, The University of Alabama	
11:50am~12:10pm	"A New Transportation Information Acquisition and Analysis Method Using Unmanned Aerial Vehicles," Zhong-Ren Peng, Professor, Department of Urban and Regional Planning, University of Florida	
Invited Session IV:Advanced Transportation Systems Operations and Management		10:30am—12:10pm, Aug.16, 2011
Chair: Jianping Wu, Professor, Tsinghua University		Friendship Hall (友谊厅)
10:30am~10:50am	"Transit Signal Priority", Dianhai Wang, Professor, Zhejiang University, China	
10:50am~11:10am	"How Driving Assistance Technologies Affect Driving Behaviors and Safety?", Wuhong Wang, Professor, Beijing Insitute of Technology, China	
11:10am~11:30am	"An Enhanced Advance Loop Placement Method for Dynamic Dilemma Zone Protection at High Speed Signalized Intersections", Heng Wei, Associate Professor, College of Engineering & Applied Science, The University of Cincinnati	
11:30am~11:50am	"Mobile Sensors as Traffic Probes: Transportation Modeling and Privacy Protection", Xuegang (Jeff) Ban, Assistant Professor, Department of Civil and Environmental Engineering, Rensselaer Polytechnic Institute (RPI)	
11:50am~12:10pm	"The Development of Intelligent Transport Systems (ITS) with the Emerging of Internet of Things," Jianping Wu, Professor, Tsinghua University, China	

Morning, August 16th

Technical Session IV: Transportation Economy and Policy & Transportation Planning and Modeling		10:25am—12:10pm, Aug.16, 2011 Scarlet Kafirlily Hall (君子兰厅)
Session Chair: Qian Wang, Assistant Professor, University at Buffalo, the State University of New York		
10:25am~10:40am "Quantifying the Severity of Traffic Conflict by Assuming Moving Elements as Points in Intersection" Miaomiao Liu, Beijing University of Aeronautics and Astronautics	11:10am~11:25am " Analysis of Impacting Factor of Route Choice Behavior with Pre-Trip Information" Weijie Wang, Southeast University	
10:40am~10:55am "Highway Horizontal Geometric Parameters Calculation from Image Processing" Jianchuan Chen, Southeast University	11:25am~11:40am "A Study on The Mobility Reliability Based on Historical Data in Beijing" Xiru Tang, Beijing University of Technology	
10:55am~11:10am "Probability Distribution of Delay about Pedestrian and non-vehicle Passing the Main Road at Unsignalized Intersection" Yulin Chang, Jiangsu University	11:40am~11:55am "Forecasting URT Share Rate Based on MNL Model" Liang Tang, Southeast University	
11:55am~12:10pm "Tourist Transport Mode Choice Behavior Model" Xiaogang Gong, Beijing University of Technology		
Technical Session V: Transportation Operation and Management & Traffic Safety and Emergency Management		10:25am—12:10pm, Aug.16, 2011 Cordarum Hall (夜来香厅)
Session Chair: Tony Z. Qiu, Assistant Professor, University of Alberta		
10:25am~10:40am "A plate character recognition algorithm based on Projection-Needle" Wenjin Yu, Sun Yat-Sen University	11:10am~11:25am "Incorporating Road Network Structures into Macro Level Traffic Safety Analysis" Xuesong Wang, Tongji University	
10:40am~10:55am "Abnormal Pedestrian Crossing Detection Based on Video Processing" Hongyu Hu, Jilin University	11:25am~11:40am "Factor Analysis of Grievous Road Traffic Accidents in China" Fangyuan Li, Chang'an University	
10:55am~11:10am "GIS-Based Coding Approach and Algorithm for Urban Road Elements" Lin Zhu, Beijing Jiaotong University	11:40am~11:55am "Evaluation of the Speed Reduction Effects of Automated Speed Enforcements on Freeways" Xu Zhang, Southeast University	
11:55am~12:10pm "Real-Time Freeway Crash Potential Prediction by Support Vector Machine" Xu Qu, Southeast University		

Morning, August 16th

Technical Session VI: Traffic Safety and Emergency Management		10:25am—12:10pm, Aug. 16, 2011
Session Chair: Xiao Qin, Assistant Professor, South Dakota State University		Tulip Hall (郁金香厅)
10:25am~10:40am “Driver’s Sight Distance Analysis based on the Three-Dimensional Image Technology” Huasen Wan, Kunming University of Science and Technology	11:10am~11:25am “Can Surrogate Safety Assessment Model Replace the Field Measurements of Traffic Conflicts?” Fei Huang, Southeast University	
10:40am~10:55am “Research on Traffic Capacity of Interchange based on Mixing Rate of Large Vehicles” Jiangang Qiao, Hebei University of Technology	11:25am~11:40am “Development of a VISSIM Module for the Simulation of Traffic Operations on Highway Segments in Vicinity of Speed Bumps” Hao Yu, Southeast University	
10:55am~11:10am “Construction of the Traffic Safety Reliability Models of Road Traffic System” Shuqing Li, Chongqing Jiaotong University	11:40am~11:55am “Modeling Violation of Pedestrian Road-Crossing Behavior at Signalized Intersections” Zhuping Zhou, Southeast University	
11:55am~12:10pm “Evaluation of Safety State of Highway Pavement Based on Pavement Distress Detection” Haiyang Leng, Southeast University		

Afternoon, August 16th

Government Forum for a Sustainable Transportation Development in China (in Chinese) 1:30pm—5:00pm, Aug.16, 2011 Moderator: Kyle Liang, Montgomery County DPW Lilac Hall (紫丁香厅)	
1:30pm~1:50pm	Welcome remarks by a leading expert from Jiangsu Provincial Department of Transportation
1:50pm~2:10pm	"A study on institutional reform toward a sustainable transportation development in China – from the central government perspective," Yulin Jiang, Professor-level senior engineer and Director, Urban Development Center, Academy of Traffic Science of the Ministry of Transportation
2:10pm~2:30pm	"National surface transportation program: a framework comparison between U.S. and China," Jason Wang, Appalachian Regional Commission, USA
2:30pm~2:50pm	"The role of Jiangsu Province city construction management department in the transportation planning, construction and management of big cities," Fumin Huang, Professor-level senior engineer and Chief engineer, Urban Planning and Design Institute of Jiangsu Province.
2:50pm~3:10pm	"Transportation management and operation at a state government level," Jianming Ma, Texas DOT, USA
3:10pm~3:30pm	"Local and city government practices in China," Yanping Li, Deputy director, Nanjing Transportation Bureau
3:30pm~3:50pm	"Transportation management and operations from a local government perspective," Kyle Liang, Montgomery County DPW, Maryland, U.S.A
<i>Coffee Break</i> 3:50pm~4:00pm, Aug.16, 2011	
4:00pm~4:50pm	Moderator: Jason Wang, COTA Panel Discussion
4:50pm~5:00pm	Closing Remarks, Zhang Lei, COTA BOD and a gov. official of China

Afternoon, August 16th

Plenary Session IV: Intelligent Transportation Systems		1:30pm—3:10pm, Aug.16, 2011
Chair: Yafeng Yin, Associate Professor, University of Florida		Friendship Hall (友谊厅)
1:30pm~1:55pm	“Electric Vehicles and the 21st Century Transportation System: Smart Cars, Smart Systems, Smart Growth,” Mani Soma, Professor, Department of Electrical Engineering; Associate Vice Provost for Research, University of Washington	
1:55pm~2:20pm	“Automatic Driving: From Vision to Reality,” Wei-Bin Zhang, Research Engineer, California PATH, University of California, Berkeley	
2:20pm~2:45pm	“IntelliDrive (Connected Vehicles) – Hype, Reality and Opportunity,” Bin Ran, Professor, Southeast University, China; Professor, Department of Civil & Environmental Engineering, University of Wisconsin	
2:45pm~3:10pm	“Sustainability and Intelligent Transportation Systems,” Asad J. Khattak, Frank Batten Endowed Chair Professor, Civil & Environmental Engineering Department, Old Dominion University	
<i>Coffee Break</i>		<i>3:10pm~3:30pm, Aug.16, 2011</i>
COTA Contributed Session III: Modeling for Transportation Planning and Operations		3:30pm—5:30pm, Aug.16, 2011
Chair: Lei Zhang, Assistant Professor, University of Maryland		Tulip Hall (郁金香厅)
3:30pm~3:50pm	“Planning of Public Transportation Systems,” Meng Li, Associate Professor, Tsinghua University	
3:50pm~4:10pm	“Development of Analytic Models for Interchange Traffic Operations Based on Simulation Results,” F. Clara Fang, Associate Professor, Department of Civil, Environmental, and Biomedical Engineering, University of Hartford	
4:10pm~4:30pm	“Long-Term Assessment of Traffic Quality in a Large Freeway Network by Macroscopic Simulation,” Ning Wu, Professor, Institute for Traffic Engineering, Ruhr-University Bochum, Germany	
4:30pm~4:50pm	“Modeling the Impact of Smart Growth on Travel Choices: An Enhanced Travel Demand Forecasting Approach,” Qian Wang, Assistant Professor, Department of Civil, Structural and Environmental Engineering, University at Buffalo, the State University of New York	
4:50pm~5:10pm	“Empirical findings of Bus Bunching Distributions and Attributes Using Archived AVL/APC Bus Data,” Miguel Figliozzi, Associate Professor, Laboratory, Department of Civil and Environmental Engineering, Portland State University	
5:10pm~5:30pm	“National and Inter-Regional Travel Demand Modeling: Data Sources, Methodological Options, and Applications,” Lei Zhang, Assistant Professor, Department of Civil and Environmental Engineering, University of Maryland	

Afternoon, August 16th

Invited Session V: Traffic Operations and Safety		3:30pm—5:10pm, Aug.16, 2011
Chair: Henry Liu, Associate Professor, Department of Civil Engineering, University of Minnesota, Twin Cities		Yu Lan Magnolia Hall (白玉兰厅)
3:30pm~3:50pm	"A Multi-Agent Adaptive Traffic Signal Control System Using Swarm Intelligence and Neuro-Fuzzy Reinforcement Learning," Yunlong Zhang, Associate Professor Zachry Department of Civil Engineering, Texas A&M University	
3:50pm~4:10pm	"Safety Implications of Driver's Use of In-vehicle Technology," Linda Ng Boyle, Associate Professor, Department of Civil and Environmental Engineering; Department of Industrial and Systems Engineering, University of Washington	
4:10pm~4:30pm	"Integrated Modeling of Environmental Impacts of Road Traffic," Xiaoliang Ma, Senior Researcher and Assistant Professor, Royal Institute of Technology (KTH), Sweden	
4:30pm~4:50pm	"Reliability of Automatic Traffic Monitoring with Non-intrusive Sensors," Honglong Li, Parsons Brinckerhoff, Honolulu, Hawaii	
4:50pm~5:10pm	"A Data-Driven Approach to Arterial Offset Optimization," Henry Liu, Associate Professor, Department of Civil Engineering, University of Minnesota, Twin Cities	
Reason Foundation Forum: Improving Mobility in China		3:30pm~5:30pm, Aug.16, 2011
Moderator: Zongzhi Li, Associate Professor, Illinois Institute of Technology		Friendship Hall (友谊厅)
3:30pm~4:00pm	"Public-Private Partnerships for Highway Construction and Management: Lessons from 'Troubled Projects' in the United States," Samuel R. Staley, Reason Foundation; Adrian T. Moore, Reason Foundation and Zongzhi Li, Illinois Institute for Technology	
4:00pm~4:30pm	"Modeling Traveler Mode Choice Behavior in a New High-Speed Rail Composite Corridor in China," Yuanqing Wang and Lei Li, Chang'an University	
4:30pm~4:50pm	"A Study of Mode Diversion toward Bus Rapid Transit in Chinese Cities," Yuanqing Wang and Zhicheng Wang, Chang'an University	
4:50pm~5:10pm	"Determining the Optimal Scale of China's Tollway Network," Jianwei Wang and Xinhua Mao, Chang'an University	
5:10pm~5:30pm	"The Status and Development Trend of Investment and Financing Models for China's Urban Fixed Guideway Systems," Fei Yan, Chang'an University	

