

Program at a Glance

Time	Sunday, Aug.14 th	Monday, Aug.15 th
Morning	<div>Registration 9:00AM - 12:00PM</div>	<div>Registration 7:30 - 10:30AM</div> <div>Opening Ceremony 8:30 - 9:30AM</div> <div>Coffee Break 9:30 - 10:00AM</div> <div>Plenary Session I 10:00AM - 12:00PM</div>
Noon		<div>Lunch</div>
Afternoon	<div>Registration 1:00 - 9:00PM</div> <div>COTA Education Workshop 3:00 - 5:00PM</div>	<div>Plenary Session II 1:30 - 3:10PM</div> <div>Coffee Break 3:10 - 3:30PM</div> <div>Dean Forum 2:00 - 5:30PM</div> <div>Invited Session I & II COTA Contributed Session I 3:30 - 5:30PM</div> <div>Technical Session I , II & III 3:30 - 5:30PM</div>
Evening	<div>VIP Welcome Dinner 6:00 - 8:00PM</div>	<div>Conference Reception 6:00 - 8:00PM</div>

Time	Tuesday, Aug.16 th	Wednesday, Aug.17 th
Morning	<div>Registration 7:30 - 10:30AM</div> <div>Plenary Session III 8:30 - 10:10AM</div> <div>Coffee Break 10:10 - 10:30AM</div> <div>Invited Session III & IV COTA Contributed Session II 10:30AM - 12:10PM</div> <div>Technical Session IV, V & VI 10:25AM - 12:10PM</div>	<div>2nd COTA-World Bank China Transport Forum 8:30AM - 12:00PM</div> <div>Invited Session VI COTA Contributed Session IV 8:30 - 10:10AM</div> <div>Technical Session VII, VIII & IX 8:30 - 10:15AM</div> <div>Coffee Break 10:10 - 10:30AM</div> <div>Plenary Session V 10:30AM - 12:10PM</div>
Noon	<div>Lunch</div>	<div>ICCTP Best Paper Award and Closing Ceremony & Farewell Lunch 12:10 - 2:30PM</div>
Afternoon	<div>Plenary Session IV 1:30 - 3:10PM</div> <div>Government Forum 1:30 - 5:30PM</div> <div>Coffee Break 3:10 - 3:30PM</div> <div>Invited Session V COTA Contributed Session III 3:30 - 5:30PM</div> <div>Reason Foundation Forum 3:30 - 5:30PM</div>	
Evening	<div>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) Chair: Bin Ran, Professor, Southeast University		1:30pm—3:10pm, Aug. 15, 2011 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	
<i>Coffee Break</i>		<i>3:10pm~3:30pm, Aug. 15, 2011</i>
Invited Session I: Towards Sustainable Transportation Systems Chair: Huaizhu (Oliver) Gao, Associate Professor, Cornell University		3:30pm—5:30pm, Aug. 15, 2011 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 Chair: Clara Fang, Associate Professor, University of Hartford		3:30pm—5:30pm, Aug.15, 2011 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 Chair: Zong Z. Tian, Associate Professor, University of Nevada, Reno		3:30pm—5:30pm, Aug.15, 2011 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) Chair: Wei Wang, Professor, Southeast University		2:00pm—5:30pm, Aug.15, 2011 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 Chair: Yingyan Lou, Assistant Professor, University of Alabama		3:30pm—5:30pm, Aug.15, 2011 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 Chair: Heng Wei, Associate Professor, University of Cincinnati		8:30am—10:10am, Aug. 16, 2011 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: Zhanping You, Associate Professor, Michigan Technological University		10:30am—12:10pm, Aug. 16, 2011 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 Chair: Zhong-Ren Peng, Professor, University of Florida		10:30am—12:10pm, Aug.16, 2011 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 Chair: Jianping Wu, Professor, Tsinghua University		10:30am—12:10pm, Aug.16, 2011 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**

Session Chair: Qian Wang, Assistant Professor, University at Buffalo, the State University of New York

10:25am—12:10pm, Aug.16, 2011

Scarlet Kafirily Hall (君子兰厅)

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

Session Chair: Tony Z. Qiu, Assistant Professor, University of Alberta

10:25am—12:10pm, Aug.16, 2011

Cordarum Hall (夜来香厅)

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>		<i>3:50pm~4:00pm, Aug.16, 2011</i>
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 Chair: Yafeng Yin, Associate Professor, University of Florida		1:30pm—3:10pm, Aug.16, 2011 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 Chair: Lei Zhang, Assistant Professor, University of Maryland		3:30pm—5:30pm, Aug.16, 2011 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

**Chair: Henry Liu, Associate Professor, Department of Civil Engineering,
University of Minnesota, Twin Cities**

**3:30pm—5:10pm, Aug.16, 2011
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

Moderator: Zongzhi Li, Associate Professor, Illinois Institute of Technology

**3:30pm~5:30pm, Aug.16, 2011
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)	
Coffee Break		10:50am~11:00am, Aug.17, 2011
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 Yinhai Wang, COTA President, and a World Bank Representative	

