

**Efficient, Safe, and Green
Multimodal Transportation**

CICTP²⁰¹⁵

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高效、安全和绿色综合交通

Efficient, Safe and Green Multimodal Transportation

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Welcome Remarks

It is our great pleasure to welcome you all to the 15th COTA International Conference of Transportation Professionals (CICTP 2015) in Beijing, China. CICTP 2015 is jointly organized by the Chinese Overseas Transportation Association (COTA) and Beijing Jiaotong University. The CICTP series, formerly ICCTP (International Conference of Chinese Transportation Professionals), was established by COTA and is sponsored by the American Society of Civil Engineers (ASCE) and the National Natural Science Foundation of China (NSFC) and the Transportation Research Board (TRB) of the U.S. National Academies.

We are pleased to announce that CICTP 2015 received a large number of high-quality technical contributions; among the more than 900 submissions, a total of 368 full 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. Centering around the theme “Efficient, Safe and Green Multimodal Transportation,” the CICTP 2015 Proceedings papers address a wide range of topics. We hope the research and studies gathered at this conference will contribute to solving the future needs of a multimodal transportation system, and help to advance transportation efficiency, energy independence, economic vitality, and quality of life. CICTP 2015 will issue several awards, including Best Papers, Outstanding Area Editors, and Outstanding English Editing Chairs, to recognize the contributions of the authors, reviewers, and editors and their dedication to the conference and/or transportation research and practice in general. The authors of some selected papers also will be invited to submit to three journal special issues—*Transportation Research Part C: Emerging Technologies*, *Accident Analysis and Prevention*, and *Journal of Central South University*.

CICTP 2015, the largest transportation conference in China, has attracted more than 700 participants domestically and internationally from countries and regions all over the world, including mainland China, the United States, Hong Kong, Singapore, Australia, the United Kingdom, Germany, Korea, Belgium, Switzerland, and New Zealand. Nearly 40 conference sessions, including plenary, spotlight, honored invited, and technical, as well as special forums, are organized this year. The CICTP 2015 Executive and Organizing Committee has invited about 20 internationally-recognized, prestigious experts and scholars to deliver talks in keynote and plenary sessions. These invitees will share their insights, thoughts, visions, and experiences on a variety of current practices and state-of-the-art research topics. More than 40 other internationally-recognized researchers and engineers also are invited to present their recent research findings at COTA invited sessions.

Other special forums will focus on issues that are of great interest to audiences of various backgrounds, including Meeting with Editors-in-Chief, Panel Discussion on Education and Research Outlook of Traffic Information and Control Engineering, World Bank Transportation Development Forum, Dean Forum for Chinese University Transportation Schools, and International Forum of Career Development for Students and Young Professionals. The Best Paper awards and other professional awards will be granted to the authors of excellent papers or institutes/enterprises that have made outstanding contributions to the development of transportation systems in China.

On behalf of the CICTP 2015 organizing council, we would like to express our sincere gratitude to all authors and conference participants for their great contributions. We are grateful to all paper reviewers and English editors for their excellent efforts. Special thanks go to Beijing Jiaotong University and the members of COTA and its Board of Directors for their generous support and offering their invaluable time and expertise. Finally, we wish to thank all conference committee members, sponsors, invited speakers, session chairs, and staff for their hard work and great efforts that make the CICTP 2015 a great success!

The CICTP series has been an excellent platform for information exchange, experience-sharing, and professional networking over the past 10 years. We hope that you will enjoy the technical and social content of this year's conference and that you will find time to take pleasure in the sights of Beijing, the capital of China.

Conference Chairs

Bin Ning

Dr. Bin Ning, Professor and President, Beijing Jiaotong University, China

Yin

Dr. Yafeng Yin, President of COTA; Professor, University of Florida, USA

Nie Lei

Dr. Lei Nie, Professor and Dean, School of Traffic and Transportation, Beijing Jiaotong University, China

Tang Tao

Dr. Tao Tang, Professor and Director, State Key Lab of Railway Traffic Control and Safety, Beijing Jiaotong University, China

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Yan Xuedong

Dr. Xuedong Yan, Professor and Vice Dean, School of Traffic and Transportation, Beijing Jiaotong University, China

Yuan

Dr. Yu Zhang, Vice President of COTA; Associate Professor, University of South Florida, USA

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Professor and President,
Beijing Jiaotong
University, China



Dr. Yafeng Yin
President of COTA;
Professor, University
of Florida, USA



Dr. Lei Nie
Professor and Dean,
School of Traffic and
Transportation,
Beijing Jiaotong
University, China

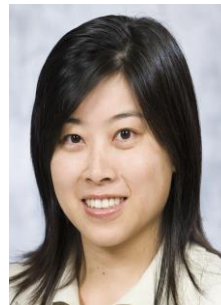


Dr. Tao Tang
Professor and Director,
State Key Lab of
Railway Traffic Control
and Safety, Beijing
Jiaotong University,
China

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Professor and Vice Dean,
School of Traffic and
Transportation,
Beijing Jiaotong
University, China



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

Organizers



Beijing Jiaotong University, founded in 1896, is a national key university under the direct administration of the Ministry of Education and now is jointly supported by the Ministry of Education, the China Railway Corporation (formerly known as the Ministry of Railways) and Beijing Municipal Government. BJTU is one of the first universities selected into the “National 211 Project” and the “985 Strength Discipline Innovation Platform” project, one of the first institutions authorized to confer Master’s and doctoral degrees in China. BJTU, as the leading organization, has established the Collaborative Innovation Centre for Rail Transit Safety, which is one of the first 14 collaborative centers approved by the Chinese government to enter the “National 2011 Projects”.

Beijing Jiaotong University has the longest history dedicating to transportation education and technology development in China. The university has been closely connected with railway industry since its establishment. Our faculty and students have made great contributions to the growth of China’s railways, from protecting railway rights in the 1900s to building railways after the foundation of New China; from the six railway-speed-raising campaigns, the construction of the Qinghai-Tibet Railway, and the application of heavy-haul trains on the Datong-Qinhuangdao Railway, to the development of high-speed railways and modern urban rail transit systems throughout the country in contemporary times.

While improving our unique strengths in such disciplines as traffic and transportation, communication and information, economics and management, BJTU has fostered a strong sense of collaboration and innovation. BJTU has become an important base to turn out talents, especially outstanding talents in information technology and urban rail transit, for the economic and social development of China. It has also remained an influential institution which can help to solve significant technological and policy-making problems appearing in the development of the country’s economy, society and modern transportation systems.

School of Traffic and Transportation

The School of Traffic and Transportation (STT) of BJTU is one of the most historical disciplines within the university. It has developed seven branches—the departments of Transportation Management Engineering, Traffic Engineering, Transportation Information Management Engineering, Urban Rail Transit, and Logistics Engineering, and the Institute of System Engineering & Control and Institute of System Science. Among them, the core team of the National Key Laboratory of Control and Safety of Railway Traffic contributes significantly to the overall research efforts of the school. Additionally, a series of scientific research and teaching practice base has been set up, including the E-commerce Laboratory, the Education Museum of Transportation Equipment, the Experiment Center of Traffic and Transportation, the China Research Center of Integrated Traffic, etc.

STT has 1 National Key Subject, Traffic and Transportation Planning and Management, and 3 post-doctoral scientific research stations—Traffic and Transportation Engineering, System Science and System Engineering. We provide 2 first-grade doctoral programs in Traffic and Transportation Engineering and System Science; 9 second-grade doctoral programs; 11 second-grade master programs; 3 master's programs in Engineering as Traffic and Transportation Engineering, Logistics Engineering, and Control Science and Engineering; and 3 bachelor's programs in Traffic and Transportation, Traffic Engineering, and E-commerce. Currently, there are more than 170 faculties in STT including 1 winner of the National Outstanding Youth Fund, 3 Changjiang Scholars, 1 youth Thousands of Plans, and 1 high-level overseas talents program expert.

With the development of a world-known high-level discipline as our objective, STT's faculty and students are determined to build an even brighter future for the discipline transportation and traffic by focusing on the direction of the discipline, rallying its contingent of scholars, building the scholastic base, ameliorating the academic climate, remaining united and practical as ever before, seeking the truth, and making great innovations.

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State Key Laboratory of Railway Traffic Control and Safety

The State Key Laboratory of Railway Traffic Control and Safety (RCS) was officially granted by the Ministry of Science and Technology in May, 2006. Currently, RCS is focusing on four research areas, including railway traffic flow analysis and control theory, railway transportation safety and transportation organization theory and technologies, railway transport operation control system analysis and integration, mobile communications theory for exclusive use of railway transportation and key technologies.

RCS is dedicated to long-term development and society needs of the state railway traffic. It conducts scientific research and high education according to the guiding ideology of “striving to make innovative research, breakthrough technologies and promote industrialization”. The research projects in the laboratory involve railway transportation organization, operation control, safety, information transmission, committed to creative applied basic theory and fundamental theoretical research on the railway traffic control and security science and technology. The ultimate aim of the laboratory is to build the world-class research base for technology development and fundamental research in the field of railway traffic, which improves the original and integrated innovation level and the talent education quality for the development of China's railway traffic control and security.

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Instructions for Presenters

1. Approximately 20/15 minutes are allocated to each speaker at plenary, spotlight, and technical sessions, including the time for Q&A.
2. Each presenter must report to her/his session chair at least 10 minutes before the session begins.
3. Each conference room is equipped with a computer. Presenters should carry their presentation (in PPT or PDF format) on a USB flash drive and upload it to the computer before the session begins.
4. We strongly recommend that presenters go through all their slides to ensure the presentation works well with the conference room equipment.
5. If a presenter elects to use her/his own laptop, s/he must inform the session chair and test the system before the session begins to ensure her/his own computer works well with the projector and other conference equipment.
6. Unless specified otherwise, speakers are expected to present in English.

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Instructions for Session Chairs

1. Session chairs should review the program prior to their sessions to get familiar with the presentations in their sessions. To ensure a smooth progress of the conference, session chairs are required to begin and finish their sessions on time.
2. Session chairs are expected to arrive in the session room at least 10 minutes before their session begins. Please collect the attendance information of the speakers.
3. Approximately 20/15 minutes are allocated for each speaker at plenary, spotlight, or technical sessions, including the time for Q&A.
4. Session chairs should closely monitor the progress to ensure their sessions begin and finish according to the schedule.

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Program at a Glance

Time	Friday, July 24, 2015	Saturday, July 25, 2015
Morning	<div>Registration 10:30 – noon</div>	<div>Registration 7:30 – noon</div> <div>Opening Ceremony 8:30 – 9:20</div> <div>Photographing 9:20 – 9:50</div> <div>Keynote Session 9:50 – noon</div>
Noon		<div>Conference Buffet</div>
Afternoon	<div>Registration 14:00 – 21:00</div> <div>International Forum of Career Development for Students and Young Professionals 14:00 – 17:00</div> <div>Dean Forum for Transportation Schools 14:00 – 18:20</div>	<div>Plenary Session I 14:00 – 16:10</div> <div>Technical Sessions I-A & II-A 14:00 – 16:10</div> <div>Coffee/Tea Break (16:10 – 16:30)</div> <div>Honored Invited Session 16:30 – 18:20</div> <div>Spotlight Session I 16:30 – 18:20</div> <div>Special Session 16:30 – 18:20</div> <div>Technical Sessions I-B, II-B & III 16:30 – 18:20</div>
Evening		

Time	Sunday, July 26, 2015	Monday, July 27, 2015
Morning	Registration 7:30 – noon	The 6th COTA-MOT-World Bank China Transport Forum 8:00 – noon
	Plenary Session II 8:00 – 10:10	Plenary Session IV 8:00 – 10:10
	Technical Sessions IV-A, V-A, VI-A, 08:00 – 10:10	Technical Sessions VIII, IX & X 08:00 – 10:10
	Coffee/Tea Break (10:10 – 10:30)	Coffee/Tea Break (10:10 – 10:30)
	Spotlight Session II & III 10:30 – noon	Spotlight Session VII & VIII 10:30 – noon
	Special Session 10:30 – noon	Technical Sessions XI & XII 10:30 – noon
	Technical Sessions IV-B, V-B, & VII-A 10:30 – noon	
Noon	Conference Buffet	CICTP Best Paper Award and Closing Ceremony & Farewell Lunch 12:10 – 14:30
Afternoon	Plenary Session III 14:00 – 16:10	
	Technical Sessions V-C, VI-B & VII-B 14:00 – 16:10	
	Coffee/Tea Break (16:10 – 16:30)	
	Spotlight Session IV, V & VI 16:30 – 18:20	
	Technical Sessions IV-C, VI-C & VII-C 16:30 – 18:20	
Evening	Conference Buffet 18:30 – 20:30	

Program Content

FRIDAY, JULY 24, 2015

10:30 –
21:00 **REGISTRATION**

——Lobby, Building 8 嘉宾楼, Beijing Friendship Hotel

14:00 –
17:00 **INTERNATIONAL FORUM OF CAREER DEVELOPMENT FOR STUDENTS AND YOUNG PROFESSIONALS**

——Conference Room 1, Building 8 嘉宾楼, Beijing Friendship Hotel

Moderator: Dr. Haizhong Wang, Assistant Professor, Oregon State University, USA

14:00 –
18:20 **DEAN FORUM FOR TRANSPORTATION SCHOOLS**

——Conference Room 5, Building 8 嘉宾楼, Beijing Friendship Hotel

Moderator: Prof. Xiaoning Zhu and Prof. Lei Nie, School of Traffic and Transportation, Beijing Jiaotong University, China

18:30 –
20:30 **VIP WELCOME DINNER**

——Friendship Palace, Grand Building 贵宾楼友谊宫餐厅, Beijing Friendship Hotel

SATURDAY, JULY 25, 2015

7:30 –
noon **REGISTRATION**

——Lobby, Building 8 嘉宾楼, Beijing Friendship Hotel

8:30 –
9:20 **OPENING CEREMONY**

——The Hall of Tianyou 天佑会堂, Beijing Jiaotong University

Moderator: Dr. Jun Liu, Professor and Vice President, Beijing Jiaotong University, China