Morning, August 17th

COTA-World Bank China Transport Forum: Improving Road Safety: from Global Actions to a Chinese Context Moderator: Jason Wang, Appalachian Regional Commission		8:30am—12:00pm, Aug.17, 2011 Friendship Hall (友谊厅)
8:30am~8:40am	Welcome Remarks by Wang Wei, Dean of Transport College, SEU;	
8:40am~8:50am	Opening Remarks by Hongwu Li, Deputy Director, Public Security and Traffic Management Bureau of Jiangsu Province	
8:50am~9:10am	"Global directions in road safety and framework for World Bank's road safety initiative in China," Tony Bliss, Road Safety Advisor and former Lead Road Safety Specialist, World Bank	
9:10am~9:30am	"Addressing challenges of road safety in China," Xiaoduan Sun, Professor, University of Louisiana and Beijing University of Technology (BJUT)	
9:30am~9:50am	"Building of institutional leadership capacity, enforcing road safety law, and the role of RoadPOL," Ken Moroney, former Commissioner of Police New South Wales, Australia. RoadPOL member	
9:50am~10:10am	"Road safety enforcement and data collection in China – a perspective from China's traffic police agencies," Changjun Wang, Deputy Director, Traffic Management Research Institute, Ministry of Public Security (MOPS)	
10:10am~10:30am	"National road safety S&T action plan – a Chinese national R&D perspective," Shouen Fang, Vice Secretary, Tongji University	
10:30am~10:50am	"Improving road safety on China's low-class roads and national safety actions from roadway perspective," Aimin Li, Director of Road Safety Research Center, Research Institute of Highways, Ministry of Transport (MOT)	
<i>Coffee Break</i>		<i>10:50am~11:00am, Aug.17, 2011</i>
11:00am~11:50am	Panel Discussion (Including Q&A for above presentations and from the forum participants)	<ul style="list-style-type: none"> - Tony Bliss, Ken Moroney, and Ian Johnston Eric Howard, Jeanne Breen, World Bank representative and invited international experts - Tingshun Jiang, MOPS Center for Traffic Management - Changjun Wang, MOPS representative - Hongwu Li, Provincial POS representative - Jingrao Wang, Deputy Director, Public Security & Traffic Management Bureau of Nanjing City (local POS rep.) - Aimin Li, RIOH, MOT representative - Xiaoduan Sun, BJUT, COTA representative - Shouen Fang, Vice Secretary, Tongji University - Wei Wang, Jian Lu, SEU
11:50am~12:00pm	Closing Remarks by Yin Hai Wang, COTA President, and a World Bank Representative	

Morning, August 17th

Invited Session VI: Intelligent Transportation Systems		8:30am—10:10am, Aug.17, 2011
Chair: Jianming Ma, Transportation Engineer IV, Texas Department of Transportation		Yu Lan Magnolia (白玉兰厅)
8:30am~8:50am	"Overview of a Full Scale Urban ITS Deployment," Dong Chen, District ITS Program Manager, Florida Department of Transportation, District 4	
8:50am~9:10am	"Benefits of ITS Research in Washington State," Doug Brodin, Research Manager, Washington State Department of Transportation	
9:10am~9:30am	"Data from Commercial GPS Devices in Truck Used to Develop Performance Measures and Identify Roadway Bottlenecks," Edward McCormack, Research Assistant Professor, Department of Civil and Environmental Engineering, University of Washington	
9:30am~9:50am	"Active Traffic Management Strategies: Implications for Freeway Operations and Traffic Safety," Jianming Ma, Transportation Engineer IV, Traffic Operations Division, Texas Department of Transportation	
9:50am~10:10am	"WiscTransportal: Intelligent Traffic Data Management," Steven T. Parker, IT Program Manager, Department of Civil and Environmental Engineering, University of Wisconsin-Madison	
COTA Contributed Session IV: Multimodal and Sustainable Transportation		8:30am—10:10am, Aug.17, 2011
Chair: Yu Zhang, Assistant Professor, University of South Florida		Lilac Hall (紫丁香厅)
8:30am~8:50am	"Investigation of Traffic Emissions in the Vicinity of an Inner City Elementary School," Mingming Lu, Associate Professor, Department of Civil and Environmental Engineering, University of Cincinnati	
8:50pm~9:10am	"Forecasting Transportation Network Evolution and Performance under Existing and Alternative Transportation Planning Processes," Lei Zhang, Assistant Professor, Department of Civil and Environmental Engineering, University of Maryland	
9:10am~9:30am	"Strategies and Key Technologies for Low-Carbon Integrated Transportation Systems in Megacities in China," Jian Lu, Professor, Department of Civil and Environmental Engineering, University of South Florida	
9:30am~9:50am	"Commercial Vehicle Travel Patterns in Urban Areas: Findings and Implications from the Denver Metropolitan Area," Qian Wang, Assistant Professor, Department of Civil, Structural and Environmental Engineering, University at Buffalo, the State University of New York	
9:50am~10:10am	"Applying Regression Models to Benchmark Airport Taxiing Performance Indicators," Yu Zhang, Assistant Professor, Department of Civil and Environmental Engineering, University of South Florida	

Morning, August 17th

Technical Session VII: Traffic Safety and Emergency Management 8:30am—10:15am, Aug.17, 2011	
Session Chair: Yao-Jan Wu, Assistant Professor, Saint Louis University Tulip Hall (郁金香厅)	
8:30am~8:45am “Numerical Simulation on Accidents Ventilation Modes in Subway Tunnel Fire” Hongde Wang,Dalian Jiaotong University	9:15am~9:30am “Optimization Model of Dynamic Emergency Resources Scheduling in Expressway Network” Zhizhou Wu, Tongji University
8:45am~9:00am “Driver’s Physiological and Mental Reaction inTunnel” Liang Zhao, Shandong Jiaotong University	9:30am~9:45am “Failure Mechanism Research of Reflective Raised Pavement Marker Based on ANSYS and Fe-Safe” Yugang Sheng, Nanjing Forestry University
9:00am~9:15am “Safety Assessment of Driver Overtaking Behavior on Two-Lane Highways” Yaqin Qin, Kunming University of Science and Technology	9:45am~10:00am “Synthetic Evaluation method research of Regional Road Safety Level” Yan Han, Beijing University of Technology
10:00am~10:15am “Experiments and Modeling on Private Space and Formation of Pedestrian Groups” Xiaolei Zou,Tongji University	
Technical Session VIII: Transportation Infrastructure & Pavement and Materials Engineering and Maintenance 8:30am—10:15am, Aug.17, 2011	
Session Chair: Zhanping You, Associate Professor, Michigan Technological University Shang Zhen Fang Room 26 (尚珍坊 26 号厅)	
8:30am~8:45am “Feasibility Research on Lateral Widening of Voided Slab Bridge between RC Structures and Pre-stressed Structures” Wenqing Wu, Southeast University	9:15am~9:30am “Research on Legibility Evaluation of the Urban Guide Signs Based on Simulating Experiment” Fengxiang Guo, Kunming University of Science and Technology
8:45am~9:00am “Application of Geogrid in Widening Highway Subgrade” Youchang Hu, Wuhan University of Technology	9:30am~9:45am “Analysis on the Relationships among Bicycle Traffic Capacity, Occupied Lane Width by Bicycles and Bicycle Traffic Demand at Intersection Areas” Xiang Zhang, Southeast University
9:00am~9:15am “Simulation Analysis and Control Research of Long Multi-Span Composite Bridge with Incremental Launching Construction” Jianping Lin, Zhejiang University	9:45am~10:00am “Microscopic Simulation Evaluation on Speed Control Strategies under Inclement Weather” Han Hu, Department of Traffic Engineering, Research Institute of Highway, Ministry of Transport
10:00am~10:15am “Numerical Simulation of Embankment Deformation Caused by Southern and Northern Slopes in Seasonally Frozen Ground Region” Weina Wang, Chang’an University	

Morning, August 17th

Technical Session IX: Logistics Engineering & Transportation Engineering & Water Transport and Aviation Session Chair: Xuegang (Jeff) Ban, Assistant Professor, Rensselaer Polytechnic Institute		8:30am—10:15am, Aug. 17, 2011 Jade Hall (碧玉厅)
8:30am~8:45am "A Tracking Management Information System for Railway Construction Materials" Ling Lu, Beijing Jiaotong University	9:15am~9:30am "Analysis on Site Selection and Distance of Inland Waterway Service Area" Junwei Peng, Shanghai Jiao Tong University	
8:45am~9:00am "Genetic Algorithm's Application In Bus Dispatch Optimization" Jianmin Jia, Shandong University	9:30am~9:45am "Application and Numerical Analysis of Frusta-like Crushed Stone Grouting Pile in Soft Foundation Widening Project" Shi Shu, Wuhan University of Technology	
9:00am~9:15am "A Hierarchical Model for Relief Distribution after Earthquake Disaster" Saini Yang, Beijing Normal University	9:45am~10:00am "Public transportation trip OD matrix inference using IC card data and GPS information" Xiangguo Wu, Shandong University	
10:00am~10:15am "Analysis of Jinan BRT speed characteristics based on vehicle traveling data recorder" Tiantian Wang, Shandong University		
Plenary Session V: Advanced Design, Management and Operations of Transportation Systems Chair: Hai-Jun Huang, Professor, Beijing University of Aeronautics and Astronautics		10:30am—12:10pm, Aug. 17, 2011 Peace Hall A (和平 A 厅)
10:30am~10:55am	"Policy and Management of Comprehensive Transportation in China," Xiaobei Guo, Director, Institute for Comprehensive Transportation, National Development and Reform Commission, China	
10:55am~11:20am	"Advances in Highway Geometric Design and Safety," Said Easa, Professor, Department of Civil Engineering, Ryerson University, Canada	
11:20am~11:45am	"Sequential Implementation of Tradable Credit Schemes for Network Mobility Management," Hai Yang, Professor, Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology	
11:45am~12:10pm	"Sustainability Framework for the Life Cycle Assessment of Light-Duty Vehicles," Panos D. Prevedourous, Professor, Department of Civil and Environmental Engineering, University of Hawaii	

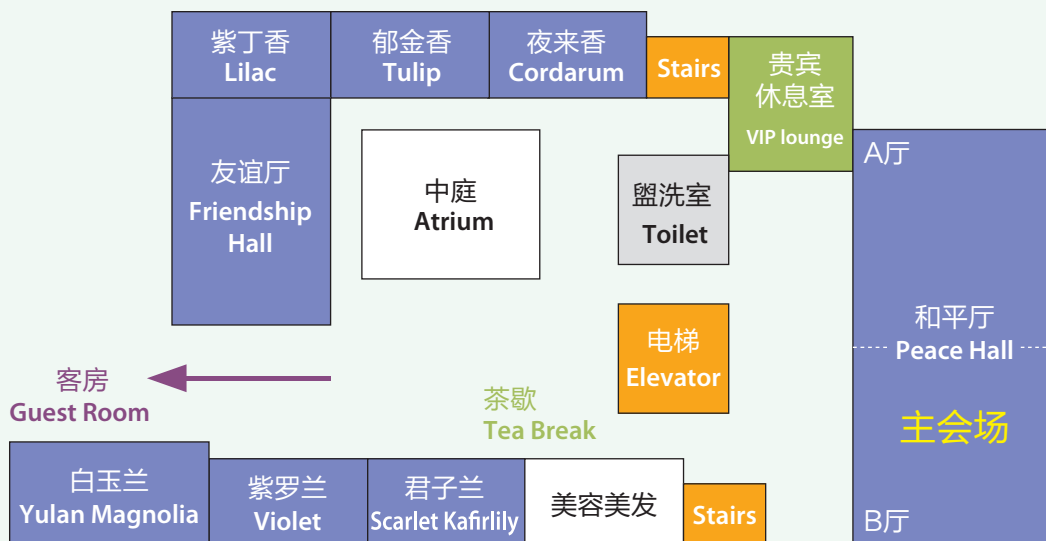
General Information

Conference Venues

All sessions and forums are held in the Nanjing International Conference Hotel. All conference rooms are located on the second floor of the hotel, as shown in Figure 1:

