



**CICTP 2016**

The 16<sup>th</sup> COTA International Conference of  
Transportation Professionals

第十六届 COTA 国际交通科技年会

**Theme: Green and Multimodal Transportation and Logistics**

July 6-9, 2016



Shanghai, China



**Green and Multimodal  
Transportation and Logistics**

**CICTP<sup>2016</sup>**

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## 绿色多方式的交通与物流

**Green and Multimodal Transportation and Logistics**

## Welcome Remarks

It is our great pleasure to welcome you all to the 16<sup>th</sup> COTA International Conference of Transportation Professionals (CICTP 2016) in Shanghai, China. CICTP2016 is jointly organized by Chinese Overseas Transportation Association (COTA) and Beijing Jiaotong University. The CICTP series, formerly ICCTP (International Conference of Chinese Transportation Professionals), is established by COTA and sponsored by American Society of Civil Engineers (ASCE) and the National Natural Science Foundation of China (NSFC), Transportation Research Board (TRB) of the US National Academies.

We are pleased to announce that CICTP2016 received a large number of high-quality technical contributions: among the more than 500 submissions, a total of 216 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 “Green and Multimodal Transportation and Logistics”, the papers in the CICTP2016 proceedings address a wide range of topics and shall greatly enrich the literature and knowledge in the field. At this event we will issue a good number of awards to recognize those who make an excellent contribution to this conference, including Best Papers, Outstanding Area Editors, and Outstanding English Editing Chairs. We also issue a COTA lifetime award to a widely-recognized figure to acknowledge and recognize his or her dedication to the development of education, research and practice of transportation engineering in China.

CICTP2016, the largest transportation conference in China, has attracted more than 700 participants domestically and internationally, who come from mainland China, the United States of America, United Arab Emirates, Hong Kong, Taiwan, Greece, Singapore, Australia, United Kingdom, Germany, Korea, Belgium, Switzerland and New Zealand. Nearly thirty conference sessions such as plenary, spotlight, honored invited, and technical sessions, as well as special forums are organized this year. The Executive and Organizing Committees of CICTP2016 have invited more than 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 30 other internationally well-recognized researchers and engineers are also invited to present their recent research findings at COTA invited sessions.

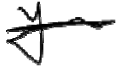
Other special forums will be focused on issues that are of great interest to the audience of various backgrounds, including Meeting with Editors-in-Chief, International Forum of Discipline Research and Education of Traffic Information and Control Engineering, the World Bank Transportation Development Forum, Dean Forum for Chinese University Transportation Schools, and Young Scholars Forum.

On behalf of the CICTP2016 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 the Shanghai Maritime University, the members of COTA and its Board of Directors for their generous support and offering their invaluable time and expertise. Finally, we also wish to thank all conference committee members, sponsors, invited speakers, session chairs, and staff members and volunteers for their hard work and great efforts that make CICTP2016 a great success.

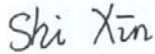
The CICTP series have been an excellent platform for information exchange, experience sharing, and professional networking over the past ten years. We hope that you will enjoy the technical and social content of this year's conference and that you will also find time to take pleasure in the sights of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

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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.



**Shanghai Maritime University (SMU)** is a multi-disciplinary university that encompasses such areas as engineering, management, economics, law, liberal arts, and science, with a special emphasis on shipping technology, economics and management. Chinese maritime education originated at Shanghai and grew out of the Shipping Section of Shanghai Industrial College founded in 1909 (towards the end of the Qing Dynasty). SMU was established by the Ministry of Communications in 1959. According to the university layout adjustment in Shanghai, and for better service of construction of Shanghai international shipping center, Lingang new campus inaugurated in 2008.

At present, the university runs 2 post-doctoral research stations, 19 doctoral programs, 59 master's degree programs, 45 bachelor's degree programs, and 10 associate degree programs. SMU boasts 10 provincial and municipal key research institutes and laboratories, 1 state-level key discipline, 5 state-level specialties with special features, 9 ministerial or municipal key disciplines, and 17 Shanghai municipal "educational heights". SMU owns an aquatic training center, the Yufeng Ship, a 10-thousand-ton container ship for teaching and internship training, and a newly-built 48-thousand-ton Yangtze handymax bulk carrier for teaching and internship training ship, named Yuming ship.

SMU presently consists of Merchant Marine College, College of Transport and Communications, School of Economics & Management, College of Logistics Engineering (Sino-Dutch Mechanical and Electronic Engineering College), Law School, College of Information Engineering, College of Foreign Languages, College of Ocean Science and Engineering, College of Arts and Sciences, Scientific Research Academy, etc. SMU has over 20,000 full-time students, of whom over 17,000 are undergraduates and over 3,000 are postgraduate students. Of the over 1,000 full-time teachers, 150 are professors and 58 percent hold a doctorate. Over the past decades, the university has produced specialists of various types at various levels for the country's shipping industry. The graduated students are employed in shipping companies, port enterprises and government institutions. Deservedly, SMU has been honored as a "cradle of international shipping specialists".