9:20 –
9:50 **PHOTOGRAPHING**

9:50 –
noon **KEYNOTE SESSION: RETROSPECT AND PROSPECT**

——The Hall of Tianyou 天佑会堂, Beijing Jiaotong University

Chair: Dr. Yafeng Yin, Conference Chair; Professor, University of Florida, USA

Noon	CONFERENCE BUFFET ——Friendship Palace, Grand Building 贵宾楼友谊宫餐厅, Beijing Friendship Hotel
14:00 – 16:10	PLENARY SESSION I: SUSTAINABLE MULTIMODAL TRANSPORTATION ——Conference Room 1, Building 7 瑞宾楼, Beijing Friendship Hotel Chair: Dr. Yu Zhang, Conference Organizing Committee Chair, Associate Professor, University of South Florida, USA
14:00 – 16:10	TECHNICAL SESSION I-A: TRAFFIC SAFETY, SECURITY AND EMERGENCY RESPONSES ——Conference Room 1, Building 8 嘉宾楼, Beijing Friendship Hotel Chair: Dr. Xuesong Wang, Professor, Tongji University, China
14:00 – 16:10	TECHNICAL SESSION II-A: TRAFFIC AND DRIVER BEHAVIOR ——Conference Room 2, Building 8 嘉宾楼, Beijing Friendship Hotel Chair: Dr. Chaozhong Wu, Professor, Wuhan University of Technology, China
16:10 – 16:30	COFFEE/TEA BREAK
16:30 – 18:20	HONORED INVITED SESSION: LOOKING INTO TRANSPORTATION PROBLEMS BEYOND TRAFFIC ——Conference Room 1, Building 7 瑞宾楼, Beijing Friendship Hotel Chair: Dr. Heng Wei, Professor, University of Cincinnati, USA Dr. Yinhai Wang, Professor, University of Washington, USA
16:30 – 18:00	SPECIAL SESSION: PANEL DISCUSSION ON EDUCATION AND RESEARCH OUTLOOK OF TRAFFIC INFORMATION AND CONTROL ENGINEERING ——Conference Room 2, Building 7 瑞宾楼, Beijing Friendship Hotel Moderator: Dr. Hua Wang, Harbin Institute of Technology, China
16:30 – 18:20	SPOTLIGHT SESSION I: INTERMODAL TRANSPORTATION ——Conference Room 5, Building 8 嘉宾楼, Beijing Friendship Hotel Moderator: Dr. Guohui Zhang, Assistant Professor, University of New Mexico, USA

- 16:30 – **TECHNICAL SESSION I-B: TRAFFIC SAFETY, SECURITY AND EMERGENCY RESPONSES**
 18:20 —Conference Room 1, Building 8 嘉宾楼, Beijing Friendship Hotel
 Chair: Dr. Helai Huang, Professor, Central South University, China
- 16:30 – **TECHNICAL SESSION II-B: TRAFFIC AND DRIVER BEHAVIOR**
 18:20 —Conference Room 2, Building 8 嘉宾楼, Beijing Friendship Hotel
 Chair: Dr. Jian Lu, Professor, Southeast University, China
- 16:30 – **TECHNICAL SESSION III: RAIL OPERATIONS, MANAGEMENT AND CONTROL**
 18:20 —Conference Room 3, Building 8 嘉宾楼, Beijing Friendship Hotel
 Chair: Dr. Shiwei He, Professor, Beijing Jiaotong University, China
- 18:30 – **CONFERENCE BUFFET**
 20:30 —Friendship Palace, Grand Building 贵宾楼友谊宫餐厅, Beijing Friendship Hotel

SUNDAY, JULY 26, 2015

- 7:30 – **REGISTRATION**
 noon —Lobby, Building 8 嘉宾楼, Beijing Friendship Hotel
- 8:00 – **PLENARY SESSION II: FRONTIER IN TRAFFIC SAFETY AND ROADWAY AUTOMATION**
 10:10 —Conference Room 1, Building 7 瑞宾楼, Beijing Friendship Hotel
 Chair: Mr. Wei-bin Zhang, PATH, University of California Berkeley, USA
- 8:00 – **TECHNICAL SESSION IV-A: ROAD TRAFFIC OPERATIONS, MANAGEMENT, AND CONTROL**
 10:10 —Conference Room 1, Building 8 嘉宾楼, Beijing Friendship Hotel
 Chair: Dr. Hongyun Chen, Assistant Professor, Embry-Riddle Aeronautical University, USA
- 8:00 – **TECHNICAL SESSION V-A: TRANSPORTATION POLICY, PLANNING AND MODELING**
 10:10 —Conference Room 2, Building 8 嘉宾楼, Beijing Friendship Hotel
 Chair: Dr. Hui Zhao, Associate Professor, Beijing Jiaotong University, China

Program Content

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- 8:00 – **TECHNICAL SESSION VI-A: PUBLIC TRANSIT**
10:10 —Conference Room 5, Building 8 嘉宾楼, Beijing Friendship Hotel
Chair: Dr. Jun Bi, Professor, Beijing Jiaotong University, China
- 10:10 – **COFFEE/TEA BREAK**
10:30
- 10:30 – **SPOTLIGHT SESSION II: NETWORK MODELING AND OPTIMIZATION**
noon —Conference Room 1, Building 7 瑞宾楼, Beijing Friendship Hotel
Chair: Dr. Xuegang (Jeff) Ban, Associate Professor, Rensselaer Polytechnic Institute, USA
- 10:30 – **SPOTLIGHT SESSION III: TRANSPORTATION PLANNING AND URBAN DEVELOPMENT**
noon —Conference Room 2, Building 7 瑞宾楼, Beijing Friendship Hotel
Chair: Dr. Jason Cao, Associate Professor, University of Minnesota, USA
- 10:30 – **SPECIAL SESSION: MEET WITH EDITORS IN CHIEF**
noon —Conference Room 5, Building 8 嘉宾楼, Beijing Friendship Hotel
Moderator: Dr. Xiaokun (Cara) Wang, Rensselaer Polytechnic Institute, USA
- 10:30 – **TECHNICAL SESSION IV-B: ROAD TRAFFIC OPERATIONS, MANAGEMENT, AND**
12:00 **CONTROL**
—Conference Room 1, Building 8 嘉宾楼, Beijing Friendship Hotel
Chair: Dr. Jinxian Weng, Professor, Shanghai Maritime University, China
- 10:30 – **TECHNICAL SESSION V-B: TRANSPORTATION POLICY, PLANNING AND MODELING**
12:00 —Conference Room 2, Building 8 嘉宾楼, Beijing Friendship Hotel
Chair: Dr. Yao-Jan Wu, Assistant Professor, University of Arizona, USA
- 10:30 – **TECHNICAL SESSION VII-A: INTELLIGENT TRANSPORTATION SYSTEMS**
12:00 —Conference Room 3, Building 8 嘉宾楼, Beijing Friendship Hotel
Chair: Dr. Wei Guan, Professor, Beijing Jiaotong University, China
- Noon **CONFERENCE BUFFET**
—Friendship Palace, Grand Building 贵宾楼友谊宫餐厅, Beijing Friendship Hotel

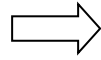
- 14:00 – **PLENARY SESSION III: TRANSPORTATION PLANNING AND PUBLIC TRANSPORT**
 16:10 —Conference Room 1, Building 7 瑞宾楼, Beijing Friendship Hotel
 Chair: Dr. Lei Zhang, Associate Professor, University of Maryland, USA
- 14:00 – **TECHNICAL SESSION V-C: TRANSPORTATION POLICY, PLANNING AND MODELING**
 16:10 —Conference Room 2, Building 8 嘉宾楼, Beijing Friendship Hotel
 Chair: Dr. Xumei Chen, Professor, Beijing Jiaotong University, China
- 14:00 – **TECHNICAL SESSION VI-B: PUBLIC TRANSIT**
 16:10 —Conference Room 5, Building 8 嘉宾楼, Beijing Friendship Hotel
 Chair: Dr. Xuesong Feng, Associate Professor, Beijing Jiaotong University, China
- 14:00 – **TECHNICAL SESSION VII-B: INTELLIGENT TRANSPORTATION SYSTEMS**
 16:10 —Conference Room 3, Building 8 嘉宾楼, Beijing Friendship Hotel
 Chair: Dr. Liang Gao, Associate Professor, Beijing Jiaotong University, China
- 16:10 – **COFFEE/TEA BREAK**
 16:30
- 16:30 – **SPOTLIGHT SESSION IV: TRAFFIC CONTROL WITH CONNECTED VEHICLES**
 18:20 —Conference Room 1, Building 7 瑞宾楼, Beijing Friendship Hotel
 Chair: Dr. Wanjing Ma, Professor, Tongji University, China
- 16:30 – **SPOTLIGHT SESSION V: INFRASTRUCTURE SYSTEMS**
 18:20 —Conference Room 2, Building 7 瑞宾楼, Beijing Friendship Hotel
 Chair: Dr. David S. Hurwitz, Assistant Professor, Oregon State University, USA
- 16:30 – **SPOTLIGHT SESSION VI: TRAFFIC SAFETY AND SYSTEM PLANNING**
 18:20 —Conference Room 1, Building 8 嘉宾楼, Beijing Friendship Hotel
 Chair: Dr. Jianming Ma, Transportation Engineer, Texas DOT, USA
- 16:30 – **TECHNICAL SESSION IV-C: ROAD TRAFFIC OPERATIONS, MANAGEMENT, AND CONTROL**
 18:20 —Conference Room 2, Building 8 嘉宾楼, Beijing Friendship Hotel
 Chair: Dr. Meng Li, Associate Professor, Tsinghua University, China

- 16:30 – **TECHNICAL SESSION VI-C: PUBLIC TRANSIT**
18:20 —Conference Room 5, Building 8 嘉宾楼, Beijing Friendship Hotel
Chair: Dr. Bin Jia, Professor, Beijing Jiaotong University, China
- 16:30 – **TECHNICAL SESSION VII-C: INTELLIGENT TRANSPORTATION SYSTEMS**
18:20 —Conference Room 3, Building 8 嘉宾楼, Beijing Friendship Hotel
Chair: Dr. Wei Chong, Associate Professor, Beijing Jiaotong University, China
- 18:30 – **CONFERENCE BUFFET**
20:30 —Friendship Palace, Grand Building 贵宾楼友谊宫餐厅, Beijing Friendship Hotel

MONDAY, JULY 27, 2015

- 8:00 – **PLENARY SESSION IV: SOLUTIONS FOR TRAFFIC CONGESTION**
10:10 —Conference Room 1, Building 8 嘉宾楼, Beijing Friendship Hotel
Chair: Dr. Henry Liu, Professor, University of Michigan, USA
- 8:30 – **TECHNICAL SESSION VIII: LOGISTICS AND FREIGHT TRANSPORTATION**
10:10 —Conference Room 2, Building 8 嘉宾楼, Beijing Friendship Hotel
Chair: Dr. Xiaodong Zhang, Associate Professor, Beijing Jiaotong University, China
- 8:00 – **TECHNICAL SESSION IX: PAVEMENT AND MATERIALS ENGINEERING, AND
HIGHWAY CONSTRUCTION AND MAINTENANCE**
10:10 —Conference Room 3, Building 8 嘉宾楼, Beijing Friendship Hotel
Chair: Dr. Ping Yi, Professor, University of Akron, USA
- 8:00 – **TECHNICAL SESSION X: HIGH-SPEED RAIL SAFETY**
10:10 —Conference Room 5, Building 8 嘉宾楼, Beijing Friendship Hotel
Chair: Dr. Yong Qin, Professor, Beijing Jiaotong University, China
- 10:10 – **COFFEE/TEA BREAK**
10:30
- 10:30 – **SPOTLIGHT SESSION VII: V2I AND V2V**
noon —Conference Room 1, Building 8 嘉宾楼, Beijing Friendship Hotel
Chair: Dr. Yingyan Lou, Assistant Professor, Arizona State University, USA

- 10:30 – noon **SPOTLIGHT SESSION VIII: SMART GROWTH**
——Conference Room 5, Building 8 嘉宾楼, Beijing Friendship Hotel
Chair: Mr. Kyle Liang, Montgomery Co. MD, USA
- 10:30 – noon **TECHNICAL SESSION XI: AVIATION, MARINE AND WATER TRANSPORTATION**
——Conference Room 2, Building 8 嘉宾楼, Beijing Friendship Hotel
Chair: Dr. Zhiyuan Shen, Associate Professor, Nanjing University of Aeronautics and Astronautics, China
- 10:30 – noon **TECHNICAL SESSION XII: TRANSPORTATION ENERGY, ENVIRONMENT AND SUSTAINABILITY**
——Conference Room 3, Building 8 嘉宾楼, Beijing Friendship Hotel
Chair: Dr. Guohua Song, Associate Professor, Beijing Jiaotong University, China
- 8:00 – 12:00 **THE 6TH COTA-MOT-WORLD BANK CHINA TRANSPORT FORUM**
——Conference Room 1, Building 7 瑞宾楼, Beijing Friendship Hotel
- 12:10 – 14:30 **CICTP BEST PAPER AWARD AND CLOSING CEREMONY & FAREWELL LUNCH**
——Friendship Palace, Grand Building 贵宾楼友谊宫餐厅, Beijing Friendship Hotel
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Program

Friday, July 24

International Forum of Career Development for Students and Young Professionals

Moderator: Dr. Haizhong Wang, Assistant Professor, Oregon State University, USA

14:00 – 17:00

Conference Room 1

Building 8 嘉宾楼

Beijing Friendship Hotel

This forum aims to share experiences of research, teaching, and career development of young professionals. The invited speakers are young professors from U.S. and Chinese universities who had overseas studying and working experiences. In this year's forum, the presenters will discuss how they made efforts to integrate research and education, to develop research groups, to improve technical writing and participate in international professional organization, and to conduct international collaborative research and education.