主楼二楼平面示意图

2nd Floor Main Building Sketch Map



主楼一楼平面示意图

1st Floor Main Building Sketch Map

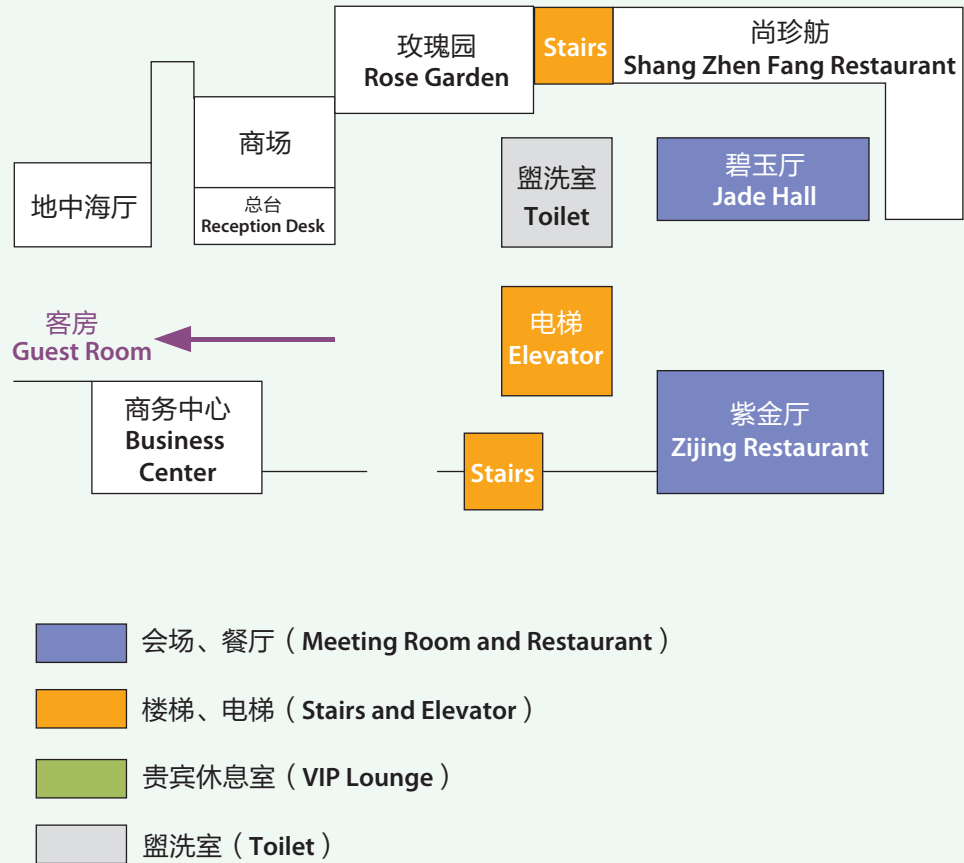


Figure 1: Conference Venue

Conference Registration

Conference registration desk is located in the lobby of Nanjing International Conference Hotel. Registration can be made 9:00am-9:00pm, August 14th; 7:30am-10:30am, August 15th and 16th.

Conference Reception

The conference reception is held in Peace Hall on the 2nd floor of the hotel (see Figure 1), 6:00pm, August 15th.

Conference Dinner

A buffet dinner is provided at 6:00 pm, August 16th to all registered conference participants in Zijjing Restaurant on the 1st floor of the hotel (see Figure1.) Additional buffet vouchers for guests can be purchased for \$15 or 80 RMB per person at the conference registration desk.

Farewell Lunch

The farewell lunch is held in Peace Hall on the 2nd floor of the hotel, 12:10pm, August 17th. A brief closing ceremony will take place, followed by an award ceremony and a handover ceremony from the ICCTP2011 organizers to the ICCTP2012 organizers.

Conference Secretariat

The conference secretariat, based in the Nanjing International Conference Hotel, provides additional support for all participants. If you have any questions or concerns during the conference, please do not hesitate to contact the conference secretariat.

Plenary Session Speakers →

Kumares C.Sinha

Ph.D.



Dr. Kumares C. Sinha is the Edgar B. & Hedwig M. Olson Distinguished Professor of Civil Engineering at Purdue University. His research interest is in transportation planning, engineering and management. He has authored over 400 technical publications including a recent book, *Transportation Decision Making: Principles of Project Development and Programming*, published by John Wiley & Sons in 2007. He has mentored numerous students worldwide. He advises governments at all levels and consults for the World Bank on transportation and infrastructure issues. He is a registered Professional Engineer and an Honorary Member of the American Society of Civil Engineers (ASCE). He has served as the President of the Transportation & Development Institute of the ASCE, President of the Research and Education Division of the American Road and Transportation Builders Association (ARTBA), President of the Council of University Transportation Centers (CUTC) and as a member of the Federal Advisory Council on Transportation Statistics. He is currently the Editor-in-Chief Emeritus of the *Journal of Transportation Engineering* and he serves as a member of the Executive

Committee of the Transportation Research Board (TRB) and the Board of Directors of the International Road Federation (IRF). Dr. Sinha has received numerous honors, including the ASCE James Laurie Prize (2011), the TRB Roy W. Crum Award (2009), the Award for Distinguished Contribution to University Transportation Education and Research given by the CUTC (2005), Wilbur S. Smith Distinguished Transportation Educator Award (2002) given jointly by the ITE and several other professional organizations, the ASCE Francis C. Turner Lecture Award (2001), the ARTBA Steinberg Award (2000), the ASCE Harland Bartholomew Award (1996), the Distinguished Engineering Alumni Award of the University of Connecticut (1995), the ASCE Arthur Wellington Prize (1992), the ASCE Frank M. Masters Award (1986) and the Fred Burggraf Award of the TRB (1972). He is a Member of the U.S. National Academy of Engineering and a National Associate of the U.S. National Academies.

Said Easa

Ph.D.



Dr. Said Easa, Professor and Chair of the Department of Civil Engineering at Ryerson University in Toronto, obtained his M.Eng. from McMaster University and Ph.D. from University of California at Berkeley. He has been active in the field of transportation engineering for nearly 25 years. His research has covered various areas of transportation engineering, including road safety, emergency response, traffic operations and management, transportation planning, ports and railways, geometric design, and data modeling.

Dr. Easa currently serves as Vice-President (Administration) of the Canadian Society for Civil Engineering (CSCE) and a member of its Board of Directors. He has served as Chair of the CSCE Transportation Division and its American Society of Civil Engineers (ASCE) counterpart. He was keynote speaker at several international conferences and a keynote speaker of a 2002 CSCE national lecture tour on road safety conducted in 12 cities across Canada. In 1996, Dr. Easa initiated and chaired the highly successful CSCE transportation conference series. In 1998, he led a CSCE delegation to China and Pakistan focusing on sustainable transportation.

In 1998, he co-chaired a national ASCE conference, held in Portland, Oregon. Dr. Easa has published 19 edited books and chapters, 24 professional magazine articles, and over 140 refereed journal articles, including an ASCE best-selling book on Urban Planning and Development Applications of GIS. He has served as expert witness in several court cases involving road and railway safety, and external referee for research projects overseas. Dr. Easa received many national and international best-paper and lifetime achievement awards, including the 2001 Frank M. Masters Transportation Engineering Award from the American Society of Civil Engineers for "outstanding contributions to ASCE and the transportation profession throughout his career" and the 2003 Sandford Fleming Award from the Canadian Society for Civil Engineering for "outstanding contributions to the development and practice of transportation engineering in Canada."

Wei Wang

Ph.D.



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 27 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 1 project sponsored by the National Basic Research Program of China,

5 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 40 million RMB. Dr. Wang Wei has authored more than 140 papers in referred journals and conference proceedings, and published 9 books. He also holds 17 patents. Dr. Wang is the recipient of numerous national awards. He is the recipient of 3 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.

Mani Soma

Ph.D.



Mani Soma received the B.S.E.E. degree from California State University, Fresno, in 1975, and the M.S. and Ph.D. degrees from Stanford

University, Stanford, CA, in 1977 and 1980, respectively. From 1980 to 1982, he was with the General Electric Research and Development Center, Schenectady, NY, working on design and test methodologies for VLSI integrated circuits and systems. He is with the Department of Electrical Engineering, University of Washington, Seattle, where he has been a Professor since 1988. He was the Associate Director of the NSF Center for Design of Analog–Digital ICs from 1989 to 1994. He founded and chaired the IEEE Mixed-Signal Test Bus Standard Working Group (1149.4) from 1991 to 1995 and remains active in standard development. He helped found the Pacific Northwest Test Workshop, which has become the annual IEEE International Mixed-Signal Testing Workshop. He has published papers in electronic design, test, and reliability and has more recently focused on research in mixed analog-digital system design and test. Dr. Soma was the

recipient of the IEEE Computer Society Meritorious Service Award (1995) and the IEEE Computer Society Golden Core Award (1997). He is a Fellow of the IEEE. He was Technical Program Chair of the IEEE International Symposium on Circuits and Systems (ISCAS) in 1995, General Co-Chair of ISCAS 2008, and is currently President of the IEEE Circuits and Systems Society.

Gregory R. Miller

Ph.D.



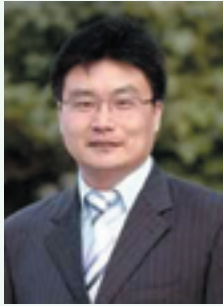
Dr. Gregory R. Miller is a Professor and Chair of Civil and Environmental Engineering at the University of Washington in Seattle.

He received his BSCE from the University of Washington, and his MSCE and PhD from Northwestern University in Evanston, Illinois. His research and instruction have focused primarily in the areas of applied mechanics and computational methods, with

applications including structures, geotechnical systems, and transportation infrastructure. His technical expertise centers around numerical methods, sensors, and software development, and he and his graduate students have produced a number of software packages that are widely used in both commercial and educational contexts. During his career he has had a number of local and national leadership roles, serving most recently as Associate Dean for Infrastructure and Computing for the College of Engineering prior to taking on the Civil and Environmental Engineering Chair position at the end of 2009.

Shi An

Ph.D.

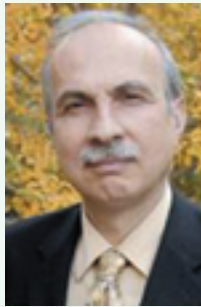


Dr. Shi An is currently a Professor of Traffic Engineering at Harbin Institute of Technology -- Harbin City, China. His research

interests are in the area of emergency traffic management, modeling, and control, which includes evacuation traffic flow modeling and simulation, emergency operations, integrated traffic management under various types of disasters. On these topics, he has published more than 40 articles in related journals. Dr. An is a member of China Higher Education Steering Committee, Traffic Engineering Subject and a member of China System Engineering Committee, Transportation System Engineering Subject. He is also on the editorial board for Journal of Transportation System Engineering and Information Technology. Dr. An has received the sponsorship by New Century Excellent Talents Plan, China Ministry of Education in 2006, the Heilongjiang Province Science Fund for Distinguished Young Scholars in 2009 and the New Faculty Award from Fok Ying Tung Education Foundation in 2003.

Ali Haghani

Ph.D.



Dr. Haghani completed his Bachelor of Science degree in Civil Engineering from Shiraz University in 1976, and subsequently received his Master of Science

and Doctor of Philosophy degrees in the Department of Civil Engineering at Northwestern University in 1982 and 1986. He taught at University of Pittsburgh for three years before joining the faculty of the Department of Civil Engineering at the University of Maryland in August 1990. He has been the Department Chairman since Fall 2003. He assumed the position of the Director of Center for Integrated Transportation Systems Management (CITSM) at the University of Maryland in 2010.