Morning, August 17th

Invited Session VI: Intelligent Transportation Systems Chair: Jianming Ma, Transportation Engineer IV, Texas Department of Transportation		8:30am—10:10am, Aug.17, 2011 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 Chair: Yu Zhang, Assistant Professor, University of South Florida		8:30am—10:10am, Aug.17, 2011 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	

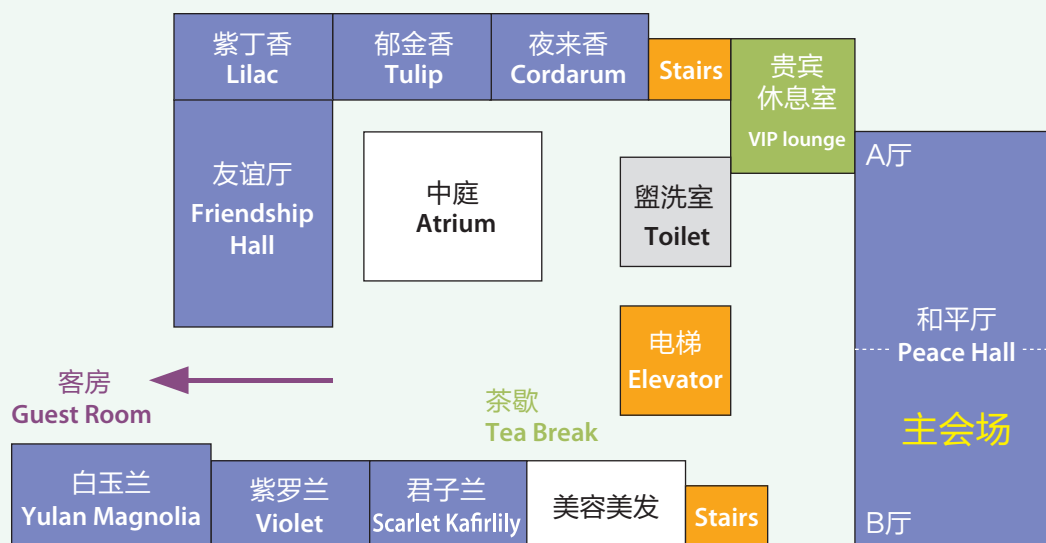
General Information

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

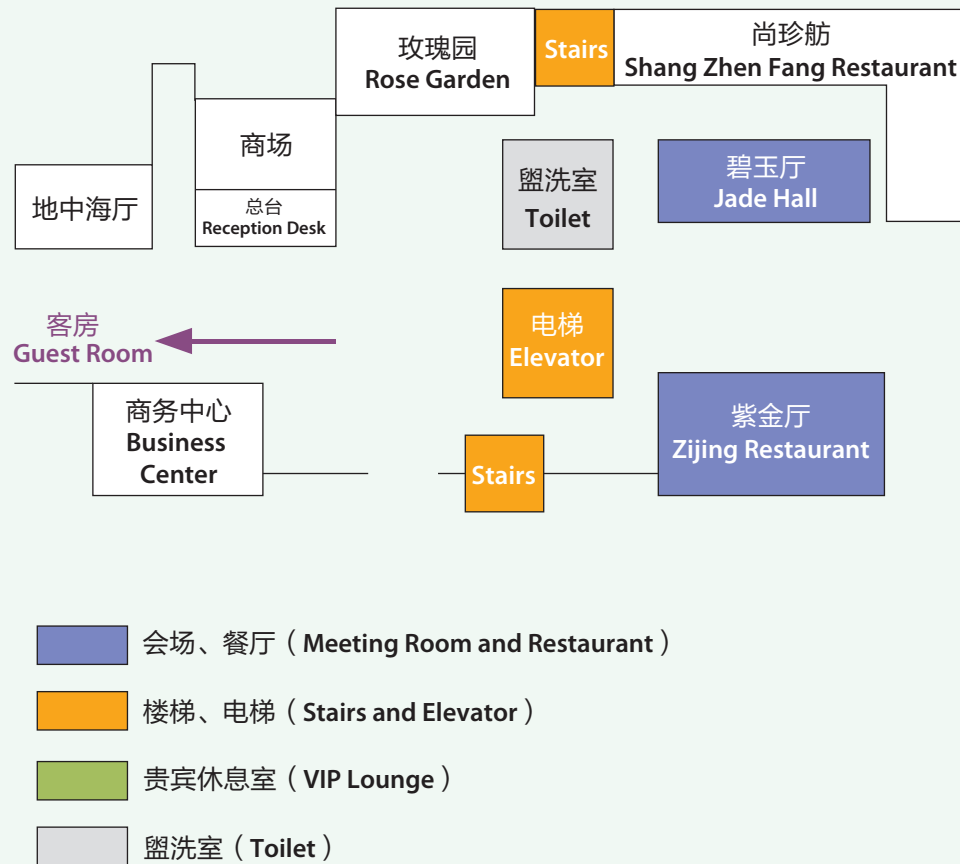
1st Floor Main Building Sketch Map

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 Zijing 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.