14:00 – 14:10	Welcome and Opening Remarks Dr. Xuedong Yan, Professor and Vice Dean, School of Traffic & Transportation, Beijing Jiaotong University, China
14:10 – 14:30	Dr. Jason Cao, Associate Professor, University of Minnesota, USA
14:30 – 14:50	Dr. Ning Wu, Professor, Ruhr University Bochum, Germany
14:50 – 15:10	Dr. Qiang Meng, Associate Professor, National University of Singapore, Singapore
15:10 – 15:30	Dr. Xuesong Wang, Professor, Tongji University, China
15:30 – 15:50	Tea/Coffee Break
15:50 – 16:10	Dr. Ziqi Song, Assistant Professor, Utah State University, USA
16:10 – 16:30	Dr. Sean Qian, Assistant Professor, Carnegie Mellon University, USA
16:30 – 17:00	Panel Discussion and Q&A

Dean Forum for Transportation Schools		14:00 – 18:20
Moderator: Prof. Xiaoning Zhu and Prof. Lei Nie, School of Traffic and Transportation, Beijing Jiaotong University, China		Conference Room 5 Building 8 嘉宾楼 Beijing Friendship Hotel
14:00 – 14:10	Welcome and Opening Remarks	
14:10 – 16:00	北京工业大学 —— 城市交通学院 北京航空航天大学 —— 交通科学与工程学院 长安大学 —— 公路学院 大连理工大学 —— 交通学院 东南大学 —— 交通学院 兰州交通大学 —— 交通运输学院 石家庄铁道大学 —— 交通运输学院 同济大学 —— 交通运输工程学院 武汉理工大学 —— ITS 重点实验室 西南交通大学 —— 交通运输与物流学院 中国民航大学 —— 空管学院 中南大学 —— 交通运输工程学院	
16:00 – 16:20	Tea/Coffee Break and Photographing	
16:20 – 18:00	北京理工大学 —— 交通系 长沙理工大学 —— 交通运输工程学院 重庆交通大学 —— 交通运输学院 大连海事大学 —— 交通运输管理学院 大连交通大学 —— 交通运输工程学院 东北林业大学 —— 交通学院 哈尔滨工业大学 —— 交通科学与工程学院 河北工业大学 —— 土木工程学院 华东交通大学 —— 轨道交通学院 华南理工大学 —— 土木与交通学院 江苏大学 —— 汽车与交通工程学院 吉林大学 —— 交通学院 昆明理工大学 —— 交通工程学院 南京航空航天大学 —— 民航学院 中国公安大学 —— 交通管理工程系	
18:00 – 18:20	Panel Discussion	

Saturday, July 25

Opening Ceremony

8:30 – 9:20

**Moderator: Dr. Jun Liu, Professor and Vice President,
Beijing Jiaotong University, China**

**The Hall of Tianyou 天佑会堂
Beijing Jiaotong University**

Welcome Remarks

8:30 – 8:40	Mr. Guoyong Cao, Chairman of the University Council, Beijing Jiaotong University, China
8:40 – 8:50	Dr. Yafeng Yin, President of COTA; Professor, University of Florida, USA

Conference Address

8:50 – 8:55	Mr. Yuhe Cai, President, China Communications News, China
8:55 – 9:00	Dr. Xiongbing Mou, Director, Office for International Cooperation Mechanism, National Development & Reform Commission, China
9:00 – 9:05	Dr. Mark Hansen, Professor, University of California, Berkeley, USA
9:05 – 9:10	Dr. Essam Radwan, Professor, University of Central Florida, USA
9:10 – 9:20	COTA Life Time Achievement Award to Prof. Guowu Zhang

Photographing

9:20 – 9:50

Keynote Session: Retrospect and Prospect

9:50 – noon

**Chair: Dr. Yafeng Yin, Conference Chair, Professor, University of Florida,
USA**

**The Hall of Tianyou 天佑会堂
Beijing Jiaotong University**

9:50 – 10:20	Toward a Connected and Autonomous Transportation System <i>Dr. C. Michael Walton, Member of the U.S. National Academy of Engineering, Professor at the University of Texas at Austin, USA</i>
10:20 – 10:50	Introduction about Chinese Railway Development <i>Dr. Huawu He, Chief Engineer of China Railway Corporation, Member of Chinese National Academy of Engineering, China</i>
10:50 – 11:20	State-of-the Art Traffic Safety Studies at the Macroscopic Level <i>Dr. Mohamed Abdel-Aty, Professor, University of Central Florida, USA</i>
11:20 – 11:50	Key Innovation Plans of Ministry of Education for Universities in the “Thirteen Five” -- Planning for Development of Transportation Field <i>Dr. Wei Wang, Professor, Southeast University, China</i>

Saturday, July 25

Plenary Session I: Sustainable Multimodal Transportation

14:00 – 16:10

Chair: Dr. Yu Zhang, Conference Organizing Committee Chair, Associate Professor, University of South Florida, USA

**Conference Room 1
Building 7 瑞宾楼**

Beijing Friendship Hotel

14:00 – 14:20	Risk Management for Urban Transportation <i>Dr. Jian (John) Lu, Dean and Professor, Tongji University, China</i>
14:20 – 14:40	The Transportation Experience: From Steamboats to Streetcars <i>Dr. David Levinson, Professor, University of Minnesota, USA</i>
14:40 – 15:00	Multi-modal, door-to-door transportation: facing the unexpected <i>Dr. Eric Feron, Professor, Georgia Tech, USA</i>
15:00 – 15:20	Airline Competition and Market Frequency: A Comparison of the S-curve and Schedule Delay Models <i>Dr. Mark Hansen, Professor, University of California Berkeley, USA</i>
15:20 – 15:40	Sustainable Transportation Systems <i>Dr. Essam Radwan, Professor, University of Central Florida, USA</i>
15:40 – 16:10	Q&A
Coffee/Tea Break	
16:10 – 16:30	

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Technical Session I-A: Traffic Safety, Security and Emergency Responses

14:00 – 16:10

Chair: Dr. Xuesong Wang, Professor, Tongji University, China

**Conference Room 1
Building 8 嘉宾楼**

Beijing Friendship Hotel

14:00 – 14:15	Classification of Risk Level in Urban Transit Emergency Events <i>Meixia Yang, Beijing Jiaotong University, China</i>
14:15 – 14:30	Study on Heterogeneous Pedestrian Dynamics with Improved Social Force Model <i>Haining Yu, Kunming University of Science and Technology, China</i>
14:30 – 14:45	Optimization of Lane Use and Signal Timings for Isolated Signalized Intersections with Variable Lanes <i>Xia Zhao, Beijing University of Technology, China</i>
14:45 – 15:00	Modeling Traffic Accident Frequency on Freeway using Random Effect Negative Binomial Model <i>Zhuanglin Ma, Chang'an University, China</i>
15:00 – 15:15	Review of the history of Traffic Safety Research: Past achievements and future challenges <i>Qiang Liu, Hefei University of Technology, China</i>
15:15 – 15:30	Safety Margin-Based Analysis on Road Superelevation Rate Selection <i>Zhaojun Zhang, Southeast University, China</i>
15:30 – 16:10	Q&A

Saturday, July 25

Technical Session II-A: Traffic and driver behavior

Chair: Dr. Chaozhong Wu, Professor, Wuhan University of Technology

14:00 – 16:10

Conference Room 2

Building 8 嘉宾楼

Beijing Friendship Hotel

14:00 – 14:15	Study Based on Structural Equation Model on the Relevance of Urban Elderly Travel Behavior Characteristics: A Case Study of Kunming <i>Wen Han, Kunming University of Science and Technology, China</i>
14:15 – 14:30	Lane changing execution modeling based on car following theory <i>Hao Wang, Southeast University, China</i>
14:30 – 14:45	Exploring drivers' route choice behaviors in urban road network by data mining <i>Ya Chan, Sun Yat-sen University, China</i>
14:45 – 15:00	Impact Analysis of Personal Attributes on Estimating the Value of Travel Time Savings <i>Rui Zhang, Beijing Jiaotong University, China</i>
15:00 – 15:15	Modeling of stop or run behaviors at urban signalized intersections in Beijing <i>Kaili Yin, North China University of Technology, China</i>
15:15 – 15:30	Driving Comfort Evaluation of Urban Road from Driver's Visual Perception <i>Bo Yu, Tongji University, China</i>
15:30 – 15:45	A recognition method of mental workload of drivers based on spectral characteristics of EEG <i>Zizheng Guo, Southwest Jiaotong University, China</i>
15:45 – 16:10	Q&A

Saturday, July 25

Special Session: Panel Discussion on Education and Research Outlook of Traffic Information and Control Engineering (Language: Chinese)

Moderator: Dr. Hua Wang, Harbin Institute of Technology, China

16:30 – 18:20

Conference Room 2

Building 7 瑞宾楼

Beijing Friendship Hotel

The purpose of this panel discussion is to share research and educational experience, envision potential interdisciplinary development, and strengthen collaborations on graduate student advising in Traffic Information and Control Engineering. The invited panelists are senior professors from the prestigious universities in the U.S. and China, who are highly reputed in education, research, and professional leadership. Particularly, this panel discussion will highlight the information technology-oriented discipline growth, multi-disciplinary collaboration, and strategic development plans.

	Welcome and Opening Remarks <i>Prof. Yafeng Yin, University of Florida, USA</i>
Panelist	Prof. Xiaoguang Yang, Tongji University, China
Panelist	Prof. Jianmin Xu, South China University of Technology, China
Panelist	Prof. Michael Zhang, University of California, USA
Panelist	Prof. Ping Yi, University of Akron, USA
Panelist	Prof. Heng Wei, University of Cincinnati, USA
Panelist	Prof. Yu Zhang, University of South Florida, USA
Panelist	Prof. & Department Chair Wanjing Ma, Tongji University, China
Panelist	Prof. & Department Chair Shuguang Li, Chang'an University, China
Panelist	Prof. & Department Chair Xiaofeng Chen, Northwestern Polytechnical University, China
Panelist	Prof. & Department Chair Yangzhou Chen, Beijing University of Technology, China
Panelist	Prof. Tianmin Deng, Chongqing Jiaotong University, China
Panelist	Prof. & Department Chair Xiaoming Liu, North China University of Technology, China
Panelist	Prof. & Department Chair Lin Zhang, North China University of science and technology, China
Panelist	Department Chair Ming Wei, Nantong University, China
Panelist	Prof. Renwu Zhang, Panzhihua University, China

Saturday, July 25

Honored Invited Session: Looking into Transportation Problems beyond Traffic

16:30 – 18:20

Conference Room 1

Building 7 瑞宾楼

Beijing Friendship Hotel

Moderator: Dr. Heng Wei, Professor, University of Cincinnati, USA

Dr. Yinhai Wang, Professor, University of Washington, USA

16:30 – 16:45	Research on the Evolution of Chinese Urban Road Traffic System and its Design Issues <i>Dr. Xiaoguang Yang, Professor and Director of Intelligent Transportation Systems Research Center at Tongji University, China</i>
16:45 – 17:00	Data-Driven Transportation Decision Making in the Smart Cities Context <i>Dr. Yinhai Wang, Professor of University of Washington, USA</i>
17:00 – 17:15	OpenITS and Next Generation of Intelligent Transportation Systems <i>Dr. Zhi Yu, Professor of Sun-Yat Sen University, China</i>
17:15 – 17:30	Planning Design and Construction Experience of New Generation of Urban Transportation Information Center: Shenzhen Example <i>Dr. Zhichao Guan, Shenzhen Transportation Comprehensive Management Center, China</i>
17:30 – 17:45	Explore the Laws of Transportation <i>Dr. Hongzhi Guan, Professor of Beijing University of Technology, China</i>
17:45 – 18:00	Data-driven Transportation Research on Chinese Major Cities <i>Dr. Meng Li, Associate Professor of Tsinghua University, China</i>
18:00 – 18:20	Q&A

Spotlight Session I: Intermodal Transportation

16:30 – 18:20

Conference Room 5

Building 8 嘉宾楼

Beijing Friendship Hotel

Chair: Dr. Guohui Zhang, Assistant Professor, University of New Mexico, USA

16:30 – 16:50	A Study of Intermodal Transportation Network Design with Emission Incentives and Mode Transfer Costs <i>Dr. Lihui Bai, Assistant Professor, University of Louisville, USA</i>
16:50 – 17:10	Risk Analysis of Rail Transport of Hazardous Materials <i>Dr. Xiang Liu, Assistant Professor, Rutgers University, USA</i>
17:10 – 17:30	Integrated Planning of Park-and-Ride Facility and Transit Service <i>Dr. Ziqi Song, Assistant Professor, Utah State University, USA</i>
17:30 – 17:50	Carriers' Capability of Cost Passage in Response to Toll Increases: An Empirical Analysis of Freight Agents' Relative Market Power <i>Dr. Xiaokun (Cara) Wang, Rensselaer Polytechnic Institute (RPI), USA</i>
17:50 – 18:10	Liner Shipping Network Optimization <i>Dr. Meng Qiang, Associate Professor, National University of Singapore, Singapore</i>
18:10 – 18:20	Q&A

Technical Session I-B: Traffic Safety, Security and Emergency Responses		16:30 – 18:20
Chair: Dr. Helai Huang, Professor, Central South University, China		Conference Room 1
		Building 8 嘉宾楼
		Beijing Friendship Hotel
16:30 – 16:45	A Calculation Model of Traffic Conflict Probability of Right-turn Vehicles and Pedestrians of No Right Turn Phase Intersections <i>Guishan Tan, Tongji University, China</i>	
16:45 – 17:00	Research on the Relationship between Speed Limits and Operating Speed on Straight Roads of Ordinary Provincial Arterial Highway <i>Ying Zhang, Chang'an University, China</i>	
17:00 – 17:15	Beijing Subway Network Connectivity Reliability Analysis Based on Complex Network <i>Yanan Zhang, Beijing University of Technology, China</i>	
17:15 – 17:30	A New Method to Determine Node Importance of Urban Traffic Network <i>Li Zhu, Jiangsu Transportation Institute, China</i>	
17:30 – 17:45	Variable Speed Limit on Circular Curved Road Sections under Various Weather Conditions <i>Jiu-ding Yang, Hefei University of Technology, China</i>	
17:45 – 18:20	Q&A	

Saturday, July 25

Technical Session II-B: Traffic and driver behavior

Chair: Dr. Jian Lu, Professor, Southeast University, China

16:30 – 18:20

Conference Room 2

Building 8 嘉宾楼

Beijing Friendship Hotel

16:30 – 16:45	Parameter Calibration in Cumulative Prospect Theory for Travelers' Route Choice Behavior <i>Xiaofeng Pan, Dalian University of Technology, China</i>
16:45 – 17:00	Driving Simulator Test of Variable Message Sign and Audio Warning Information at Highway-Rail Grade Crossings <i>Jingsi Yang, Beijing Jiaotong University, China</i>
17:00 – 17:15	Analyzing behavior of cruising for on-street parking under the influence of economic leverage <i>Hongwei Guo, Beijing Institute of Technology, China</i>
17:15 – 17:30	A Novel Set of Driving Style Risk Evaluation Index System for UBI Based Differentiated Commercial Vehicle Insurance in China <i>Wei Nai, Tongji University, China</i>
17:30 – 17:45	Lane Changing Interaction Behavior and Model <i>Wenjiao Chen, Tsingdao Technological University, China</i>
17:45 – 18:00	Evaluation of Keep-Right-Except-Pass Rule using Cellular Automata Model <i>Jiazheng Zhu, Beijing Jiaotong University, China</i>
18:00 – 18:20	Q&A