Dr. Haghani's research interests are in transportation network modeling, freight transportation and logistics, emergency response, dynamic fleet management, container transportation and mass transit operations. Dr. Haghani is currently serving as the associate editor of Journal of Intelligent Transportation Systems. He served as the Chairman of the Network Modeling Committee of Transportation Research Board between 2001 and 2007.

Ralph Gakenheimer

Ph.D., FAICP



Dr. Ralph Gakenheimer is Professor Emeritus of Urban Planning at the Massachusetts Institute of Technology (MIT). He is a Fellow of the

American Institute of Certified Planners and Chair of the Transportation in Developing Countries Committee of the Transportation Research Board of the US National Academy of Science. His interest is transportation and urban land in cities experiencing rapid urbanization and rapid motorization. His new book is Urban Transport in the Developing World: a Handbook for Policy and Practice co-edited with Professor Harry Dimitriou (Edward Elgar Press, Cheltenham UK, March 2011)

Yunpeng Wang

Ph.D.



Yunpeng Wang, Ph.D., Professor, Dean of School of Transportation Science and Engineering, Beihang University;

vice chief of the experts in the field of Modern Transport Technology of the National High Technology Research and Development Program of China (863 Program); executive director of China Highway & Transportation Society, won the 7th China Science & Technology Awards for the Youth. His research interests include intelligent transportation systems and cooperative vehicle infrastructure systems. He has published over 100 academic papers, 55 of which were indexed by SCI / EI / ISTP, and gained scientific and technological progress prizes 10 times. His representative prizes are "The key technologies of vehicle's operation performance and security warning detection and its application" (The Science and Technology Progress Award of Ministry of Education, 2008) and "the traffic environment control technology and clean research standards" (Jilin province Science and Technology Progress Award, 2005).

Alberto Broggi

Ph.D.



Dr. Alberto Broggi is a professor of Computer Engineering at the University of Parma in Italy, and CEO of the VisLab spinoff

company. As a pioneer of machine vision applied to driverless cars and unmanned vehicles, he is the principal investigator of many projects involving autonomous vehicles, like the ARGO prototype vehicle, the TerraMax entry at the DARPA Grand Challenge and Urban Challenge, and BRAiVE. Under his leadership VisLab organized the first intercontinental driverless trip in history, named VIAC - VisLab Intercontinental Autonomous Challenge. He acted as Editor in Chief of the IEEE Trans on Intelligent Transportation Systems from 2004 to 2008. For the term 2010-2011 he is serving the IEEE Intelligent Transportation Systems Society as President.

Xiaoguang Yang

Ph.D.

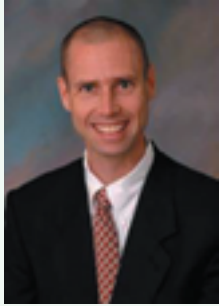


Dr. Xiaoguang Yang is a professor and director of Department of Traffic Engineering at Tongji University.

He received his Bachelor and Master degrees from Tongji University and Ph.D. degree from Kyoto University, Japan. His area of interest include: New Traffic signal control Systems, Advanced Public Transit Systems, Traffic System Engineering, Smart City and Transportation Planning. Dr. Yang is a member of State Urban Transport Planning Committee, P.R. China, and ITS Consultants and Experts Committee, P.R. China.

Darcy Bullock

Ph.D. P.E.



Darcy Bullock is a Professor in the School of Civil Engineering at Purdue University and serves as the Director of the Joint Transportation

Research Program. Bullock received his Ph.D. from Carnegie Mellon University in 1992 and has over twenty years of experience in the field of Transportation System Operations. He has completed several projects with the Federal Highway Administration, National Cooperative Highway Research Program, National Science Foundation, Department of Homeland Security, Houston Airport System as well several state and local transportation agencies. His most recent work has been in the development of operations based performance measures for signalized arterials that not only identify operational challenges, but also provide guidance to operations engineers on how to prioritize their efforts so that intersections with the most opportunity for improvement are identified first. Results from that collaborative effort with the Indiana Department of Transportation and the Traffic Signal Industry are rapidly being adopted by many agencies throughout the United States.

Panos D. Prevedouros

Ph.D.



Dr. Prevedouros graduated with a 5-year Diploma in Engineering from Aristotle University of Greece in 1984 and with Masters and Doctorate degrees in

civil engineering in 1990 from Northwestern University. He is the current president of the Hawaii Highway Users Alliance and also was its president from 2006 to 2008. Dr. Prevedouros co-authored an internationally adopted Transportation Engineering and Planning textbook (Prentice Hall) and over 100 reports and technical papers. He is the recipient of the 2005 Van Wagoner Award of the Institute of Transportation Engineers and multiple community recognition awards in Hawaii. He co-organized the 1st International Symposium on Freeway Operations in Athens, Greece in 2005, and chaired the 2nd Symposium in Honolulu in June 2009. He is subcommittee chair of Freeway Operations Simulation at the Transportation Research Board, Washington, D.C.

Hai Yang

Ph.D.



Dr. Hai Yang is currently a Professor in the Department of Civil and Environmental Engineering, The Hong Kong University of Science and

Technology. He received his Bachelor degree from Wuhan University, China, and PhD from Kyoto University, Japan. Prof. Yang specializes in transportation system analysis and transportation economics and has published extensively in leading international journals, such as Transportation Research, Transportation Science and Operations Research. Currently, Prof. Yang serves as associate/area editors of two major international journals in the transportation field: Transportation Research Part B and ASCE Journal of Transportation Engineering.

Wei-Bin Zhang



Wei-Bin Zhang is a Research Engineer at the California PATH Program, Institute of

Transportation Studies of University of California at Berkeley (UCB) and the Program Leader for the PATH Modal Applications Program. Mr. Zhang visited ITS in 1987 and was subsequently employed by UC Berkeley and participated in the early founding of the California PATH Program. Prior to joining UCB, he was a Lecturer at Northern Jiaotong University where he still serves as an Adjunct Professor.

Mr. Zhang has been leading and conducting research in Intelligent Transportation Systems (ITS) since 1987. Between 1994 and 1995, he was the first Technical Director of National Automated Highway Systems Consortium (NAHSC), a \$210M program led by General Motors and U.S. Department of Transportation providing technical directions and oversight for the execution of Consortium's technical activities. Between 1996 and 1997, Mr. Zhang managed the preparation

for a major demonstration for Demo '97, a Congress-mandated national technical feasibility demonstration of Automated Highway Systems (AHS). He was responsible for development of system concepts, system development, debugging, and integration efforts conducted by University of California PATH Program, General Motors, Delco Electronics and Hughes. Since 1997, Mr. Zhang led the efforts in establishing a number of research and deployment programs at PATH, including study of guidance technologies for snowplow and snowblower operation, transit collision warning systems and studies on Bus Rapid Transit.

Yinhai Wang Ph.D.



Dr. Wang is a Professor in the Civil and Environmental Engineering Department at the University of Washington (UW). Dr.

Wang is the founder of the Smart Transportation Applications and Research Laboratory

(STAR Lab) at the UW. Through his consistent efforts, the STAR Lab has received broad support from both public transportation agencies and private companies. It has become the remote training center for the Washington State Department of Transportation. Dr. Wang has conducted extensive research in traffic detection systems, traffic accident modelling, transportation data management and analysis, traffic operations, advanced traffic control systems, and traffic simulation. He has published fifty peer-reviewed journal articles. He serves as members on Freeway Operations Committee (AHB20), Highway Capacity and Level of Services (AHB40), and Transportation Information Systems and Technology Committee (ABJ50) of Transportation Research Board (TRB). He also serves on the Board of Governors for the IEEE Intelligent Transportation Systems Society. Dr. Wang is the winner of the ASCE Journal of Transportation Engineering Best Paper Award for 2003. He is currently an associate editor for the ASCE Journal of Computing in Civil Engineering and the Thomas & Marilyn Nielsen Professor at the UW.

Bin Ran

Ph.D.



Dr. Bin Ran holds the title of National Distinguished Expert in China and is the Director of IntelliDrive Center at the Southeast University, China. Dr. Ran is also a 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 is an expert in dynamic transportation network models, traffic simulation and control, traffic information system, and IntelliDrive (Connected Vehicles). 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 about 60 journal papers and more than 140 referenced papers at national and international conferences. He holds 3 US patents and 2 Chinese patents, and has a few patents pending in the US and China. He is an associate editor of Journal of Intelligent Transportation Systems. He is the Founding President

of North America Chinese Overseas Transportation Association (NACOTA, currently named as Chinese Overseas Transportation Association or 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.

Asad J. Khattak

Ph.D.



Dr. Asad J. Khattak is Frank Batten endowed chair Professor of Civil Engineering at Old Dominion University, where he teaches and conducts research in transportation. Since Fall 2006, he has directed ODU's Transportation Research Institute and educational programs. Dr. Khattak's own research focuses on various types of innovations related to (a) intelligent transportation systems (their planning/operation and behavioral impacts), (b) transportation safety, and (c) sustainable transportation. Before joining Old Dominion University, Dr. Khattak was Professor of Transportation at University of North Carolina-Chapel Hill (1995-2006), and Research Engineer at the California PATH Program, University of California at Berkeley (1991-1995). Dr. Khattak received his Masters and Ph.D. degrees in Civil Engineering from Northwestern University in 1988 and 1991, respectively. He has a little more than 16 years of research experience and 13 years of teaching experience in the transportation field, after completing his Ph.D. He has authored 82 scholarly journal articles and 52 technical reports to research sponsors. He has presented his research work at numerous international conferences. As a principal- or co-investigator,

he has successfully obtained 47 sponsored research and educational projects totaling \$5 million. Dr. Khattak is Editor for the Journal of Intelligent Transportation Systems, Taylor and Francis Publishers. The journal is listed in the Science Citation Index, with an impact factor of 0.727 in 2009. Since 2004, as editor-in-chief he has managed publication of 28 issues of the journal. He is also Associate Editor of SCI-indexed International Journal of Sustainable Transportation, Taylor and Francis Publishers, with an impact factor of 0.750 in 2009. He is a member of the Committee on Intelligent Transportation Systems, Transportation Research Board, National Academies.

Invited Session Speakers →

Huapu Lu

Ph.D.



Dr. Huapu LU, professor, doctoral tutor, director of the Institute of transportation engineering of Tsinghua University

He has studied in Japan from 1987 and received his doctor's degree in transportation engineering from Nagoya University in 1993. In 2001 he is promoted as a professor and received the academic rookie award from Tsinghua University. He has presided over many research projects funded by the National Natural Science Fund, the national 9th and 10th five-year plans, the State Planning Commission, the Ministry of Public Security and other relevant ministries as well as more than 100 practical items involving transport planning, intelligent transportation etc carried out in many Chinese cities such as Dalian, Hangzhou, Shenyang, Wenzhou, Lanzhou etc. Now he is undertaking several national key research projects including National High-Tech Research and Development Program of China, National Key Technology R&D Program and Beijing road traffic flow dynamical forecasting system development and so on. He has also published over 200 articles in journal of Tsinghua University, Journal of Highway and Transportation Research and Development, China Journal of Highway and Transport,

and other publications. He is also the author of a number of academic works such as "theory and method in transport planning", "modern urban traffic management," "integrated transport hub planning", "urban rail transit research and practice", "analysis of urban traffic", "intelligent transportation system", "Sustainable Urban Mobility in Rapid Urbanization: Theory and Practice in China" and "urban traffic management evaluation system".

Hongzhi Guan

Ph.D.



Prof. Guan graduated from Xi'an Highway Institute (now, is Chang'an University) and then acted as a teacher at that

University. He was granted Master's Degree in Xi'an Highway Institute 1989. He went to Japan to further his study in Oct. 1993. He was granted Ph. D degree in Kyoto University in 1997. After graduation from Kyoto University, he began to engage in scientific research in Yamanashi University. He mainly engages in research on physical distribution, traffic behave and its application. He has published over 100 academic papers and two books, such as Trip Generation Model Based on Destination Attractiveness, Urban Railway Accessibility and Modeling Park-and-Ride Choice Behavior Based on a Stated Preference Survey. He returned to Beijing University of Technology China in 1999 and began to engage in research on transportation planning, parking public transportation, etc. Research areas: transportation planning.