Technical Session III: Rail Operations, Management and Control		16:30 – 18:20
Chair: Dr. Shiwei He, Professor, Beijing Jiaotong University, China		Conference Room 3
		Building 8 嘉宾楼
		Beijing Friendship Hotel
16:30 – 16:45	A Method for Optimizing the Last Train Timetable in Urban Rail Transit Based on Auxiliary Decision Support <i>Qu Zhen, Tsinghua University, China</i>	
16:45 – 17:00	Study of fault diagnosis for electronic component of maglev train based on modified D-S evidence theory <i>Chunhong Xiong, Tongji University, China</i>	
17:00 – 17:15	Urban Rail Transit Pricing Strategies for Mitigating Traffic Congestion: A Case Study of Ningbo <i>Ming Yang, Ningbo University of technology, China</i>	
17:15 – 17:30	Simulation and Analysis on Stress and Deformation of the Fixed Bolt in Shear Hinge of Floating Slab Track in Urban Rail Transit <i>Junnan Jiang, Tongji University, China</i>	
17:30 – 17:45	The Study and Implementation on Rail Profile Alignment Algorithm Based on 3D Scanning Data <i>Miao Yu, Tongji University, China</i>	
17:45 – 18:20	Q&A	

Sunday, July 26

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Plenary Session II: Frontier in Traffic Safety and Roadway Automation **8:00 – 10:10**
Conference Room 1
Building 7 瑞宾楼
Beijing Friendship Hotel
Chair: Mr. Wei-bin Zhang, PATH, University of California Berkeley, USA

8:00 – 8:20	A simulation study of the effects of alcohol on attentional driving performance in a Chinese population <i>Dr. Sze Chun Wong, Chair Professor, The University of Hong Kong, China</i>
8:20 – 8:40	Improved Warning and Control Assistance Information Embedded in Basic Safety Messages Transmitted between Connected Vehicles <i>Dr. Asad J. Khattak, Professor, The University of Tennessee, USA</i>
8:40 – 9:00	Deployment Experiences of Jiangsu Intelligent Highway: The National Showcase in China <i>Dr. Bin Ran, Professor, University of Wisconsin-Madison, USA</i>
9:00 – 9:20	The Future of Roadway Automation <i>Mr. Wei-bin Zhang, PATH, University of California Berkeley, USA</i>
9:20 – 9:40	Joint Traffic Routing and Signal Control in a Connected Vehicle Environment <i>Dr. Michael Zhang, Professor, University of California Davis, USA, Tongji University, China</i>
9:40 – 10:10	Q&A

Coffee Break **10:10 – 10:30**

Technical Session IV-A: Road Traffic Operations, Management, and Control **8:00 – 10:10**
Conference Room 1
Building 8 嘉宾楼
Beijing Friendship Hotel
Chair: Hongyun Chen, Assistant Professor, Embry-Riddle Aeronautical University, USA

8:00 – 8:15	Developing surrogate measure for estimating freeway segment travel times along detours during the roadway closures <i>Seungmo Kang, Korea University, Korea</i>
8:15 – 8:30	A Traffic Signal Control Algorithm for Oversaturated Isolated Intersection based on Video Detection Data <i>Yiming Bie, Harbin Institute of Technology, China</i>
8:30 – 8:45	Research on Speed-Density of Urban Expressway under Rainy Conditions <i>Yi Zhao, Tongji University, China</i>
8:45 – 9:00	Theoretical and Simulation-based Analysis of Diverging Diamond Interchanges in China <i>Hongbo Wang, Southeast University, China</i>
9:00 – 9:15	Research on Traffic Flow Characteristic Parameters of Urban Road Section in Adverse Weather Conditions <i>Jiancheng Weng, Beijing University of Technology, China</i>
9:15 – 9:30	Optimizing Conflicting Transit Signal Priority Requests: Application to an Isolated Intersection <i>Mingtao Xu, Southeast University, China</i>
9:30 – 10:10	Q&A

Sunday, July 26

Technical Session V-A: Transportation Policy, Planning and Modeling

Chair: Dr. Hui Zhao, Associate Professor, Beijing Jiaotong University, China

8:00 – 10:10

Conference Room 2

Building 8 嘉宾楼

Beijing Friendship Hotel

8:00 – 8:15	A Note on Lawphongpanich and Yin's Manifold Suboptimization Algorithm for Mathematical Programs with Complementary Constraints <i>Zhaoming Chu, Southeast University, China</i>
8:15 – 8:30	Study on Development Strategy of Shandong Province Highway Passenger Transport in the Integrated Transport System <i>Changdi Chen, Shandong University, China</i>
8:30 – 8:45	Special Service for Enhancing Late Arrival Passengers' Possibility of Catching up High-Speed Train's Departure Based on Arena Simulation <i>Bo Yang, Beijing Jiaotong University, China</i>
8:45 – 9:00	Prediction Model of Chinese Urban Rail Transit Network Scale <i>Jingwei Han, Beijing Jiaotong University, China</i>
9:00 – 9:15	Shared parking policy analysis based on Game theory <i>Xiaowei Hu, Harbin Institute of Technology, China</i>
9:15 – 9:30	Measuring Traffic Congestion with Taxi GPS Data and Travel Time Index <i>Xiangfu Kong, Peking University, China</i>
9:30 – 9:45	Analysis and Prediction of Mobility Development Pattern in China <i>He Ma, Tsinghua University, China</i>
9:45 – 10:10	Q&A

Sunday, July 26

Technical Session VI-A: Public Transit

Chair: Dr. Jun Bi, Professor, Beijing Jiaotong University, China

8:00 – 10:10

Conference Room 5

Building 8 嘉宾楼

Beijing Friendship Hotel

8:00 – 8:15	Influence of trip time and trip cost on trip mode for residents in the medium-sized city <i>Gang Chen, Chang'an university, China</i>
8:15 – 8:30	Visualization Analysis for Urban Human Traveling Behavior Based on Mobile Phone Data <i>Yanwei Wang, Tsinghua University, China</i>
8:30 – 8:45	Variable Selection of Travel Demand Models for Paratransit Service: A Data Mining Approach <i>Chung-Wei Shen, National Taiwan Ocean University, China</i>
8:45 – 9:00	The Analysis of Crowding Effect on Passengers' Movement Time Based on Smart Card Data <i>Kangjia Zhao, National University of Singapore, Singapore</i>
9:00 – 9:15	How Built Environment Affects the Walking Catchment Area of Rail Transit Station: Empirical Evidence from Shanghai, China <i>Haopeng Deng, Tongji University, China</i>
9:15 – 9:30	Predictive Public-Transport Vehicle Control for Synchronized Transfers in Schedule-based Networks <i>Tao Liu, The University of Auckland, New Zealand</i>
9:30 – 10:10	Q&A

Spotlight Session II: Network Modeling and Optimization

Chair: Dr. Xuegang (Jeff) Ban, Associate Professor, Rensselaer Polytechnic Institute (RPI), USA

10:30 – noon

Conference Room 1

Building 7 瑞宾楼

Beijing Friendship Hotel

10:30 – 10:50	Robustness in transportation networks: a case study on air transportation <i>Dr. Xiaoqian Sun, Beihang University, China</i>
10:50 – 11:10	Modeling Dynamic User Equilibria with Differential Variational Inequalities <i>Dr. Xuegang (Jeff) Ban, Associate Professor, Rensselaer Polytechnic Institute (RPI), USA</i>
11:10 – 11:30	An Integer Multi-Objective Optimization Model and an Enhanced Non-Dominated Sorting Genetic Algorithm for Contraflow Scheduling Problem <i>Dr. Yingyan Lou, Assistant Professor, Arizona State University, USA</i>
11:30 – 11:50	Modeling Heterogeneous Traffic Flow: A Pragmatic Approach <i>Dr. Sean Qian, Assistant Professor, Carnegie Mellon University, USA</i>
11:50 – noon	Q&A

Sunday, July 26

Spotlight Session III: Transportation Planning and Urban Development**Chair: Dr. Jason Cao, Associate Professor, University of Minnesota, USA****10:30 – noon
Conference Room 2****Building 7 瑞宾楼
Beijing Friendship Hotel**

10:30 – 10:50	SmarTrAC: A Smartphone Solution for Context-Aware Travel and Activity Capturing <i>Dr. Yingling Fan, Associate Professor, University of Minnesota, USA</i>
10:50 – 11:10	How if You Live in the Wrong Neighborhood? The Impacts of Xi'an Metro on Transit Use <i>Dr. Jason Cao, Associate Professor, University of Minnesota, USA</i>
11:10 – 11:30	Transit Oriented Urban Redevelopment <i>Mr. Daizong Liu, World Resources Institute</i>
11:30 – 11:50	Optimization of Incentive Policies for Plug-in Electric Vehicles <i>Dr. Yu (Marco) Nie, Northwestern University, USA</i>
11:50 – noon	Q&A

Special Session: Meet with Editors in Chief**Moderator: Dr. Xiaokun (Cara) Wang, Rensselaer Polytechnic Institute, USA****10:30 – noon
Conference Room 5****Building 8 嘉宾楼
Beijing Friendship Hotel**

10:30 – 10:35	<i>Introduction</i>
10:35 – 11:35	<i>Panel Discussion</i> <i>Panelists:</i> <i>Dr. Hai Yang, EIC, Transportation Research Part B: Methodological</i> <i>Dr. Hong K. Lo, Founding EIC, Transportmetrica B: Transport Dynamics</i> <i>Dr. Yafeng Yin, EIC, Transportation Research Part C: Emerging Technologies</i>
11:35 – noon	Q/A

Sunday, July 26

Technical Session IV-B: Road Traffic Operations, Management, and Control

Chair: Dr. Jinxian Weng, Professor, Shanghai Maritime University, China

10:30 – 12:00

Conference Room 1

Building 8 嘉宾楼

Beijing Friendship Hotel

10:30 – 10:45	A rule-based signal compensation strategy for non-bus-priority approach and the visualization for its performances <i>Wenxin Qiao, Beijing Jiaotong University, China</i>
10:45 – 11:00	Active Targeted Traffic Guidance Information Release System <i>Dong Zhang, Beijing Jiaotong University, China</i>
11:00 – 11:15	Bottleneck identification on Beijing road network based on reliability <i>Xin Wang, Beihang University, China</i>
11:15 – 11:30	Research on the Capacity Influence Area of Merging Segment in Urban Expressway--- Taking Beijing fifth ring expressway as a case <i>Xin Chang, Beijing University of Technology, China</i>
11:30 – 11:45	Role of street pattern in zone-based traffic safety analysis <i>Xin Pei, Tsinghua University, China</i>
11:45 – 12:00	Q&A

Technical Session V-B: Transportation Policy, Planning and Modeling

Chair: Dr. Yao-Jan Wu, Assistant Professor, University of Arizona, USA

10:30 – 12:00

Conference Room 2

Building 8 嘉宾楼

Beijing Friendship Hotel

10:30 – 10:45	Analysis of Car Ownership Growth Trend in China under The Purchasing Limitation Policy <i>Meiyang Jian, Tsinghua University, China</i>
10:45 – 11:00	Stochastic User Equilibrium Traffic Assignment Problem with Tradable Credit Scheme <i>Fei Han, Southeast University, China</i>
11:00 – 11:15	Towards a Sustainable Suburban Center: An analysis of Activity Space of Both Residents and Workers <i>Yu Ding, Tsinghua University, China</i>
11:15 – 11:30	Bottleneck Congestion With Stochastic Capacity And Modal Split <i>Lingling Xiao, Beijing Jiaotong University, China</i>
11:30 – 12:00	Q&A

Technical Session VII-A: Intelligent Transportation Systems		10:30 – 12:00
Chair: Wei Guan, Professor, Beijing Jiaotong University, China		Conference Room 3
		Building 8 嘉宾楼
		Beijing Friendship Hotel
10:30 – 10:45	The OBU Identified Traffic Flow Characteristics Research Based on ITS SPOT Data <i>Ling Sun, Research Institute of Highway, Ministry of Transport, China</i>	
10:45 – 11:00	Calibrate Big Traffic Data for Transport Smart City <i>Xiaoxia Wang, Beijing Jiaotong University, China</i>	
11:00 – 11:15	Freeway Traffic State Estimation Based on Extended Kalman Filter <i>Changyin Dong, Southeast University, China</i>	
11:15 – 11:30	An Energy-efficient Vehicle Detection Algorithm for Complex Urban Traffic Environment <i>He Han, Huazhong University of Science and Technology, China</i>	
11:30 – 11:45	An Effective Topology Optimization Algorithm for Wireless Network with Parking Surveillance Sensors <i>Hongpeng Zhao, Huazhong University of Science and Technology, China</i>	
11:45 – 12:00	Q&A	

Sunday, July 26

Plenary Session III: Transportation Planning and Public Transport

14:00 – 16:10

Conference Room 1

Building 7 瑞宾楼

Chair: Dr. Lei Zhang, Associate Professor, University of Maryland, USA

Beijing Friendship Hotel

14:00 – 14:25	Frontier Methods in Transportation Planning-The Case of Evacuation Planning <i>Dr. Kostas Triantis, Professor, Virginia Tech, USA</i>
14:25 – 14:50	MATSim: An agent-based framework of travel demand and traffic flow <i>Dr. Kay W. Axhausen, Professor, ETH Zurich, Switzerland</i>
14:50 – 15:15	ITS-Based Online Tactics for Synchronizing Public-Transport Transfers <i>Dr. Avi Ceder, Professor, University of Auckland, New Zealand</i>
15:15 – 15:40	Robust Transit Network Design With Stochastic Demand <i>Dr. Hong K. Lo, Professor, The Hong Kong University of Science and Technology, China</i>
15:40 – 16:10	Q&A
Coffee Break	
16:10 – 16:30	

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Technical Session V-C: Transportation Policy, Planning and Modeling

14:00 – 16:10

Conference Room 2

Building 8 嘉宾楼

Chair: Dr. Xumei Chen, Professor, Beijing Jiaotong University, China

Beijing Friendship Hotel

14:00 – 14:15	Methodology on the Hierarchical Classification of the Megalopolis Transportation Corridor <i>Zhongxiang Wang, Beijing Jiaotong University, China</i>
14:15 – 14:30	City-wide examining transport network accessibility using GPS data <i>Jianxun Cui, Harbin Institute of Technology, China</i>
14:30 – 14:45	Forecasting Transport Modes Share in Beijing <i>Tingting Hua, Tsinghua University, China</i>
14:45 – 15:00	Research on Dynamic Adjustment Strategy of Metro Fare Based on Game Theory <i>Lumei Liu, Beijing Jiaotong University, China</i>
15:00 – 15:15	Effects of Incorporating the Extended Theory of Planned Behavior in Mode Choice Model <i>Jing Peng, Jiangsu University, China</i>
15:15 – 15:30	Specification and Estimation of the UrbanSim2 Model in Salt Lake City, Utah, USA <i>Michael J. Clay, Brigham Young University, USA</i>
15:30 – 15:45	Tradable Credit Scheme for Network Congestion Management: Considering Travelers' Perception Errors <i>Lingli Huang, Southeast University, China</i>
15:45 – 16:10	Q&A

Technical Session VI-B: Public Transit Chair: Dr. Xuesong Feng, Associate Professor, Beijing Jiaotong University, China 14:00 – 16:10 Conference Room 5 Building 8 嘉宾楼 Beijing Friendship Hotel	
14:00 – 14:15	Logic Rule-based Bus Rapid Transit Signal Priority of Controlling Overflow for Bus On Schedule <i>Xingyong Liu, Tongji University, China</i>
14:15 – 14:30	A Review of Experimental Studies on Complex Pedestrian Movement Behaviors <i>Xiaomeng Shi, Southeast University, China</i>
14:30 – 14:45	Effects of Bus Stop Location on the Efficiency of Bus Priority for Arterials with Segmented Signal Progression Control <i>Dalin Wang, Southeast University, China</i>
14:45 – 15:00	Coordinative Passenger Flow Control during Peak Hours in Urban Rail Stations <i>Lili Wang, Beijing Jiaotong University, China</i>
15:00 – 15:15	Calculation Method for on-board Crowding Degree of a Bus Route/Network <i>Yuhuan Wang, Beijing Institute of Technology, China</i>
15:15 – 15:30	An Adjustment Method for Bus Routes to be Split or Shortened Based on the Bus Passenger OD Matrix Analysis <i>Changhai Wei, Beijing Jiaotong University, China</i>
15:30 – 16:10	Q&A

Sunday, July 26

Technical Session VII-B: Intelligent Transportation Systems

14:00 – 16:10

Conference Room 3

Chair: Dr. Liang Gao, Associate Professor, Beijing Jiaotong University, China

Building 8 嘉宾楼

Beijing Friendship Hotel

14:00 – 14:15	A Queueing Network Based Method for Evaluating Personal Rapid Transit Guideway Network Performance <i>Kangjia Zhao, National University of Singapore, Singapore</i>
14:15 – 14:30	An Improved K-Nearest Neighbor Model for Road Speed Forecast based on Spatiotemporal Correlation <i>Pinlong Cai, Beihang University, China</i>
14:30 – 14:45	A Novel Parking Guidance and Management System: A Case Study for Jinan, China <i>Lin Zhu, Shandong University, China</i>
14:45 – 15:00	Minimum Sample Size Determination of Floating Car in Urban Hybrid Road Network <i>Zhaosheng Zhang, Beijing Institute of Technology, China</i>
15:00 – 15:15	Evaluation of the Intelligent Behaviors of Unmanned Ground Vehicles Based on Information Theory <i>Kaiwen Meng, Beijing Institute of Technology, China</i>
15:15 – 15:30	Research on the ATIS benefit with CPT-based heterogeneous route choice behaviors and endogenous market penetration <i>Lijun Tian, Fuzhou University, China</i>
15:30 – 15:45	AR and ESE Method for Traffic Incident Analysis on Urban Arterials <i>Liang Gao, Beijing Jiaotong University, China</i>
15:45 – 16:10	Q&A

Sunday, July 26

Spotlight Session IV: Traffic Control with Connected Vehicles

16:30 – 18:20

Conference Room 1

Building 7 瑞宾楼

Chair: Dr. Wanjing Ma, Professor, Tongji University, China

Beijing Friendship Hotel

Connected vehicle technology is an emerging field that crosses multiple disciplines and industries. It may also impact the field of traffic control significantly. The purpose of this session is to bring together engineers, researchers and practitioners interested in the advances and applications of traffic control in connected vehicle environment. The presenters will discuss connected vehicle system architecture, standards, and especially the innovative ideas for making use of connected vehicle technologies for signal timing optimization. Moreover, this session will enhance the international collaborative research and education in traffic control and connected vehicle related areas.

16:30 – 16:35	Welcome and Opening Remarks <i>Dr. Henry Liu, University of Michigan, Ann Arbor, USA</i>
16:35 – 16:50	Traffic Control in the Era of V2X <i>Dr. Li Li, Tsinghua University, China</i>
16:50 – 17:05	The role and challenges of signal control in connected vehicles <i>Dr. Zongzhong Tian, University of Nevada Reno, USA</i>
17:05 – 17:20	V2X Standards and Practices in Traffic Control <i>Dr. Luoyi Huang, Denso Investment Co., LTD., Japan</i>
17:20 – 17:40	Connected vehicles go through the intersection by rules without signal <i>Dr. Guangquan Lu, Beihang University, China</i>
17:40 – 17:55	Traffic Signal Timing Optimization by Considering Vehicle Dynamic Characteristics <i>Dr. Xuegang (Jeff) Ban, Rensselaer Polytechnic Institute, USA</i>
17:55 – 18:05	Collision Avoidance Model for Autonomous Vehicles Platoon on Urban Road <i>Dr. Wanjing Ma, Tongji University, China</i>
18:05 – 18:20	Q&A

Sunday, July 26

Spotlight Session V: Infrastructure Systems

16:30 – 18:20

Chair: Dr. David S. Hurwitz, Assistant Professor, Oregon State University, USA**Conference Room 2****Building 7 瑞宾楼****Beijing Friendship Hotel**

16:30 – 16:50	A Cost-Effective Kinect-Based Approach for 3D Pavement Surface Reconstruction and Cracking Recognition <i>Dr. Guohui Zhang, Assistant Professor, University of New Mexico, USA</i>
16:50 – 17:10	Landscape Design in Highway Medians at Unsignalized Intersections <i>Dr. Hongyun Chen, Assistant Professor, Embry-Riddle Aeronautical University, USA</i>
17:10 – 17:30	WSDOT Illumination Reform and LED Adaptive Roadway Lighting <i>Mr. Ted Bailey, Transportation Engineer, Washington State Department of Transportation, USA</i>
17:30 – 17:50	Understanding Interdependencies Between Networks: Towards Resilient Lifeline Infrastructure Systems for Smart Cities <i>Dr. Haizhong Wang, Assistant Professor, Oregon State University, USA</i>
17:50 – 18:10	Driving Simulator Evaluation of Alternative Information Signs in Oregon <i>Dr. David S. Hurwitz, Assistant Professor, Oregon State University, USA</i>
18:10 – 18:20	Q&A

Spotlight Session VI: Traffic Safety and System Planning

16:30 – 18:20

Chair: Dr. Jianming Ma, Transportation Engineer, Texas DOT, USA**Conference Room 1****Building 8 嘉宾楼****Beijing Friendship Hotel**

16:30 – 16:50	Notes on Modeling Multiple-Vehicle Crashes at Urban and Suburban Signalized Intersections <i>Dr. Yuanchang Xie, Assistant Professor, University of Massachusetts Lowell, USA</i>
16:50 – 17:10	Experimental Research on the Effectiveness of Speed Reduction Markings based on Drivers' Operating Performance: A Driving Simulation Study <i>Dr. Jianming Ma, Transportation Engineer, Texas DOT, USA</i>
17:10 – 17:30	Transportation System Management Using Innovative Concepts and Technologies <i>Dr. Christopher Francis, Transportation Engineer, Florida Department of Transportation, USA</i>
17:30 – 17:50	Human Oriented Transportation Design <i>Dr. Binglei Jiang, China Academy of Urban Planning and Design</i>
17:50 – 18:10	A bicycle network analysis tool for planning applications <i>Dr. Anthony Chen, Professor, Utah State University, USA</i>
18:10 – 18:20	Q&A

Sunday, July 26

Technical Session IV-C: Road Traffic Operations, Management, and Control

Chair: Dr. Meng Li, Associate Professor, Tsinghua University, China

16:30 – 18:20

Conference Room 2

Building 8 嘉宾楼

Beijing Friendship Hotel

16:30 – 16:45	Study of bus stop-skipping scheme based on modified cellular genetic algorithm <i>Yongbo Yu, Southeast University, China</i>
16:45 – 17:00	Bus Priority Signal Control Strategy for Intersections without Bus Lanes <i>Yueguang Li, Beihang University, China</i>
17:00 – 17:15	Multi-objective evaluation of urban traffic network state based on BP neural network <i>Bo Li, Tongji University, China</i>
17:15 – 17:30	Continuous network design problem with considering the intersection delays and the parameter analysis in the PSO <i>Fali Teng, Southeast University, China</i>
17:30 – 17:45	Highway Network Critical Segments Identifying Method with Network Dynamic Traffic Characteristics: A Simulation Based Study <i>Fan Zhang, National ITS Research Center, China</i>
17:45 – 18:00	Distribution Models for Effective Flow Rate at Signalized Intersections in Beijing <i>Kaili Yin, North China University of Technology, China</i>
18:00 – 18:20	Q&A

Sunday, July 26

Technical Session VI-C: Public Transit

Chair: Dr. Bin Jia, Professor, Beijing Jiaotong University, China

16:30 – 18:20

Conference Room 5

Building 8 嘉宾楼

Beijing Friendship Hotel

16:30 – 16:45	Understanding the Structure of Urban Bus Networks: The C-space Representation Approach <i>Lijun Sun, National University of Singapore, Singapore</i>
16:45 – 17:00	Determining Key Factors Affecting Passengers' Satisfaction Level with Public Buses: A Case Study in Shanghai <i>Shulin Wang, Tongji University, China</i>
17:00 – 17:15	A Combined Forecasting Model of Urban Rail Transit Peak-hour Cross-section Passenger Volume <i>Da Huang, Beijing Jiaotong University, China</i>
17:15 – 17:30	Assessing Equity of Regular Public Transit Fare Policy Based on Gini Coefficient <i>Shaowu Cheng, Harbin institute of technology, China</i>
17:30 – 17:45	Formulation and Numerical Analysis of Commuting Equilibrium on Transit System with Women-only Cars <i>Peng Liu, Beihang University, China</i>
17:45 – 18:20	Q&A

Technical Session VII-C: Intelligent Transportation Systems		16:30 – 18:20
Chair: Dr. Wei Chong, Associate Professor, Beijing Jiaotong University, China		Conference Room 3 Building 8 嘉宾楼 Beijing Friendship Hotel
16:30 – 16:45	Short-term traffic flow prediction based on multilinear analysis and k-nearest neighbor regression <i>Yuankai Wu, Beijing Institute of Technology, China</i>	
16:45 – 17:00	Tensor Recovery Based Non-recurrent Traffic Congestion Recognition <i>Qin Li, Beijing Institute of Technology, China</i>	
17:00 – 17:15	A Generalized Assessment Model for the Amount of Information of Variable Message Signs <i>Bowen Yixie, Tongji University, China</i>	
17:15 – 17:30	Research on Visibility Detection Method of Road Weather Visibility Meter <i>Li Zhao, Research Institute of Highway, Ministry of Transport, China</i>	
17:30 – 17:45	Research on identification method of Transportation mode based on GPS data <i>Guangyang Liu, Tongji University, China</i>	
17:45 – 18:00	Application of Factor Analysis and SVM Technique In Expressway Condition Pattern Recognition <i>Linxiang Wei, Chang'an University, China</i>	
18:00 – 18:20	Q&A	

Monday, July 27

Plenary Session IV: Solutions for Traffic Congestion

8:00 – 10:10

Chair: Dr. Henry Liu, Professor, University of Michigan, USA

Conference Room 1

Building 8 嘉宾楼

Beijing Friendship Hotel

8:00 – 8:20	Optimal Deployment of Charging Lanes in Transportation Networks <i>Dr. Yafeng Yin, Professor, University of Florida, USA</i>
8:20 – 8:40	A Pattern Recognition Approach for Measuring Performance of High Occupancy Vehicle Lanes <i>Dr. Ali Haghani, Professor, University of Maryland, USA</i>
8:40 – 9:00	Optimization for Automated Vehicles at Isolated Signalized Intersections <i>Dr. Lily Elefteriadou, Professor, University of Florida, USA</i>
9:00 – 9:20	A Unified Route Choice Model with Adaptive Value of Time <i>Dr. Hai Yang, Professor, The Hong Kong University of Science and Technology, China</i>
9:20 – 9:40	A City Logistic Solution to Urban Traffic Congestion <i>Dr. Michael Bell, Professor, University of Sydney, Australia</i>
9:40 – 10:10	Q&A
Coffee Break	
10:10 – 10:30	

Technical Session VIII: Logistics and Freight Transportation

8:00 – 10:10

Chair: Dr. Xiaodong Zhang, Associate Professor, Beijing Jiaotong University, China

Conference Room 2

Building 8 嘉宾楼

Beijing Friendship Hotel

8:00 – 8:15	Design of supply chains with integration of reverse logistics of automobile parts <i>Rao Zhao, Chang'an University, China</i>
8:15 – 8:30	Modeling multi-objective facility location allocation problem within green logistics network design <i>Lan Zhu, Chang'an University, China</i>
8:30 – 8:45	Study on the feasibility of short-to-medium distance intermodal transport based on agent model <i>Yu Wei, Chang'an university, China</i>
8:45 – 9:00	Modern freight development and trend analysis of Shandong Province <i>Ru-hua Zhang, Shandong University, China</i>
9:00 – 9:15	Study on the One-Commodity Pickup-and-Delivery Vehicle Routing Problem <i>Linlin Zhang, Chang'an university, China</i>
9:15 – 9:30	The pseudo-hypercycle and its effects: a study on a LTL trucking company in China <i>Hongqi Li, Beihang University, China</i>
9:30 – 10:10	Q&A