Wuhong Wang

Ph.D.



From 1997 to 1999, Dr. Wang spent two years as a postdoctoral fellow at Beihang University after finished his Ph. D

studies in transportation management engineering from Southwest Jiaotong University, and then he joined Beijing Institute of Technology since 1999 first as an associate professor then a full professor in traffic engineering. Dr. Wang stayed at Computer Vision laboratory, Institute of Industrial Science, the University of Tokyo, Japan, as a JSPS Researcher in 2002-2004 and Visiting Professor in 2005. From 2005 to 2007, Prof. Dr. Wang had been affiliated with Lehrstuhl für Ergonomie, Technische Universität München, Germany, served as a Humboldt Research Fellow.

Pan Liu

Ph.D.



Pan Liu is a professor at the School of Transportation at the Southeast University in Nanjing, China. He received a B.S. degree

from the Southeast University in 2000 and a Ph.D. degree in transportation engineering from the University of South Florida (USF) in the United States in 2006. Pan Liu's research interests include traffic operations and safety, access management, and traffic design. He is currently serving as PI for two research projects funded by the National Scientific Foundation and the Department of Social Security in China. He has been actively involved in 10 research projects funded by the Florida Department of Transportation and other national agencies in the United States. Pan Liu has published more than forty research papers in refereed journals and conferences.

Heng Wei

Ph.D., P.E.



Dr. Heng Wei is an Associate Professor of Transportation Engineering and Systems in the School of Advanced Structures (SAS) at The University of

Cincinnati (UC). He is the director of Advanced Research on Transportation Engineering and Systems (ART-Engines) Laboratory at UC. He has a wide spectrum of research interests and expertise in advanced transportation systems. His research has resulted in 112 peer-reviewed papers and 8 professional books/chapters. He has won 8 professional awards and honors for his outstanding research and education achievements. His excellent graduate advisement has resulted in winners of seven major paper competition awards and scholarships nationwide in the US by five of his graduate students. He is a number of numerous outstanding professional committees, such as ASCE T&DI Advanced Technology & Safety Committees, and TRB ABE90 Committee. He is the Chair of IEEE ITSS Travel Information & Traffic Management Committee and vice president of COTA. He was ever a lecturer faculty at University of Southern California in 2003-04 and employed at Iteris, Inc. in 2000-04.

V. Setty Pendakur

Ph.D.



Professor Pendakur taught at the University of British Columbia for 30 years and started a new life as a Consultant

and Senior Advisor to a number of Asian governments. He has published more than 100 papers in refereed journals and authored several books commissioned by the UNDP and the World Bank. He has also taught at more than 20 universities around the world. He is currently Honorary Professor at the National Academy of Sciences of China and teaches regularly in China, India and Thailand. Professor Pendakur is currently President of Pacific Policy and Planning Associates, a firm specializing in Policy and Planning in International Development. He has worked in more 30 countries and more particularly in Bangladesh, China, India, Philippines, Singapore, Thailand and Vietnam. Professor Pendakur is currently a Senior Counselor to the State Council of the PRC, and the Government of Singapore.

Zhong-Ren Peng

Ph.D.



Dr. Zhong-Ren Peng is Professor at the Department of Urban and Regional Planning at the University of Florida,

and Changjiang Scholar at the School of Transportation Engineering of Tongji University in China. He received his B.S. in Geography from Huazhong Normal University and M.S. in Geography from Chinese Academy of Science, and his M.S. in Economics and Ph.D. in Urban Studies from Portland State University. His research interests are in transportation and land use modeling, Intelligent Transportation Systems (ITS), Geographic Information Systems for Transportation (GIS-T), and advanced transportation information systems. Dr. Peng is also the Chair of International Association for China Planning (IACP) and co-Chair of the Sensing Technologies for Transportation Subcommittee at the Transportation Research Board (TRB). He has published over 30 papers in referred journals and the first book "Internet GIS" which has become a definitive work in the field of Internet GIS and the primary textbook and reference book in universities worldwide.

Robert D. Stevens

Ph.D.



Dr. Robert D. Stevens, P.E., F.ASCE is a member of the ASCE Board of Direction, a Past President of

ASCE's Transportation & Development Institute (T&DI), and an Executive Vice President with ARCADIS U.S., Inc. in Fort Worth, Texas. Throughout his career he has worked in the transportation area where he has lead environmental assessments, planning, design, and construction management of roads, bridges, rail, transit, and airport projects. He oversaw the first design/build transit project in North America in 1974. He has worked both in the U.S. and abroad in eight countries. He has taught classes at The University of Akron, Ohio, The University of Michigan, and Cleveland State University. He graduated from The University of Akron with B.S. degrees in civil engineering and mathematics, Yale University with a Masters in City Planning and a Certificate in Traffic Engineering, and The University of Michigan with an M.S. and a Ph.D. in civil engineering with a transportation focus. As a member of the ASCE Board, he serves on the Audit and Strategic

Planning Committees. He also serves as a member of several ASCE award committees. He was a founding governor and officer of ASCE's T&DI. He is a registered professional engineer in eight states.

Jing (Connie) Li

Ph.D, PE



Dr. Jing (Connie) Li is the Co-founder and COO of TrafficCast International. Before founding TrafficCast, Dr. Li also founded and

has been serving as President/CEO of TranSmart Technologies, a traffic and transportation consulting business. Dr. Li has more than 20 years of experience in the advanced technology areas in traffic and transportation engineering. She is an outstanding researcher and practitioner in traffic flow theory and is a co-author of one of the leading traffic flow texts. Dr. Li earned her Bachelor, Master, and PhD degrees in three

languages across three countries. Dr. Li received her Bachelor degree from Tsinghua University, China. She won a coveted scholarship to University of Tokyo in Japan, where she was the first woman in more than a hundred years to earn a Master of Science degree in traffic engineering. She received her PhD degree in traffic engineering at the University of Illinois at Chicago. Dr. Li is a registered Professional Engineer (PE) in Wisconsin, Minnesota, Illinois, and Arizona, United States. She has been recognized as an Outstanding Executive, Emerging Business, by Global EXEC Women. As COO, Connie focuses on operations and emerging technology areas for the company, for which she served the previous four years as CEO.

Xiaoduan Sun

Ph.D., PE.



Dr. Xiaoduan Sun, professor at the Civil Engineering Department of University of Louisiana, received B.S. and M.S.

degree in Highway Engineering from Xian Highway Transportation Institute (Chang An University) and a PhD degree in Transportation Engineering from the Ohio State University. Her research interests are in roadway safety, application of new technology in transportation data analysis, and human factors in traffic safety. Since 2003, Dr. Sun also worked as specially invited professor at Beijing University of Technology. Over the past decade, she has conducted many research projects focusing on various aspects of roadway safety in both countries. In her professional career, Dr. Sun has served numerous professional committees at both national and local levels, and received several awards including the Endowed John E. and Joretta Achee Chance Professorship, Louisiana Engineering Faculty Professionalism Award, and James M. Todd Technological Accomplishment Medal from Louisiana Engineering Society.

David A. Noyce

Ph.D., PE.



Dr. David Noyce is an Associate Professor at Department of Civil and Environmental Engineering, and the Director of Traffic Operations

and Safety (TOPS) Lab, at the University of Wisconsin-Madison. He received his Ph.D. degree in Civil Engineering at Texas A&M University in 1999. His research interests include Transportation Safety, Vehicle Crash Analysis, Traffic Operations, Geometric Design, Traffic Simulation, Driving Simulation, Human Factors, Intelligent Transportation Systems, Bicycles and Pedestrians. He is the Associate Chair of the Graduate Program at the Department of Civil and Environmental Engineering and the Chair of University of Wisconsin-Madison Campus Transportation Committee. He is the Chair of Traffic Control Devices Committee of Transportation Research Board, and a member of Institute of Transportation Engineers, American Society for Engineering Education, American Society of Civil Engineers, National Committee on Uniform Traffic Control Devices and ITS America. He is also active in many other national and international professional organizations.

Yunlong Zhang

Ph.D., PE.



Dr. Yunlong Zhang is an Associate Professor at Zachry Department of Civil Engineering at Texas A&M University

and holds a joint appointment with the Texas Transportation Institute (TTI). He received his B.S. and M.S. in Civil Engineering from Southeast University, and his PhD degree in Transportation Engineering from Virginia Tech. His research interests are in traffic operations, transportation modeling and simulation, Intelligent Transportation Systems (ITS), traffic signal systems and control, and artificial intelligence applications in traffic engineering. Dr. Zhang has published over 30 papers in referred journals and over 50 papers in conference proceedings.

Shouen Fang

Ph.D.



Dr. Shouen Fang, professor at the School of Transportation at the Tongji University, is currently serving as the vice secretary of the Party Committee at

the Tongji University in Shanghai, China. His research interests include highway planning and design, traffic safety, and computer aided roadway design. He has served as PIs for more than 30 research projects sponsored by national and provincial governments, including projects sponsored by the national 863 Program and the National Key Technologies R & D Program. Dr. Fang has published more than 80 papers in referred journals and conference proceedings, and 5 books. He is recipient of 3 Science & Technology Awards of the Highway Research Board in China. He currently serves as leaders at the advisory board for the National Science and Technology Plan of Action for Traffic Safety and the National Traffic Crashes Prevention Program. He is a board member of the Municipal Engineering sub-committee at China's Association of Civil Engineering, and the vice chairman of the Academic Committee of Urban Roadway and Traffic Technology.

Jianping Wu

Ph.D.



Dr. Jianping Wu is a professor at Tsinghua University. He is also the Yangtze River Scholar Professor awarded by the Ministry

of Education of China, and a Senior Technical Director and Worldwide ITS Ambassador at WSP. Dr. Wu's research interests include studies into: road user behavior, fuzzy logic and artificial intelligent applications, traffic flow theory, GPS and floating vehicle technologies, road network evaluation, traffic state estimation and traffic management, ramp metering and access control, ITS project design and social economic assessment, and public transport operation and priority methodologies. Dr. Wu has participated in and managed over 50 national and international research projects.

Dianhai Wang

Ph.D.



Dr. Dianhai Wang is a Professor of Traffic Engineering at Zhejiang University, Hangzhou City, China. The area of his expertise

include traffic control, traffic flow theory, and traffic information techniques such as driving behavior modeling and simulation and traffic video detection. On these topics, he has published more than 100 articles in related journals such as Transportation Research part A and Journal of Urban Planning and Development. Dr. Wang is a member of China Higher Education Steering Committee, Traffic Engineering Subject and a member of China City Planning Academic Committee. Dr. Wang has received the National Science and Technology Progress Award and in 2004 and the Science and Technology Progress Award of Jilin province in 2009.

Aimin Li

Ph.D.



Limin Li, research professor, is the deputy chief engineer of the Research Institute of Highway Ministry of Transport and

director of the Highway Safety Research Center in Beijing, China. He also serves as the vice deputy director of the National Center for Quality Supervision and Testing of Traffic Safety Facilities and the vice secretary of the National Standardization Technical Committee for Highway Facilities. He is a member of the Expert Team of Transportation Engineering recognized by the national Department of Transportation in China. Mr. Li is specialized in the research, design, and standardization of road traffic facilities. He has been actively involved in more than 60 national projects on the design of freeway traffic facilities. He has developed and published more than 10 national standards or guidelines in traffic engineering.

Changjun Wang

Ph.D.



Mr. Changjun Wang is mainly engaged in the research, development and

implementation of traffic safety, traffic control, ITS and transportation management information system. He has led more than 10 national scientific research projects such as the National 863 plans, scientific support (torch-plan projects research plan), etc. He was also in charge of more than 20 provincial research projects and an amount of local traffic management projects. He has obtained the membership of the national expert consultation committee of intelligence transportation system, and he also holds the post as the vice leader of the expert group of national scientific and technical action plan in road traffic safety. Meanwhile, he is the deputy leader of the expert group of national road traffic accident prevention.

Hongwu Li

Ph.D.



Dr Hongwu Li is the deputy director, at Public Security and Traffic Management Bureau of Jiangsu Province, China.

He received a Ph D. degree in transportation engineer from the Southeast University in China. Dr. Li's research interests include traffic operations, traffic safety and emergency management. His representative prizes are "Jiangsu province driver's Illegal incident management information system" (Jiangsu province Science and Technology Progress Award, 2004) and "key technologies and engineering application of intelligent urban traffic management systems" (Jiangsu province Science and Technology Progress Award, 2007).

Yafeng Yin

Ph.D.



Dr. Yafeng Yin is an associate professor at Department of Civil and Coastal Engineering, University of Florida. He has worked

extensively in the areas of transportation systems analysis, modeling and optimization, and has published over 40 refereed papers in leading academic journals. Dr. Yin is an Associate Editor for Journal of Advanced Transportation, an Area Editor for Journal of Transportation Safety and Security and serves on the editorial boards of Transportation Research Part C, International Journal of Sustainable Transportation, and ASCE Journal of Infrastructure Systems. He is a member of Transportation Network Modeling Committee of Transportation Research Board and a member of Traffic Signal Operations Committee of Institute of Transportation Engineers. Dr. Yin has served on the Board of Directors of Chinese Overseas Transportation Association (COTA) since 2008 and is currently the chair of its academic affairs committee. Dr. Yin received his Ph.D. from the University of Tokyo in 2002, his master and bachelor degrees from Tsinghua University in

1996 and 1994 respectively. Prior to his current appointment at the University of Florida, he worked as a postdoctoral researcher and then an assistant research engineer at University of California at Berkeley between 2002 and 2005. Between 1996 and 1999, he was a lecturer at Tsinghua University.

Huaizhu (Oliver) Gao

Ph.D.



Dr. Gao is an Associate Professor (with tenure) 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 (Transportation Systems 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 low carbon and low

emission transportation systems, environment (especially air quality and climate change)-energy systems, and sustainable development. He also studies green supply chain and logistics (e.g., sustainable food systems, quantifying and mitigating green-house gas emissions from food supply chains). He is a member of Transportation Research Board Committee on Transportation and Air Quality (ADC20), an academic member on the Federal Advisory Committee of US EPA MOVES model development, a member of Transportation Research Board Committee on Maintenance Equipment (AHD60), and a member of the Cornell Atkinson Center for a Sustainable Future (ACSF). 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 dual undergraduate degrees in Environmental Science and Civil Engineering in 1996 from Tsinghua University, China.

Henry Liu

Ph.D.



Dr. Henry Liu is currently an Associate Professor of Civil Engineering at the University of Minnesota -- Twin Cities. Before joining

UMN, he was an assistant professor at Utah State University and a post-doctoral researcher at the University of California, Berkeley. He received his Ph.D. in Civil and Environmental Engineering from the University of Wisconsin -- Madison in 2000. His research interests are in the area of traffic network monitoring, modeling, and control. He has published more than 45 articles in peer-reviewed journals. Dr. Liu is a member of Transportation Network Modeling Committee of Transportation Research Board (TRB) and a member of Traffic Signal Operations Committee of Institute of Transportation Engineers (ITE). Dr. Liu is also on the editorial board for Journal of Intelligent Transportation Systems and IET Intelligent Transportation Systems Journal.

Linda Ng Boyle

Ph.D.

Dr. Linda Ng Boyle is an Associate Professor with joint appointments in Civil and Environmental Engineering, and Industrial and Systems Engineering at the University of Washington. She received her B.S. in Industrial Engineering from State University of New York at Buffalo, her M.S. in InterEngineering (Human Factors) and PhD in Civil and Environmental Engineering (Transportation) from the University of Washington. Dr. Boyle has 18 years of experience conducting research in transportation safety, quantifying driver behavior, analysis and design of traffic safety systems, and independent evaluations of new automotive technology. She has authored over 70 journal articles, conference proceedings, book chapters, and technical reports. She is the recipient of the National Science Foundation Career Award and an Associate Editor for the journal, Accident Analysis and Prevention.

Cynthia Chen

Ph.D.



Dr. Cynthia Chen is an Associate Professor at the Civil and Environmental Engineering Department of University of Washington

(UW). She received her PhD degree in Civil and Environmental Engineering (specialization: Transportation) from the University of California at Davis. Her research interests are travel behavior analysis, demand modeling, safety, and innovative survey techniques. Dr. Chen has published more than 30 papers in referred leading transportation and planning journals including Transportation Research Part A and Part B, Transportation, Urban Studies, Environment and Planning A, and Journal of Transport Geography etc. She chairs the Time Use and Activity Patterns subcommittee at TRB and is on the editorial board of Transportation.

Rachel He

Ph.D.



Dr. Rachel He is an Associate Professor at Department of Civil Engineering at Santa Clara University. She received her Ph.D. degree in

Civil and Environmental Engineering from University of Wisconsin – Madison in 2000. Her research interests include Intelligent Transportation Systems, transportation network modeling, traffic demand modeling, and traffic simulation. She is a member of Institute of Transportation Engineers, American Society for Engineering Education, American Society of Civil Engineers, Society of Women Engineers, and North American Chinese Institute of Engineering.

Xuegang (Jeff) Ban

Ph.D.



Dr. Xuegang (Jeff) Ban is an Assistant Professor at the Civil and Environmental Engineering Department of Rensselaer Polytechnic

Institute (RPI). He received his B.S. and M.S. in Automobile Engineering from Tsinghua University, and his M.S. in Computer Sciences and a PhD degree in Transportation Engineering from the University of Wisconsin-Madison. His research interests are in transportation network modeling and simulation, traffic operations, and Intelligent Transportation Systems (ITS). Dr. Ban has published nearly 25 papers in referred journals or as book chapters and nearly 20 papers in conference proceedings. He serves on the editorial board of the Journal of Intelligent Transportation Systems and is the Vice Chair of the ITS SIG under Transportation Science and Logistics (TSL) of INFORMS. He recently received the 2011 CAREER award from the National Science Foundation (NSF) of the U.S.

Yingyan Lou

Ph.D.



Dr. Yingyan Lou is an Assistant Professor in the Department of Civil, Construction, and Environmental Engineering at The University

of Alabama. She holds a B.S. and a B.A.Econ degree from Beijing (Peking) University, and received her M.S. and Ph.D. degrees in Civil and Coastal Engineering from the University of Florida at Gainesville. Dr. Lou's research interests include transportation planning, transportation systems modeling and optimization, and traffic flow theory and operations. Her research has led to 12 publications in peer-reviewed journals, 1 book chapter, and 10 peer-reviewed conference articles. In 2010, she received the Pikarsky Award for Outstanding Ph.D. Dissertations in Science and Technology from the Council of University Transportation Centers.

Doug Brodin



Doug Brodin is a Research Manager for the Washington State Department of

Transportation (WSDOT) Office of Research and Library Services. He has his B.A. in Economics from Seattle Pacific University and 30 years experience in state government. For the last 11 years he has directed the research efforts at WSDOT in the areas of ITS, Traffic and Congestion and Freight Mobility. He works closely with the University of Washington's transportation researchers and Transportation Center (TRAC), Smart Transportation Application and Research (STAR) Lab, and University Transportation Center (TransNow) to advance transportation research efforts in the state of Washington.

Xinyu (Jason) Cao

Ph.D.



Dr. Jason Cao is an Assistant Professor at Urban and Regional Planning program at Humphrey School of Public Affairs at the

University of Minnesota. He received his B.E. and M.E. in Civil Engineering from Tsinghua University, and his M.S. in Statistics and a Ph.D. degree in Civil Engineering from the University of California, Davis. He specializes in interactions between land use and transportation, travel behavior analysis, transportation policy, and transit. In 2006, he received the Wootan Award from the U.S. Council of University Transportation Centers for the best transportation policy/planning dissertation in the United States. Dr. Cao has published more than 20 papers in SCI/SSCI indexed journals. He is a member of two TRB committees: Travel Behavior and Values, and Telecommunications and Travel. He also serves as a member of Editorial Advisory Board of Transportation.

Dong Chen



Mr. Dong Chen currently serves as the District ITS Program Manager for the Florida Department of Transportation (FDOT) District

4 and has been with the Department for 8 years. Mr. Chen is responsible for overall district wide ITS planning, budgeting, design, deployment, operations and maintenance. Before joining FDOT, Mr. Chen worked in the telecommunications industry for 10 years as a Research and Development (R&D) Engineer and as a Regional Technical Support Manager in Asia Pacific region. Mr. Chen holds a B.S. degree in Computer Engineering from the University of Florida, a M.S. degree in Civil Engineering from Florida International University, and an MBA degree from Nova Southeastern University.

Edmond Chin Ping Chang | Kuo-Ann (James) Chiao

Ph.D., P.E.



Edmond Chin Ping Chang, Ph.D., P.E. is currently the President and Chief Executive Officer (CEO) of the EDCPC, Inc., a worldwide Intelligent Transportation

Systems (ITS) and Transportation Service Provider to support public agencies, financial institutions, system integrators, equipment vendors, and end users in the Emerging Economy in Asia, Euroasia, Africa, Latin America, and is very active working with UNDP, UNEP, WBG, ADB, and USA Government in China, Taiwan, Hong Kong, Thailand, Vietnam, etc. EDCPC started its independent consulting service on 01/01/2004, has over 685+ publication. During 1999-2003, Dr. Chang worked as the ITS Program Manager of the Energy Division (ED) at the Oak Ridge National Laboratory (ORNL), U.S. Department of Energy (USDOE), in Washington, D.C. and managing all the ORNL ITS programs funded by various Administrations under the U.S. Department of Transportation (USDOT), and many other agencies. During 1979-1999, Dr. Chang was a Research Engineer of the Texas Transportation Institute (TTI), Texas A&M University System and has been working very closely with all government levels (Central, Federal, State, County, City, etc).



Kuo-Ann Chiao, the new Regional Director for Asia of Citilabs, was the recipient of “AMPO 2006 National Award for Outstanding Individual

Leadership” and “USDOT/APA 2006 Transportation Planning Excellence Award”. Graduated from Cornell University in 1983, Mr. Chiao was the Director of Technical Group at New York Metropolitan Transportation Council that is the Metropolitan Planning Organization for downstate New York. Mr. Chiao was in charge of NYMTC’s efforts to provide data and web databases on transportation, socioeconomics, and demographics. He also managed NYMTC’s activities in the areas of Intelligent Transportation Systems and Geographic Information Systems and its modeling for socio-economic and demographic, transportation, land use, freight, and air quality.

Mr. Chiao is currently an Adjunct Professor at NYU-Poly, one of the twelve Foreign Experts for Shanghai Urban Construction and Communications Commission, and a member of the Advisory Board for the Mayor of Taipei City and the Cornell

Engineering Alumni Association Board of Directors. He has been also very actively involved in many professional organizations, including various committees of TRB, AASHTO, USDOT, AMPO, and ASTM. Mr. Chiao has been invited to many major universities, planning and transportation agencies, and research institutes, in the U.S. and Asia, in addition to many international transportation conferences to give presentations on strategic planning, urban transportation policy and planning process, the best practice travel demand models, cloud services and smart cities, and ITS integration strategy.

Jianming Ma

Ph.D., P.E.



Dr. Jianming Ma, holding a Ph.D. degree in Civil Engineering from the University of Texas at Austin, is currently a Transportation Engineer

for the Texas Department of Transportation (TxDOT). Prior to joining TxDOT, Dr. Ma worked as a Transportation Safety Engineer for the Traffic Services Administration of the District of Columbia Department of Transportation (DDOT). Dr. Ma's research areas include advanced statistical modeling, traffic safety, intelligent transportation systems (ITS), traffic engineering and transportation planning. He is a member of the Transportation Research Board (TRB) Committee on Safety Data, Analysis and Evaluation, ANB20. He is also a member on the Board of Directors of Chinese Overseas Transportation Association (COTA).

Xiaojian (Allen) Nie

Ph.D., PE.