Monday, July 27

Technical Session IX: Pavement and Materials Engineering, and Highway Construction and Maintenance Chair: Dr. Ping Yi, Professor, University of Akron, USA		8:00 – 10:10 Conference Room 3 Building 8 嘉宾楼 Beijing Friendship Hotel
8:00 – 8:15	Experimental Study on Crack Detection of Orthotropic Bridge Deck <i>Shu Yue Zheng, Wuhan University of Technology, China</i>	
8:15 – 8:30	Analysis of Free Vibration of Single-pylon Self-anchored Suspension Based on Rayleigh Method <i>Lianzhen Zhang, Harbin Institute of Technology, China</i>	
8:30 – 8:45	Experimental Research on Pavement Performance of Recycled Tire Rubber Powder Modified Concrete <i>Yan-cong Zhang, Shanxi Transportation Research Institute, China</i>	
8:45 – 9:00	Experimental Research on Anti-freeze Performance of Road Fiber Concrete in Erosion Solution <i>Yan-cong Zhang, Shanxi Transportation Research Institute, China</i>	
9:00 – 9:15	Simulation of Four-point Bending Beam Fatigue Test of Asphalt Mixture using PFC3D <i>Yao Zhang, Southeast University, China</i>	
9:15 – 9:30	Performances Assessment of Cold Recycled Mixtures: Dissolving and Emulsifying of Aged Asphalt in Recycled Asphalt Pavement <i>Liheng Shu, South China University of Technology, China</i>	
9:30 – 10:10	Q&A	
Technical Session X: High-Speed Rail Safety Chair: Dr. Yong Qin, Professor, Beijing Jiaotong University, China		8:00 – 10:10 Conference Room 5 Building 8 嘉宾楼 Beijing Friendship Hotel
8:00 – 8:15	Influence of Causing Factors on CRH2 EMU Failure Consequences Using Decision Trees <i>Xinyu Liu, Beijing Jiaotong University, China</i>	
8:15 – 8:30	A segment-based model for estimating railway rail service life <i>Lei Bai, Beijing Jiaotong University, China</i>	
8:30 – 8:45	Safety Assessment Research on Mechanical Components of High-speed Maglev Train Based on FMEA <i>Jie Hu, Tongji University, China</i>	
8:45 – 9:00	Failure Location for Voltage Converter on the High-speed Maglev Train <i>Haiyuan Guo, Tongji University, China</i>	
9:00 – 9:15	Reliability Analysis of DC/DC Converter for the High-speed Maglev Train <i>Zhengliang Tang, Tongji University, China</i>	
9:15 – 10:10	Q&A	

Monday, July 27

Spotlight Session VII: V2I and V2V**Chair: Dr. Yingyan Lou, Assistant Professor, Arizona State University, USA****10:30 – noon****Conference Room 1****Building 8 嘉宾楼****Beijing Friendship Hotel**

10:30 – 10:50	Potential Impact of Connected Vehicle on Driver Behaviors and Their Aggregated Effect: Synthetic Analysis <i>Dr. Heng Wei, Professor, University of Cincinnati, USA</i>
10:50 – 11:10	Infrastructure Connectivity and Big Data will Make Transportation System Smarter <i>Dr. Zhijun (Tony) Qiu, Associate Professor, University of Alberta, USA</i>
11:10 – 11:30	Distributed Traffic Monitoring with Vehicle-to-Vehicle Communications <i>Dr. Yingyan Lou, Assistant Professor, Arizona State University, USA</i>
11:30 – 11:50	Coordination Algorithm for Improved Traffic Network Performance <i>Dr. Ping Yi, Professor, The University of Akron, USA</i>
11: 50 – noon	Q&A

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Spotlight Session VIII: Smart Growth**Chair: Mr. Kyle Liang, Montgomery County DOT, Maryland, USA****10:30 – noon****Conference Room 5****Building 8 嘉宾楼****Beijing Friendship Hotel**

10:30 – 10:50	Financing Transportation Programs through Layers of Governments <i>Mr. Jason Wang, Appalachian Regional Commission, USA</i>
10:50 – 11:10	Transportation/Air Quality Conformity <i>Dr. Wenjing Pu, Transportation Engineer, Metropolitan Washington Council of Government, USA</i>
11:10 – 11:30	Connected Vehicles – An overview of Technologies and Applications <i>Dr. Ruihua Tao, Senior Transportation Engineer, Maryland Department of Transportation, USA</i>
11:30 – 11:50	Smart Growth and Complete Streets <i>Mr. Kyle Liang, Montgomery County DOT, Maryland, USA</i>
11: 50 – noon	Q&A

Monday, July 27

Technical Session XI: Aviation, Marine and Water Transportation Chair: Dr. Zhiyuan Shen, Associate Professor, Nanjing University of Aeronautics and Astronautics, China		10:30 – 12:00 Conference Room 2 Building 8 嘉宾楼 Beijing Friendship Hotel
10:30 – 10:45	UAV Route Planning Model and Algorithm Considering Time Window and Multi-surveillance for Traffic Surveillance <i>Xiaofeng Liu, Tianjin University of Technology and Education, China</i>	
10:45 – 11:00	Dynamic Ticket Pricing of High-speed Railway and Airline Based on Customer Choice <i>Rui Zhang, Dalian Maritime University, China</i>	
11:00 – 11:15	Dynamic Arrival Scheduling Based on Branch & Bound Algorithm <i>Junfeng Zhang, Nanjing University of Aeronautics and Astronautics, China</i>	
11:15 – 11:30	A Novel 4D Track Prediction Approach Combining Empirical Mode Decomposition with Nonlinear Correlation Coefficient <i>Zhiyuan Shen, Nanjing Aeronautics and Astronautics University, China</i>	
11:30 – 12:00	Q&A	

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Technical Session XII: Transportation Energy, Environment and Sustainability Chair: Dr. Guohua Song, Associate Professor, Beijing Jiaotong University, China		10:30 – 12:00 Conference Room 3 Building 8 嘉宾楼 Beijing Friendship Hotel
10:30 – 10:45	Optimization of Eco-Driving Trajectories at Intersections for Energy Saving and Emission Reduction <i>Qiusi Jin, Beijing Jiaotong University, China</i>	
10:45 – 11:00	Correlation analysis between transportation infrastructure and traffic accident based on fuzzy evaluation <i>Hong Zhu, Shangdong University, China</i>	
11:00 – 11:15	A Practical Framework Model for Estimating Fuel Consumption and Emissions on Urban Networks based on Multi-Source Data <i>Shuanghong Zhang, Beijing Jiaotong University, China</i>	
11:15 – 11:30	Study On Autonomous Vehicles Bio-inspired Decision-making Under Complex Dynamics Environments <i>Xuemei Chen, Beijing Institute of Technology, China</i>	
11:30 – 11:45	Assessment on Road Traffic Noise in the Xizhimen Overpass Area, Beijing <i>Liang Gao, Beijing Jiaotong University, China</i>	
11:45 – 12:00	Q&A	

Monday, July 27

The 6th COTA-MOT-World Bank China Transport Forum**Organizer:** COTA, Ministry of Transport, World Bank**Co-organizer:** Beijing Jiaotong University, China**8:00 – 12:00****Conference Room 1****Building 7 瑞宾楼****Beijing Friendship Hotel**

The COTA-World Bank China Transport Forum is a joint event to be organized by COTA and the World Bank during the annual COTA China CICTP conference since 2010. The purposes of the Forum are to (i) highlight critical challenges and opportunities in China's transport development and (ii) share and discuss international and Chinese experience on transportation development including experiences from the Bank funded transport projects in China among COTA members, invited government officials, researchers, educators and practitioners from China.

The 6th COTA-WB China Transport Forum will be jointly organized by COTA, the World Bank and Ministry of Transport of China. This year's forum will focus on transport economics and transportation for economic development in China and around world. It is a timely topic which links transportation and economic in a fast growing economy of the world. The forum will feature national and international experts on the topic to discuss range of issues related to transportation and economics as well as the economic development which is a core focus from Chinese government.

8:00 - 8:30

Opening Remark

Prof. Yafeng Yin, COTA President

Mr. Michel Kerf, Practice Manager, the World Bank

Mr. Shengying Yu, Deputy Director General, Dept. of Planning, MOT, China

Session I: Transport and Economic Development**Moderator: Mr. Michel Kerf, Practice Manager, The World Bank**

8:30 – 8:50

China's High-Speed Rail Impact on Economic Development

Prof. JIN Ying, Cambridge University, UK

8:50 – 9:10

Economic Impact for Completing the Appalachian Development Highway System (ADHS) in U.S.

Jason Wang, Appalachian Regional Commission, USA

9:10 – 9:30

Congestion Pricing in China

Prof. SONG Shunfeng, University of Nevada, Reno, USA

9:30 – 9:50

Transport and Poverty Reduction

Prof. Marlon Boarnet, University of Southern California (TBC)

9:50 – 10:00

Q&A

10:00 – 10:10

Tea/Coffee Break

Monday, July 27

Session II: Financing and Public-Private Partnership (PPP)	
Moderator: Mr. Yuhe Cai, Secretary, China Communications News (TBC)	
10:10 -10:30	<i>China PPP Case Study</i> <i>Tiger Shan, PricewaterhouseCoopers China (TBC)</i>
10:30 -10:50	<i>Urban Transport Financing under the New Budget Law</i> <i>Binyam Reja, Lead Transport Specialist, The World Bank</i>
10:50 – 11:10	Transit Metropolis <i>Prof. Yulin Jiang, Director, Urban Transport Research Center – CATS</i>
11:10 – 11:20	Q&A
Panel Discussion: New Ideas of Transport Development & Financing to Integrate into 13th FYP Preparation	
Moderator: Mr. Shengying Yu, Deputy Director General, Dept. of Planning, MOT	
11:20 – 12:00	Binyam Reja (Lead Transport Specialist, The World Bank) Shunfeng Song (University of Nevada, Reno) Jason Wang (Appalachian Regional Commission, USA) Ying Jin (Cambridge University, UK) Jifu Guo (Director, Beijing Transportation Research Center) Xuedong Yan (Beijing Jiaotong University) Yulin Jiang (Director, Urban Transport Research Center – CATS)