Dr. Xiaojian (Allen) Nie is the Transport Modeling Leader of Hatch Mott MacDonald. He has 12 years of experience in developing

travel demand forecasting models for a variety of public agencies in Northern California. Dr. Nie also has particular expertise in microscopic traffic simulation, highway capacity analysis, signal timing and coordination. He is the co-developer of Synchro and SimTraffic 6, the industry's most popular signal timing software program. Allen holds a Ph.D. in Transportation Engineering from UC Davis, a Master's and a Bachelor degree in Civil Engineering from Tsinghua University, and is a registered Civil Engineer in the state of California. He authored and co-authored a good number of research papers and technical reports. Allen also co-chairs East Bay Traffic Engineers, an organization dedicated to technical advance and proficiency of east bay traffic engineers, California.

Steven T. Parker

Ph.D.



Dr. Steven Parker is the IT Program Manager at Traffic Operations and Safety (TOPS) Lab, at the University of Wisconsin-

Madison. He received his Ph.D. degree in Computer Science at University of Wisconsin-Madison prior to joining TOPS Lab in 2005. His research interests include Intelligent Transportation System (ITS), Traffic Control-Room Operations, Transportation Database and GIS system management. Since 2005, he has been the chief project manager on WisTransPortal, the central data hub for Wisconsin Transportation Data. He has also been the Principal Investigator of over 20 projects on ITS and traffic operations funded by Wisconsin Department of Transportation and Federal Highway Administration. He is a member of the Transportation Research Board, ITS America, Association of Computing Machinery (ACM), Institute for Electrical and Electronics Engineers (IEEE), Society for Industrial and Applied Mathematics (SIAM).

Xiaoliang Ma

Ph.D.



Dr. Xiaoliang Ma received his PhD degree in transportation and M.Sc. degree in applied mathematics both from Royal Institute of Technology (KTH), Sweden. He is currently a senior researcher (senior forskare) and becomes an assistant professor (forskningsassistent) since June 2008. Dr. Ma has research interests in driver behavior modeling and traffic simulation, data mining and AI for ITS, and modeling and control of traffic impacts. He is the main developer of KTH-TPMA microscopic simulation model and co-developer of a mesoscopic model, MEZZO. Before his KTH career, he was a technical consultant and programmer in IT, automation and construction industries and has been working with Volvo and STFI. He is still a part-time senior consultant in transportation and IT areas in Balanz ITS Future and is the owner of iTekn Solutions. His academic services include being a member of the editorial board of the IET Intelligent Transport System journal, an associate editor for the IEEE ITS 2010 and ICCTP

2011 conferences and a reviewer for several international journals such as IET ITS journal, IEEE Tran. On ITS, IEEE Tran. On VT, Transportmetrica, Journal of Advanced Transportation and so on.

Edward McCormack

Ph.D.



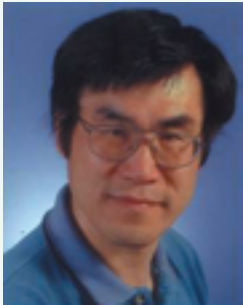
Dr. Edward McCormack is both a Research Assistant Professor in Civil and Environmental Engineering and a Principal Research Engineer with the Washington State Transportation Center (TRAC) at the University of Washington. He has over 25 years' experience researching transportation issues. His areas of interest include the use of technology to improve freight and passenger mobility and exploring the relationship between land use and freight transportation. Much of his recent research is quantifying the role that trucks play in our

transportation system. Dr. McCormack is currently leading an effort to use trucking industry GPS data to develop information that will support freight models and performance measures. Previously he completed a series of projects that evaluated a wide range of Intelligent Transportation Systems (ITS) installations. Prior to working at the university, he was a consultant running traffic and travel demand models. He received his master's degree in Civil Engineering and Ph.D. in Geography from the University of Washington.

COTA Contributed Session Speakers →

Ning Wu

Ph.D.



Dr. N. Wu graduated from Tongji University in Shanghai, China in Road and Bridge Construction. He received his Ph.D. degree from Ruhr University Bochum, Germany. He became a professor for Theory of Traffic Engineering at the Ruhr University Bochum in 2005. He teaches courses in traffic engineering and operation research. His research interests involved in traffic flow theory, capacity analysis, freeway operation, operation of road intersections, and traffic simulation are reflected in more than 100 journal articles and other publications. Dr. Wu co-authored the German Highway Capacity Manual (German HCM, HBS 2001, 2004, and 2011). He is also involved in the development of the US

Highway Capacity Manual (US HCM 2000, 2010). He is a Fellow of the German Road and Transportation Research Association (FGSV) and a number of several Research Committees. He belongs to many referee panels of journals such as "Transportation Research" and "Transportation Science".

Jian (John) Lu
Ph.D.



Dr. Jian John Lu is a full professor of the Transportation Group in the Department of Civil and Environmental Engineering at University of South Florida. His main research and teaching interests focus on Transportation Safety, Intelligent Transportation Systems, Traffic Control and Management, and Transportation Infrastructure Disaster Risk Assessment and Management. Dr. Lu got his Ph.D. degree from University of Texas at Austin in 1990. Then, he worked in New York State Department of Transportation as a research specialist and University of Alaska Fairbanks as an assistant professor between 1990 and 1995. In 1995, he joined the faculty in the Department of Civil and Environmental Engineering at University of South Florida and became tenured full professor in 2004. While he works as a professor in USA, he also spends his great efforts in developing transportation research programs in China. In 2000, Dr. Lu was awarded “Cheung Kong Scholar” Program Chair Professorship (Chang Jiang Scholar) and joined Southeast University in Nanjing, where he helped the College of Transportation to develop their transportation program and performed many research projects that were sponsored by national transportation agencies and province

transportation agencies. In 2009, he was given the opportunity to serve as a “Zhi-Yuan Chair Professor” in the Transportation Program in School of Naval Architecture, Ocean and Civil Engineering at Shanghai Jiao Tong University. In January 2010, Dr. Lu was awarded the “1000Plan” scholar by the central government of China. Dr. Lu has engaged in teaching and research in fields of transportation safety, transportation management and planning, intelligent transport systems, systems engineering, transportation disaster management, etc. for more than 25 years. He has completed over 100 projects funded by US federal and state governments as well as China transportation agencies at national and province levels. He has published 7 books and over 100 technical papers in high impact international journals. Dr. Lu is currently serving as associate editor (area editor in transportation safety) for international Journal of Transportation Safety and Security, editorial board member for international Journal of Advances in Transportation Studies, and editorial board member for international Journal of Applied Sciences.

Zong Tian

Ph.D., P.E..



Dr. Zong Tian is an Associate Professor and Director of the Center for Advanced

Transportation Education and Research (CATER) at the University of Nevada, Reno (UNR). He became a faculty at UNR in July 2004 after completing his Ph.D. degree at 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 members of two major TRB committees, the Highway Capacity and Quality of Service Committee and the Traffic Signal Systems Committee. He is the chair of the paper review committee for the Highway Capacity and Quality of Service Committee of TRB. His specialty areas include traffic signal systems, highway capacity, traffic safety, and integrated freeway-arterial system operations..

Fang (Clara) Fang

Ph.D.



Dr. Clara Fang is an Associate Professor at the University of Hartford where she teaches both

undergraduate and graduate courses, and conducts research in transport engineering. Fang holds a Ph.D. degree in transportation engineering from the Pennsylvania State University, two Master degrees in civil engineering from the University of British Columbia and the City University of Hong Kong, respectively, and a Bachelor degree in civil engineering from the Sichuan University, China. Her research interests include transportation system modelling and simulation, traffic operations, signal control, optimization and computational intelligence applications in transportation. She is the author or co-author of more than forty refereed Journals, conferences and reports. She is a member of ASCE, IEEE-ITS, ITE and several TRB Committees.

Fengxiang Qiao

Ph.D.



Dr. Fengxiang Qiao is a Tenured Associate Professor in the Department of Transportation Studies at Texas Southern University

(TSU), USA. He received his B.S. in Automatic Control, and M.S. in Mechanical Engineering, both from Southeast University (i.e., former Nanjing Institute of Technology), and his Ph.D. in Civil Engineering from The Hong Kong University of Science and Technology (HKUST). His research interests include Intelligent Traffic Simulation and Forecasting, Vehicle Emission Testing and Modeling, Driving Behavior Study, Traffic Signing and Placement. Dr. Qiao has published one book, three book chapters, nineteen papers in referred journals, sixteen research reports, and sixty-two full papers in peer reviewed conference proceedings. Dr. Qiao is the editor of The Open Transportation Journal, the member of nearly 20 international professional organizations and committees, the reviewer of many transportation journals, and the member of International Program Committees (IPC) of many international conferences.

Zhanping You

Ph.D., P.E.



Professor You received his Ph.D. degree in civil engineering from the University of Illinois at Urbana-Champaign.

Prior to his appointment at Michigan Tech, he served as an Assistant Professor at Texas A&M University – Kingsville. He served as director of Transportation Materials Research Center at Michigan Technological University. Professor You has published over 100 technical papers in journals, conference proceeding, and books. Sponsors of his research program include National Science Foundation (NSF), U.S. Environmental Protection Agency (U.S. EPA), Federal Highway Administration, Michigan Department of Transportation (MDOT), and Texas Department of Transportation (TxDOT). He serves in the Board of Directors for Chinese Overseas Transportation Association. He is also a member of the Board of Directors for the International Journal of Pavement Research and Technology. He has been involved in professional services for professional organizations including: ASCE, the Transportation Research Board (TRB), Association of Asphalt Paving

Technologists (AAPT), International Society of Asphalt Pavements (ISAP), American Association for the Advancement of Science (AAAS), and International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM). Professor You serves as an associate editor for the Journal of Materials in Civil Engineering. He is a member of ASCE and AAPT and serves in over 10 technical committees in various organizations. Professor You has reviewed technical papers for 18 journals. He was an editor of four ASCE Geotechnical and Engineering Mechanics Special Publication books. He is a lead guest editor for a special issue of Journal of Materials in Civil Engineering. In 2004 and 2005 he was also a recipient of the U.S. Department of Transportation's Dwight David Eisenhower Transportation Faculty Fellowship.

Mingming Lu

Ph.D.



Dr. Mingming Lu is an associate professor with the School of Energy, Environment, Biological and Medical Engineering

(the former Dept. of Civil and Environmental Engineering), Univ. of Cincinnati. She received her BS and MS from Tsinghua University, and her PhD from Georgia Institute of Technology in 2000, all in Environmental Engineering. She specializes in air quality and has worked on the characterization of diesel and biodiesel emissions, combustion processes, and physical/chemical characterization of nano composite materials. Her projects in transportation and air quality include the use of wireless sensors measure traffic emissions; the measurement of CO at representative urban settings, and the measurement of black carbon for air quality and climate change purposes. She has received funding from the NSF, NIOSH, EPA and various university initiatives.

Shie Shin Wu

Ph.D.



Dr. Shin Wu is the President of IES Consultants. He received his B.S. in Civil Engineering from National Taiwan University, and his MCE and PhD from North Carolina

State University His specialty are in traffic engineering, traffic simulation, highway design and pavement design and management. Dr. Wu's carrier spanned a wide range of highway engineering, included highway planning and design, pavement design and management, application software development, and value engineering. He has published numerous papers in journals and in conference proceedings.

Lei Zhang

Ph.D.



Dr. Lei Zhang is a Tenure-Track Assistant Professor in the Department of Civil and Environmental Engineering at the University of Maryland-

College Park (UMD). He received his B.S. in Civil Engineering from Tsinghua University, and his M.S. in Civil Engineering and Applied Economics and a Ph.D. degree in Transportation Engineering from the University of Minnesota. Dr. Zhang directs the Transportation Systems Research Lab at UMD, which employs interdisciplinary approaches to model the interdependencies between transportation, land use, and economic systems, analyzing the full impact of engineering and planning decisions to ensure efficient resource allocation and sustainable development in the broad domain of transportation. Dr. Zhang has published more than 80 peer-reviewed journal and conference papers on topics including transportation planning, transportation economics and policy, travel behavior, advanced travel demand modeling, and traffic operations. He has received external funding support from various Federal

and State government agencies and private foundations in the U.S., totaling \$4.3 million. Dr. Zhang is a Member of several Transportation Research Board (TRB) Committees (Transportation Economics, Travel Behavior and Values, and Travel Survey Methods) under the U.S. National Academy of Sciences. He recently served as the Chair of the Transportation Science and Logistics Cluster of the Institute for Operations Research and Management Sciences (INFORMS), and Chair of the U.S. Department of Transportation Expert Panel on Multimodal Passenger Travel Demand.

Yu Zhang

Ph.D.



Dr. Yu Zhang is an Assistant Professor at the Civil and Environmental Engineering Department of University of South Florida (USF). She received her

B.S. in Transportation Engineering from Southeast University in China, and her M.S. and Ph.D. in Transportation Engineering from the University of California Berkeley. Her research interests are in transportation network modeling and analysis, air transportation, transportation economics and sustainable transportation. Dr. Zhang has published 13 papers in referred journals and 16 papers in refereed conference proceedings. She is now the committee member of Transportation Research Board Committee of Airfield and Airspace Capacity and Delay (AV060) and Transportation Research Board Committee of Aviation Systems Planning (AV020). She is also serving as the Board Director of China Overseas Transportation Association (COTA). Dr. Zhang is the recipient of 2010 Fred Burggraf Award, Aviation, for excellence in transportation research by researchers 35 years of age or younger, presented by Transportation Research Board (TRB) of the National Academies.

Yao-Jan Wu

Ph.D.



Dr. Yao-Jan Wu is an Assistant Professor of Civil Engineering at Saint Louis University (SLU). Prior to that, he was a postdoctoral

research associate with the Center for Transportation Studies at the University of Virginia, investigating the impacts of climate changes on transportation infrastructure systems and methodologies for sustainable civil infrastructure development. During his Ph.D. studies at the University of Washington, he served as the lab manager of the Smart Transportation and Application Research Laboratory (STAR Lab), the President of the UW Institute of Traffic Engineers (ITE) Chapter and worked as an intern traffic engineer in the City of Bellevue and the City of Everett, WA. He was awarded ITE Washington Outstanding Graduate Student in Transportation in 2008, Guiding STAR Award in 2009, 2010 University Transportation Center Region X Outstanding Student of the Year and 2010 Michael Kyte Award. Currently, he serves as Transportation Research Board (TRB) official Young Member both in Highway Traffic Monitoring Committee (ABJ35)

and Urban Transportation Data and Information Systems (ABJ30). Dr. Wu's research interests highlight a strong connection between information technology (IT) and traditional transportation research. His research broadly covers four major fields: 1) traffic safety (e.g. accident modeling and analysis, and advanced safety vehicles), 2) intelligent transportation systems (e.g. development of advanced traffic detection technology, loop data quality control, and computer vision applications), 3) large-scale network analyses (e.g. online data management and analysis systems, and traveler behavior analysis) and 4) sustainable transportation systems (e.g. climate change impact analysis).

Mammen Daniel

P.E, MASCE



Mr. Daniel is the president and CEO of Daniel Consultants, Inc. (DCI), a multidisciplinary consulting civil and transportation engineering

firm. Over the last 30 years, Mr. Daniel has been involved in a number of engineering projects in the capacity of principal supervisor, manager, and designer. Areas of expertise cover transportation planning, ITS planning and development, incident management projects, evacuation planning, travel demand studies, design and implementation of traffic management systems. As Project Manager and Principal, Mr. Daniel manages several transportation planning and traffic operational studies for various clients such as Maryland Department of Transportation, DC Department of Transportation, Virginia Department of Transportation, and the Federal Highway Administration. Under his direction Daniel Consultants, Inc serves as the prime consultant to Maryland CHART-ITS planning and design projects that involve traveler information systems, regional coordination of ITS functions and District of Columbia on-call

transportation/ITS projects. He has served as advisory member to Governor of Maryland on Maryland Greenways commission and was the winner of Small Business Person of the Year 1998 from the US SBA.

Miguel Figliozi

Ph.D.



Dr. Figliozi joined Portland State University in August 2007. His previous academic appointment was at the University

of Sydney. Dr. Figliozi works in partnership with local, regional, state, and federal transportation agencies, organizations, and private companies. He is a member of the Transportation Research Board Network Modeling Committee, Transportation and Logistics Committee, and Intermodal Terminal Design Committee. Dr. Miguel Andres Figliozi main teaching and research areas are transportation and logistics systems modeling. His current research work deals with: Transit Bus

Fleet Management and Optimization Models; an Integrated Multimodal Transportation, Air Quality, and Livability Corridor Study; Modeling and Analysis of Commercial Electric Vehicle Fleets; Impact of Weather on Bicycle Ridership; Usage of GPS truck data to evaluate and develop freight corridor performance measures; Study of climate change impacts on transportation infrastructure; Green fleet replacement models; Bus "bunching" minimization in public transportation operations; Impact of congestion on vehicle routing; Development of algorithms for time-dependent-stochastic routing; Statewide freight modeling improvements; Development of volume-speed functions for traffic assignment models and impact of traffic flows on emissions

Qian Wang

Ph.D.



Dr. Qian Wang is an Assistant Professor in the Department of Civil, Structural and Environmental Engineering at University at Buffalo,

the State University of New York. She received her M.S. in Transportation Engineering from Tongji University in 2003 and Ph.D. degree in Transportation Engineering from Rensselaer Polytechnic Institute in 2008. Dr Wang's major research interests include transportation planning, freight system modeling, and transportation economics. Her current professional practices cover a wide spectrum of transportation fields, including travel demand modeling, behavioral choice modeling and congestion pricing. Her long-term career goal is to integrate economic and behavioral principles into transportation modeling and policy making, to maintain efficient, safe and sustainable transportation systems.

Xiao Qin

Ph.D., PE



Dr. Xiao Qin is an Assistant Professor in the Civil and Environmental Engineering Department at SDSU. He received his B.S. and M.S.

in the Transportation Engineering from Southeast University, and his PhD degree in the Transportation Engineering from the University of Connecticut. Dr. Qin's main research interests are traffic operations and safety, statistical modeling, GIS and GPS application and spatial data analysis, and sustainable transportation planning. Dr. Qin has published 28 papers in referred journals and 40 papers in conference proceedings. He is now the TRB committee member of Committee on Statistical Methods and Committee on Safety Data, Analysis and Evaluation. He is a licensed professional engineer (PE) in Arizona.

Zhijun (Tony) Qiu

Ph.D.



Dr. Qiu is an Assistant Professor in the Transportation Program at University of Alberta. He received his PhD degree from University

of Wisconsin Madison in 2007, and worked as a Post Doctoral Researcher in the California PATH Program at University of California Berkeley from 2008 to 2009. Dr. Qiu has founded the Intelligent Transportation System Research Lab at University of Alberta in 2009, and his research interest includes Intelligent Transportation System, Connected Vehicle / IntelliDrive, Active Traffic Management, Traffic simulation and modeling, Traffic operation and control. Dr. Qiu has published more than 50 papers in the international journals and academic conferences, and is the Co-Chair of the Transportation Specialty Conference in the 2012 Canadian Society of Civil Engineering Annual General Meeting.

Hamid Yaghoubi

Iran Top Researcher in 2010 (The First One from the Ministry of Roads and Transportation).

- A Reviewer for the Journal of Transportation Engineering, American Society of Civil Engineers (ASCE) (Five Papers).

- A Reviewer for the Journal of Vehicle System Dynamics, Taylor & Francis (One Paper).

- The Director of Iran Maglev Technology (IMT).

- Assistant Professor, Payame Noor University (PNU), Tehran, Iran.

- The Head of High-Speed Trains Dept., Railway Research Center, Iranian Railways.

- The Consultant of High-Speed Trains for Iranian Railways.

- The Secretary and a Member of the Technical Committee for Tehran-Mashhad High-Speed Railways and Maglev, Iran Ministry of Roads and Transportation & Iranian Railways

- A Consultant for Iranian Railways.

- The Member of Scientific and Organizing Committee and the Keynote Speaker for the 1st Int. Conf. on Railway Eng., High-Speed Railway, Heavy Haul Railway and Urban Rail Transit, China, August 20-21, 2010.

- The Member of the International Steering Committee of the 1st International Workshop on High Speed and Intercity Railway (IWHIR 2011), The Hong Kong Polytechnic University (PolyU), Shenzhen and Hong Kong, SAR, China, July 19-22, 2011.

- The Member of Technical Committee for the International Association of Management Science & Industrial Engineering (IAMSIE), China.

- Published 20 Papers, Written one Book, Done Several Projects and so on in the Field of Magnetically Levitated Trains (Maglev).

- B.S. in Civil Eng., and M.S. in Railway Eng. from Iran University of Science and Technology (IUST).

Reason Foundation Forum Speakers →

Samuel R. Staley

Ph.D.



Dr. Staley has directed Reason Foundation's policy research on urban and land use issues since 1997. He specializes in urban

economic development, urban planning, transportation policy and land use issues. His research has appeared in academic and professional publications such as *Transportation Research Part A*, the *Journal of the American Planning Association*, the *Journal of Urban Development and Planning*, *Housing Policy Debate*, and *Urban Land*. His books include *Mobility First: A New Vision for Transportation in a Globally Competitive 21st Century* (2008), *The Road More Traveled: Why the Congestion Crisis Matters More Than You Think*, and *What We Can Do About It* (2006), *Smarter Growth: Market-Based Strategies for Land-Use Planning in the 21st Century* (2001), and *Planning Rules and Urban Economic Performance: The Case of Hong Kong* (1994).

Adrian T. Moore

Ph.D.



Adrian T. Moore, Ph.D. leads Reason's policy implementation efforts and conducts his own research on topics such as privatization, government

and regulatory reform, air quality, transportation and urban growth, prisons and utilities. He regularly testifies before the U.S. Congress and advises federal, state and local officials on ways to streamline government and reduce costs. In 2008 and 2009, Moore served on Congress' National Surface Transportation Infrastructure Financing Commission. Mr. Moore is co-author of the book *Mobility First: A New Vision for Transportation in a Globally Competitive 21st Century* (Rowman & Littlefield, 2008) and co-author of *Curb Rights: A Foundation for Free Enterprise in Urban Transit*, published in 1997 by the Brookings Institution Press, as well as dozens of policy studies. His work has been published in the *Los Angeles Times*, *Boston Globe*, *Houston Chronicle*, *Atlanta Journal-Constitution*, *Orange County Register*, *The Independent Review*, *Economic Affairs*, *Public Policy and Management*, *Consumer Affairs*, and numerous other publications. In

2002, Moore was awarded a World Outsourcing Achievement Award by PricewaterhouseCoopers and Michael F. Corbett & Associates Ltd. for his work showing governments how to use public-private partnerships and the private sector to save taxpayer money and improve the efficiency of their agencies.

Zongzhi Li

Ph.D.



Dr. Zongzhi Li is an associate professor (with tenure) in the Department of Civil, Architectural and Environmental Engineering at Illinois Institute of Technology (IIT), Chicago, Illinois. He received MSCE, MSIE, and PhD (2003) from Purdue University, West Lafayette, Indiana. Dr Li's areas of expertise are in multimodal transportation infrastructure and dynamic traffic network mobility, safety, and security performance modelling; transportation asset management; and transportation network economics.

Dr. Li has led more than a dozen of research projects over US\$3.5 million funded by federal and state transportation agencies, the National Cooperative Highway Research

Program (NCHRP), and the private sector; he has published extensively with three books, two book chapters, and over twenty refereed journal papers. He is an editorial board member of American Society of Civil Engineers (ASCE) Journal of Infrastructure Systems and serves as the secretary of Transportation Research Board's (TRB) Transportation Asset Management Committee. He was recipient of the 1998 International Road Federation Fellowship, 2000 Charles V. Wootan Award by the U.S. Council of University Transportation Centers, 2011 ASCE Arthur M. Wellington Prize, and 2011 IIT Sigma Xi Award for Excellence in Research.



Southeast University