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General Information

Conference Venues & Maps

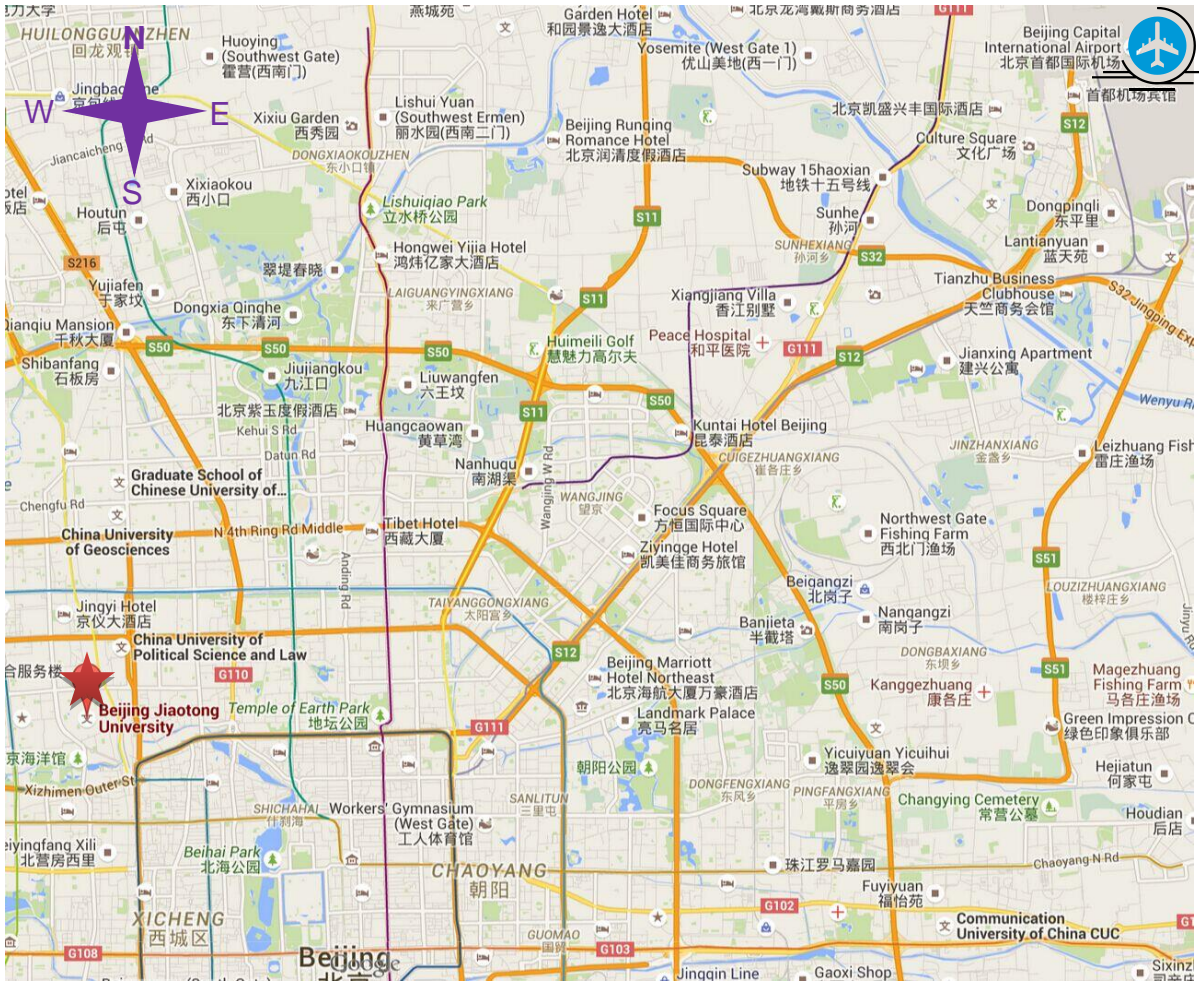


Beijing Map




2 km

62




General Information

Beijing Jiaotong University Vicinity Map

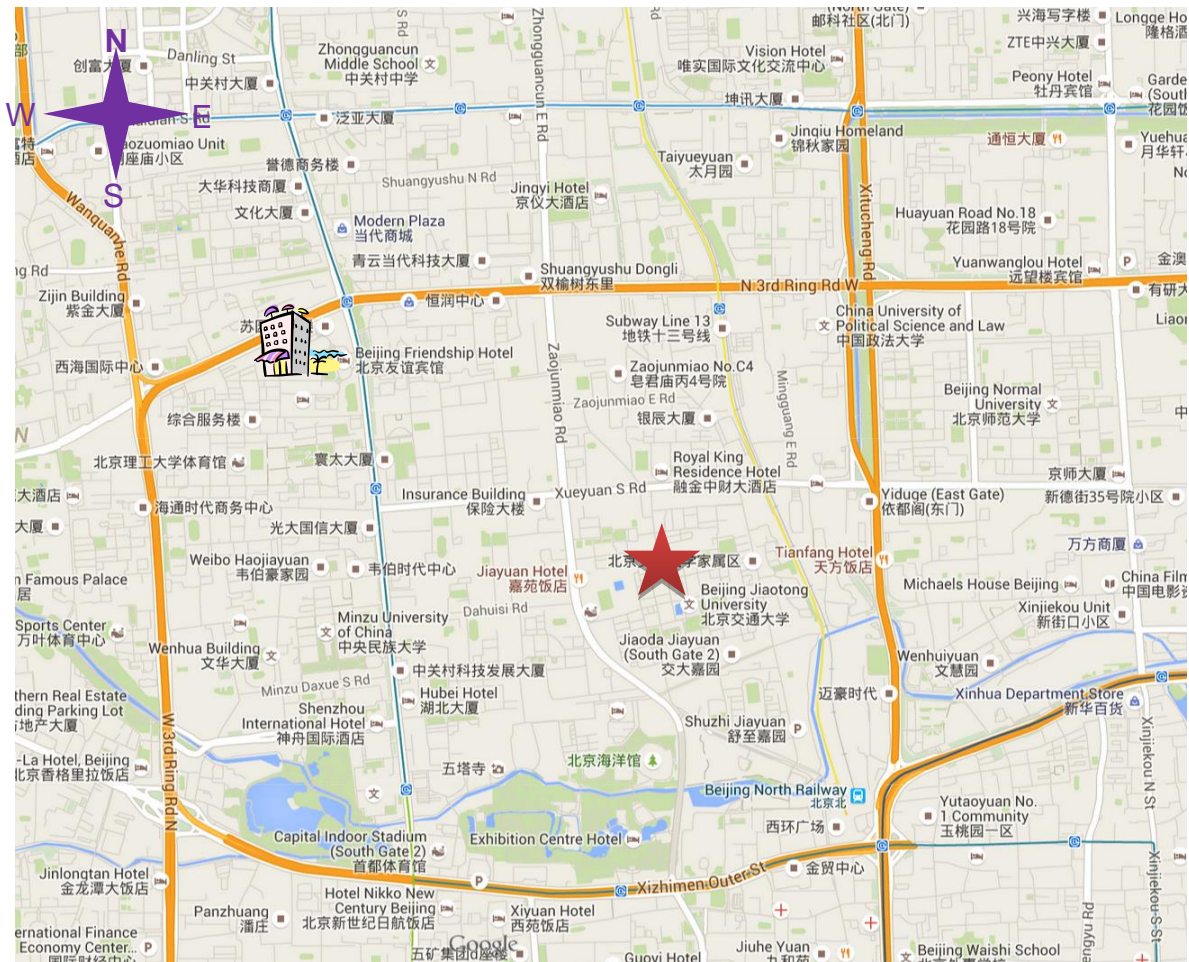


Beijing Jiaotong University

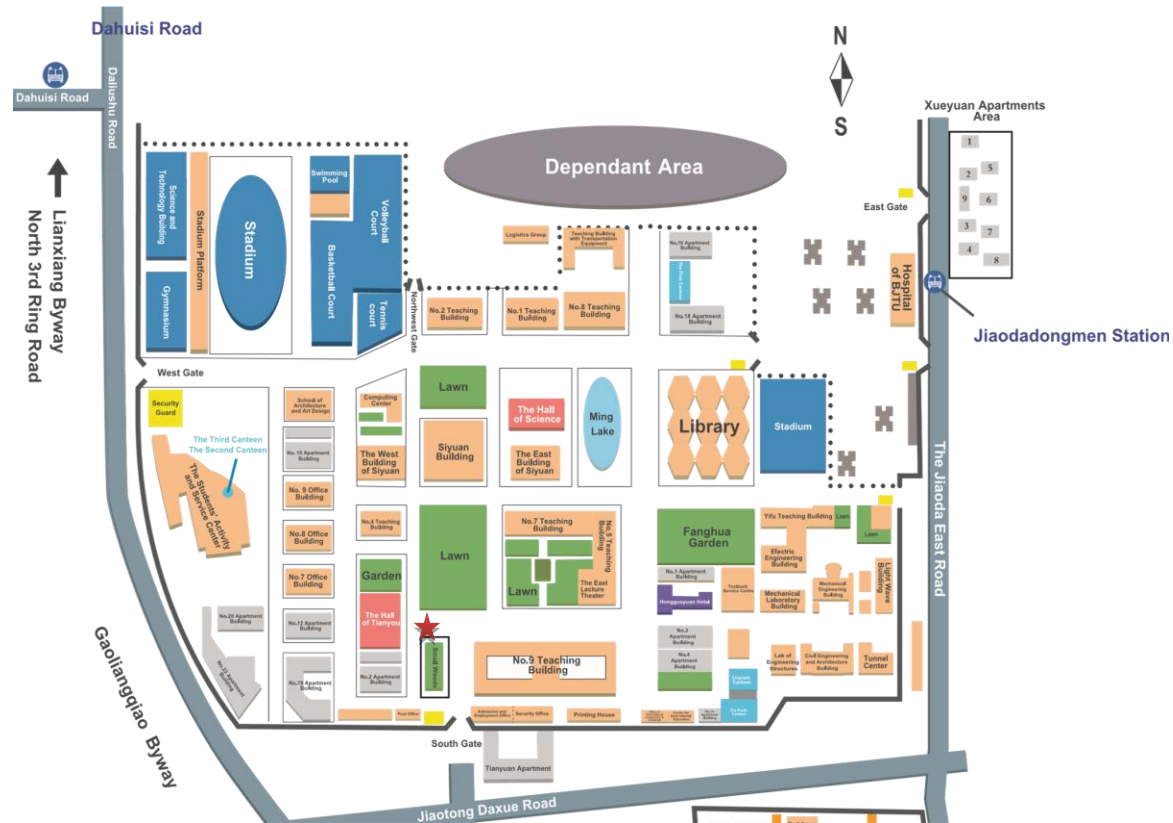
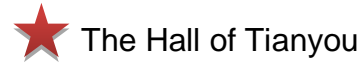


Beijing Friendship Hotel

500m



Main Campus Map, BJTU

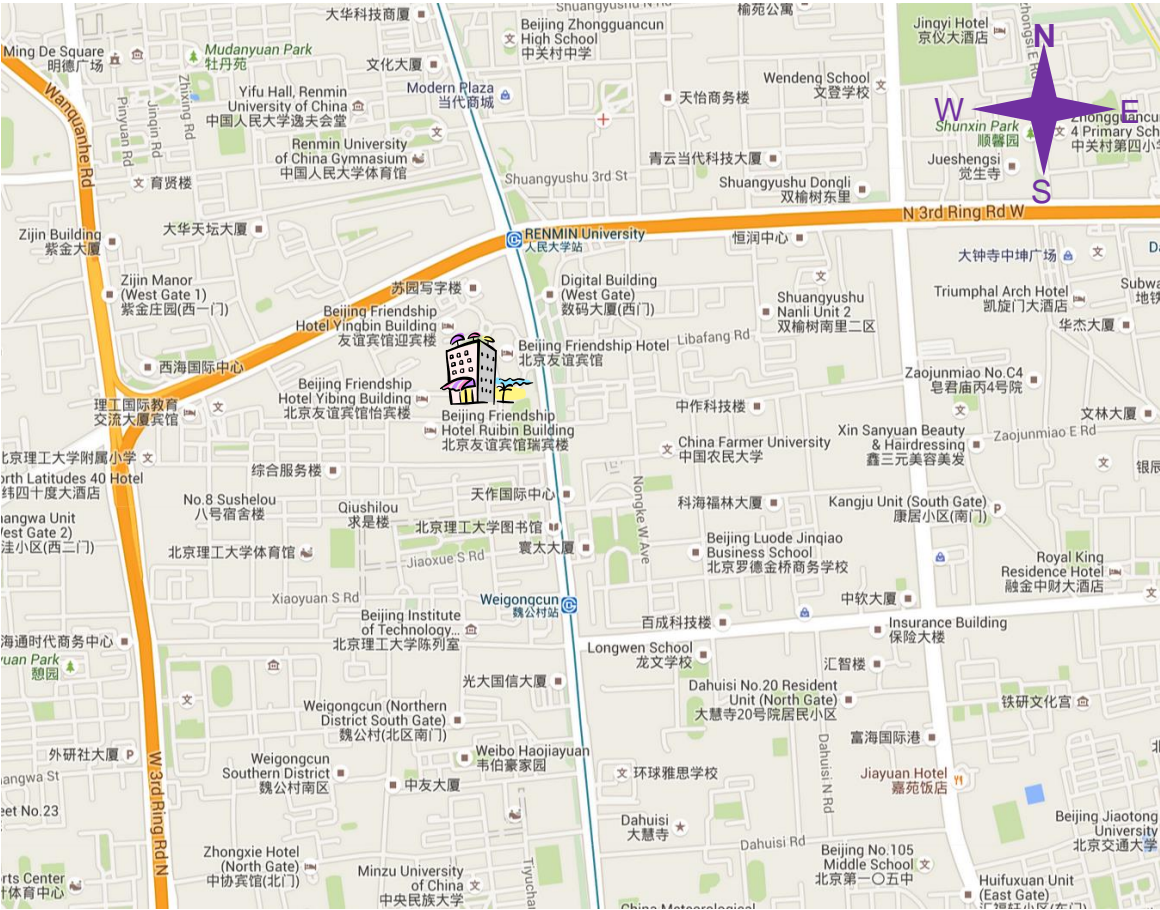


General Information

Beijing Friendship Hotel Vicinity Map



200 m



Beijing Friendship Hotel Vicinity Map (Cont'd)

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Conference Registration

Conference registration desk is located in the lobby of Building 8 (贵宾楼). Registration can be made July 24, 10:30-21:00, and July 25-26, 7:30 – noon.

VIP Welcome Dinner

The VIP welcome dinner is held in Friendship Palace, Grand Building (贵宾楼友谊宫餐厅), Friday, July 24 18:30 – 20:30.

Conference Buffet

Conference Buffets are provided on Saturday, July 25 and Sunday, July 26, 12:30-13:30 and 18:30 – 20:30 to all registered conference participants in Friendship Palace, Grand Building (贵宾楼友谊宫餐厅).

Farewell Lunch

The farewell lunch is held in Friendship Palace, Grand Building (贵宾楼友谊宫餐厅), Monday July 27, 12:00. A brief closing ceremony will take place, followed by an award ceremony and a handover ceremony from the CICTP 2015 organizers to the CICTP 2016 organizers.

Conference Secretariat

The conference secretariat, based in Beijing Jiaotong University, 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.

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Conference Speakers & Organizers

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Dr. Abdel-Aty is Pegasus Professor and Chair of the Civil, Environmental, and Construction Engineering Department at the University of Central Florida (UCF) and the Deputy Director of the Transportation Center (CATSS). His main expertise and interests are in the areas of traffic safety simulation, data analytics, and Intelligent Transportation Systems (ITS). The Pegasus Professorship, the highest honor at UCF, where he has supervised to graduation more than 50 Ph.D. and MS students. In the last 20 years, he has managed more than 50 research projects in excess of \$10 million and has published more than 370 papers, 195 of which are in journals. He is the Editor of *Accident Analysis and Prevention*, the premier journal in safety, and a member of the Editorial Boards of the *ITS Journal* and the *International Journal of Sustainable Transportation*, former Co-chair of the Transportation Research Board (TRB) Subcommittee on ATIS, and a member of multiple TRB committees, including Safety Performance.

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Dr. Ai received M.S. and Ph.D. degrees from Xidian University in Xi'an, China, and was at Tsinghua University as a Postdoctoral Research Fellow and now is a Visiting Professor in the Department of Electrical Engineering at Stanford University. He has authored/co-authored 6 books and more than 227 scientific research papers and holds 26 patents. His interests include dedicated mobile communications for rail traffic systems, radio propagation, and channel modeling. He is a Fellow of the Institution of Engineering and Technology, and he has been a Co-chair or a Session/Track Chair for many international conferences. He is an Associate Editor of *IEEE Transactions on Consumer Electronics* and an Editorial Committee member of *Wireless Personal Communications*. He has received many awards, such as the Qiushi Outstanding Youth Award by the HongKong Qiushi Foundation, the New Century Talents by the Chinese Ministry of Education, and the Zhan Tianyou Railway Science and Technology Award by the Chinese Ministry of Railways.

Conference Speakers & Organizers

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Dr. Axhausen is Professor of Transport Planning at ETH Zürich. Previously, he worked at the Leopold-Franzens Universität in Innsbruck, Imperial College in London, the University of Oxford, and the Universität Karlsruhe. He has been involved in the measurement and modeling of travel behavior for the last 30 years, contributing to the literature on stated preferences, micro-simulation of travel behavior, valuation of travel time and its components, parking behavior, and activity scheduling and travel diary data collection. His current work focuses on the agent-based micro-simulation toolkit MATSim (see www.matsim.org) and on the land-use/transport interaction.

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Dr. Bai is an Associate Professor in the Industrial Engineering Department at the University of Louisville. She received a Ph.D. in Industrial Engineering from the University of Florida. Her research interests are in modeling and computation in operations research, with focuses on applications to transportation & logistics and energy systems. Her research has been published in *Operations Research*, *Networks*, *IIE Transactions*, and *Journal of Global Optimization*, among others. She is a member of INFORMS, IIE, Alpha Pi Mu, and Alpha Iota Delta.

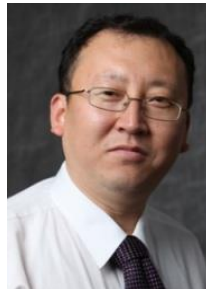
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Mr. Bailey is Business Manager at the Headquarters Traffic Operations Division of the Washington State Department of Transportation (WSDOT) in Olympia. He has been addressing traffic design and operational issues for more than 16 years and is a registered Professional Engineer (P.E.) in Washington State. He holds a Bachelor of Civil Engineering degree from the University of Minnesota and a Master of Science in Civil Engineering with an emphasis in Transportation Engineering from the University of Washington. He currently focuses on roadway illumination reform, strategic planning, practical design, least cost planning, and Transportation Systems Management and Operations (TSMO) integration within WSDOT.

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Conference Speakers & Organizers

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Dr. Bell is the Foundation Professor of Ports and Maritime Logistics in the Institute of Transport and Logistics at the University of Sydney Business School. For 10 years, he was the Professor of Transport Operations at Imperial College London, and he was the Founding Director of the Port Operations Research and Technology Centre (PORTeC) at Imperial. His research and teaching interests span ports and maritime logistics, transport network modeling, traffic engineering, and ITS. He is the author of many papers, a number of books (including *Transportation Network Analysis*), and was for 17 years an Associate Editor of *Transportation Research B*, the leading transport theory journal. He currently is an Associate Editor of *Transportmetrica A* and *Maritime Policy & Management*.

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Dr. Cao is an Associate Professor in the Humphrey School of Public Affairs at the University of Minnesota, Twin Cities. He is internationally-known for his research on the relationships between the built environment and travel behavior, particularly the role of residential self-selection. His research interests also include the impacts of telecommunications on travel and quality of life. He is the Vice Chair of the International Association for China Planning, a board member of the World Society for Transport and Land Use Research, and an invited member of TRB committees ADB 10 and ADB 20. He serves on the editorial boards of *Transportation, Environment, and Behavior* and *Travel Behavior and Society*. He received his degrees from Tsinghua University and the University of California, Davis.

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Dr. Ceder received a B.Sc. degree from the Technion, Faculty of Industrial and Management Engineering, and M.Sc. and Ph.D. in Transportation with emphasis on Operations Research and Human Factors from the University of California at Berkeley. In 2007, he began at the University of Auckland, where he is the Founder and was the Director until 2014 of the Transportation Research Centre. He served as Head of the Transportation Engineering and Geo-Information Department at the Technion, the Chief Scientist at the Israel Ministry of Transport, and the Israel delegate to the Transport Program of the European Community. He is a member of various international symposia and workshops, such as ISTTT and CASPT.

**Anthony
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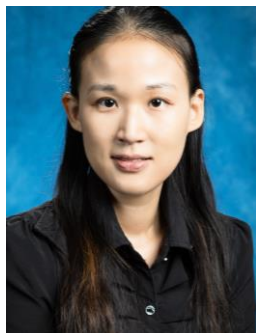


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Conference Speakers & Organizers

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Dr. Chen is an Assistant Professor in the Department of Civil Engineering at Embry-Riddle Aeronautical University (ERAU). She received a Ph.D. and an M.S. in Transportation Engineering from the University of South Florida (USF) after earning a B.S. from Southeast University in China. Prior to joining ERAU, she worked at the Center for Urban Transportation Research (CUTR) at USF. Her research interests include transportation safety, highway geometric design, traffic signal control and operation, ITS, and statistical modeling in traffic safety. She received the Florida Motorcycle Safety Coalition Excellence in Teamwork Award and Florida Minority Task Force on Occupant Protection Excellent in Teamwork Award from the Florida Department of Transportation and has published more than 40 peer-reviewed papers and conference proceedings in journals such as *Accident & Analysis Prevention*, *Safety Science*, *Journal of Transportation Engineering*, *ASCE*, *Transportation Research Record*, and others.

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Dr. Cheng is a professor in the School of Transportation at Southeast University. He holds a Ph.D. in Transportation Engineering from Kyoto University, Japan. His research focus is transportation planning and management, transportation network modeling, and transportation economics. He has authored or co-authored more than 150 peer-reviewed journal and conference articles related to transportation engineering and a textbook, *Urban Network Flow Theory*. He has worked as a Principal Investigator or Co-PI on numerous research projects, including 5 NSFC (Natural Science Foundation of China) projects and 2 National 863 plan projects.

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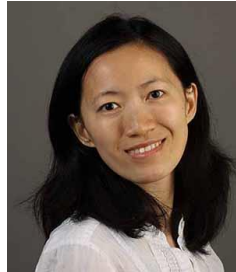


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Dr. Elefteriadou is the Director of the University of Florida Transportation Institute (UFTI) and the Kisinger Campo Professor of Civil Engineering at the University of Florida. Her research focus is traffic operations, traffic flow theory, and simulation. She has been the Principal Investigator for several projects funded by the National Cooperative Highway Research Program (NCHRP), the National Science Foundation (NSF), the Federal Highway Administration (FHWA), and the Pennsylvania and Florida DOTs. She has authored or co-authored nearly 200 publications and reports related to traffic operational quality and highway design and a textbook, *Introduction to Traffic Flow Theory*. She serves on the Editorial Board of the *Transportation Research: Part B* and is the Chair of the TRB committee on Highway Capacity and Quality of Service.

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Dr. Fan is Associate Professor of Urban and Regional Planning at the University of Minnesota. She studies the impacts of land use patterns and transportation networks on human activity-travel behavior and investigates the societal implications of such impacts. Her recent work focuses on applying smartphone technology to collect continuous, real-time, and high-precision data on individual activity-travel behavior, as well as developing and advancing best practices to transit corridor planning. She is the McKnight Land-Grant Professor, a special award that honors the University of Minnesota's most promising junior faculty. She has a Ph.D. in City and Regional Planning from the University of North Carolina at Chapel Hill and a bachelor's degree in Transportation Engineering from Southeast University, Nanjing, China.

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Dr. Feron is the Dutton-Ducoffe Professor of Aerospace Engineering at the Georgia Institute of Technology (Georgia Tech), where he directs the Decision and Control Laboratory. Prior to that, he was a professor at the Massachusetts Institute of Technology (MIT) for 12 years. He has B.S., M.S., and Ph.D. degrees from Ecole Polytechnique and Ecole Normale Supérieure in France and from Stanford University. His interests are to use fundamental concepts of control systems, optimization, and computer science to address important problems in aerospace engineering. He has published three books and several research papers and has been recognized for his work on autonomous aerobatic helicopter flight, human drowsiness and its impact on driver safety, airport departure metering for “green” operations and, recently, credible autocoding for safety-critical cyber physical systems.

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Dr. Francis is a Senior Transportation Specialist at the Florida DOT and oversees the Transportation Data Management Program, the Linking Planning AND Operations Initiative, and the use of real-time data for transportation planning and traffic operations. He was the ITS Program Development Manager with Virginia DOT, overseeing ITS Strategic Planning and Deployment of New Technologies such as active traffic management and integrated corridor management technologies on major corridors to manage congestion. He received the Extraordinary Contributor award from the Virginia DOT and the Employee of the Year award by the Florida DOT. He has bachelor's, master's, and Ph.D. degrees in Civil Engineering and more than 25 of progressive experience in transportation infrastructure development. His professional interests include promoting knowledge sharing and technology transfer internationally.

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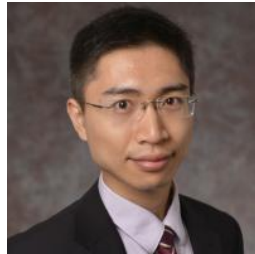
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Conference Speakers & Organizers

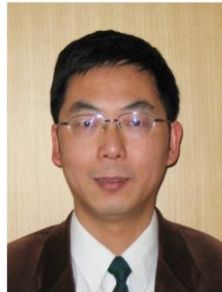
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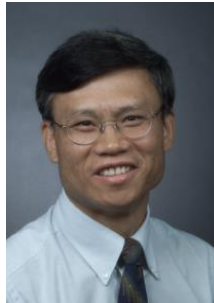
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Dr. NING is a Fellow of IEEE, a Fellow of the Association of International Railway Signaling Engineers (IRSE); a Fellow of The Institute of Engineering and Technology(IET); a Fellow of China Railway Society; the Deputy Director of China Traffic System Engineering Society; the Deputy Director of Beijing Railway Society; a Member of China Overseas Returned Scholars Association; a Member of the editorial board of the Journal of Railways in China; the Chair of the Technical Committee on Railroad Systems and Applications (RSA) of IEEE Intelligent Transportation Systems Society; an Associate Editor of IEEE Transaction on Intelligent Transportation Systems (2010-2014).

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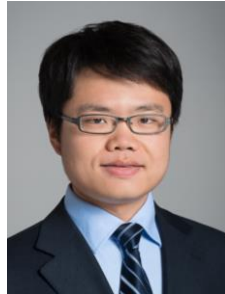
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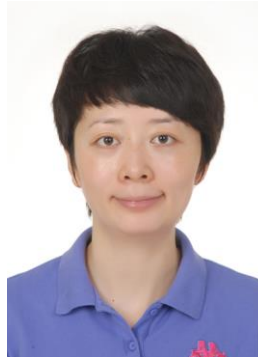
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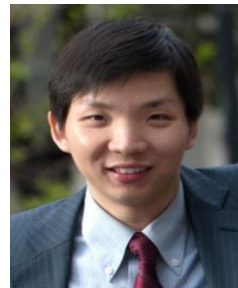
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Dr. Tang Tao is director of State Key Laboratory of Rail Traffic Control and Safety. From 2001, as a member of expert group, he participate to research CTCS (Chinese Train Control System) specification for the Chinese Ministry of Railways. The Function Specification of CTCS-L3 and the system requirement of CTCS-L3 is established by the expert group. The train control system for Chinese high speed railway which is under construction is developed according to the specification. As research project leader, a communication based on train control (CBTC) system was developed according to international safety standards by his research group. The system has been used in Beijing, Changsha, and Shenzhen. And then as a team leader, the Chinese CBTC system requirement specification as national standard have been constituted. Recently years he also researched the safety assurance technology for the railway signal system and the automated metro technology.

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Dr. Wang has 30 years of experience in transportation management systems, including ITS architecture, traffic information collection and application, and electronic toll collection systems. He is the design team leader of the China ITS architecture, national highway ETC system, and national expressway monitoring system and was awarded a gold medal at the World Exhibition of Young Inventors, sponsored by WIPO in 1991 and MOC First Prize of Science and Technology Progress. He is the Vice Chairman of China Intelligent Transport Systems Association (ITS China) and a professor and tutor of a Ph. D. student at China Southeast University.

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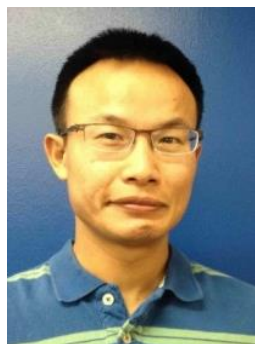


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Conference Speakers & Organizers

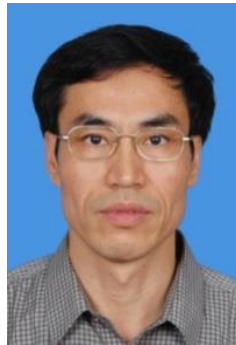
Shengying YU



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Mr. Shengying Yu is the Deputy Director General at Department of Planning, Ministry of Transport. Over the years, he has been responsible for transportation planning and making policies covering many subsectors including: Water Transport Safety Regulation, Transport Planning in Destitute Areas, Modern Logistics Development, Transport Development Index System towards A Well-off Society, Bohai Regional Transport Development Strategy, Promoting New Pattern Urbanization through transport development, and Transport Financing System. Most recently, Mr. Yu has been coordinating the establishment of '*Integrated Transport Planning for Collaborative Development of Jingjinji*', and '*Comprehensive Thirteen's Five-year Transport Development Plan*'. Mr. Yu holds a Master Degree in Transportation Planning & Management from Wuhan University of Technology.

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Professor Yu is Chair Professor at the School of Engineering at Sun Yat-Sen University, China. He joined SYSU as a full professor in 2000 and is the founding dean of the School of Engineering and the founding director of the ITS Research Center and the Guangdong Provincial Key Laboratory of ITS. He has more than 15 years of professional experience in systematically developing ITS. In addition to transportation research, he is interested in renewable energy and urban environments, including traffic emissions and noise and carbon trading.

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Dr. Zhang directs the National Center for Strategic Transportation Policies, Investments, and Decision at the University of Maryland, one of the five National Transportation Centers in the U.S.. He has published more than 200 peer-reviewed journal and conference papers on topics including land use-transportation planning, transportation economics, travel behavior, demand modeling, transportation systems management and operations, and emerging technologies. He has received more than \$16 million in external research funding support and is a member of four TRB committees, Secretary General of the World Society on Transport and Land Use Research, and Vice President of the COTA. He is a recipient of a prestigious NSF CAREER Award and the TRB Fred Burggraf Award.

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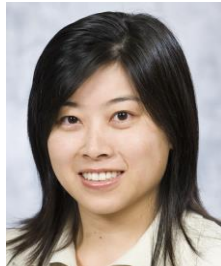
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Mr. Zhang joined UC-Berkeley in 1987 and participated in the early founding of PATH Program. His research covers all spectrums of ITS. He was the Technical Director of National Automated Highway Systems Consortium, a \$210 million national program led by the USDOT and General Motors. He later managed the Congressionally-mandated technical feasibility demonstration of Automated Highway Systems in 1997. Since 1997, he has played a critical role in transforming PATH to an entrepreneurial multi-faceted applied research organization, delivering many internationally-renowned ITS research projects. He is a member of ITS American International Council and was the Chair of ITS America's China Committee. He is currently the Vice President for Conferences of the IEEE ITS Society and was a founder for North America Chinese Transportation Association (NOCOTA, now COTA).

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Conference Speakers & Organizers

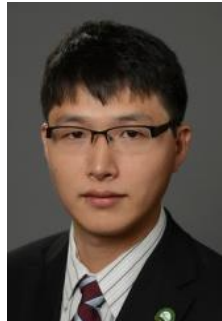
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Post-CICTP2015 Events

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The International Symposium on Public Transportation

Tuesday, July 28, 2015

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The 2015 International Workshop on Sustainable Urban Transportation

August 1, 2015

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