SMU has always attached much importance to exchange and cooperation with overseas academies, institutions and industry companies, and has established close ties with over 70 institutions in aspects of teacher communication, joint school-running, scientific research cooperation, students exchange, etc, and close contacts with international noted shipping organization/institution, (e.g.) International Maritime Organization, The Baltic and International Maritime Council, Classification society in Norway. SMU has opened up "international class", which attracts students of maritime institutions in USA, Korea, Poland, Russia, German, Ukraine, etc. Approved by the Education Ministry of China in 2011, the Bachelor of Science program in Logistics Management, offered by Shanghai Maritime University in collaboration with Regional Maritime University is open to applicants from Central and West Africa, which is the pioneering overseas program that can be awarded Chinese bachelor's degree among Shanghai universities. Since 2012, SMU is approved to accept the Chinese Government Scholarship students, which will be more conducive to promoting the process of internationalization of SMU.

## College of Transport and Communications 交通运输学院

The College of Transport and Communications of SMU is one of the first colleges in China that offer education in transportation engineering and provide master-level programs. The rich experience it has gained in talent nurturing, research and community services during the past five decades has made it one major base for the education and research of transportation and communications with a focus on operations, planning and management of ports and shipping in China.

The College provides a complete discipline system offering undergraduate, master's and doctoral programs. It is entitled to award PhD degrees in Transport Planning and Management while operating two master's programs, respectively, in Transportation Engineering and in Transportation Planning and Management. It offers four bachelor programs respectively in Transportation focusing on port operations and management, International Shipping Management, Logistics Management and Traffic Engineering. The college has about 2400 undergraduate students and more than 300 post-graduate students. Our faculty members publish their work in a variety of journals, including *Transportation Science*, *Transportation Research Parts A-E*, *Maritime Policy and Management*, *Journal of Navigation*, etc.

The College has a well-acknowledged international reputation. In the past decade, we have set up a number of joint degree programs with World Maritime University (MSc in International Transportation and Logistics), with Ghana-based Regional Maritime University (BSc in Logistics Management), and with the University of West Australia (MSc in Logistics Management and Engineering, ceased in 2013). We also established a good number of exchange student programs with 20+ universities in Northern America, U.K., Mainland Europe, Middle Asia, etc. We receive postgraduate students for degrees from all over the world. In addition to joint educational programs, a series of collaborative research projects have started and this college also hosts well-established international conferences. Furthermore, we have established solid collaborative relationship with many international organizations or funding bodies, including Cornell University, University College London, University of Florida, Korean Chung-Ang University, etc via joint research projects. Currently, we hold the chair-ship of International Maritime Lecturers Association (IMLA).

The overall goal of SMU is to be a world-class maritime university by 2020. To achieve this goal, the College makes all efforts to carry out talent training, research and community services for excellence to support both national and local strategies or key demand, such as Shanghai International Shipping Center Strategy, National "One-Belt-One-Road" Initiative, North Pole Route Development, Economic Belt along the Yangtze River, etc. We make the most of latest technologies, such as smart detection, big data, Internet, clean energy, complex networks, information and electronic science to respond to the modern times' call for safe, efficient, green and transparent transportation systems.

## **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.

Program at a Glance

| Time      | Tuesday,<br>July 5, 2016                                        | Wednesday,<br>July 6, 2016                                                                                                                                                                                                                                                                                  | Thursday,<br>July 7, 2016                                                                                                                                                                                                                                                                                                                                  |
|-----------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Morning   |                                                                 | <div>Registration (Crowne Plaza 1F)<br/>8:15 – Noon</div> <div>Deans' Forum for Transportation Schools I<br/>(SMU Admin Building)<br/>8:15 – noon</div> <div>Young Scholars Forum I<br/>(SMU Campus)<br/>8:15 – noon</div>                                                                                  | <div>Registration<br/>7:30 – noon</div> <div>Opening Ceremony<br/>(SMU Auditorium)<br/>8:15 – 9:20</div> <div>Coffee/Tea Break<br/>9:20 – 10:00</div> <div>Plenary Session I<br/>(SMU Auditorium)<br/>10:00 – noon</div>                                                                                                                                   |
|           |                                                                 | Lunch (Invitation Only)                                                                                                                                                                                                                                                                                     | Lunch Buffet                                                                                                                                                                                                                                                                                                                                               |
|           |                                                                 |                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                            |
| Afternoon | <div>Registration<br/>(Crowne Plaza 1F)<br/>13:30 – 21:00</div> | <div>Registration (Crowne Plaza 1F)<br/>13:30 – 21:00</div> <div>Deans' Forum for Transportation Schools II<br/>(SMU Admin Building)</div> <div>Young Scholars Forum II<br/>(SMU Campus)<br/>13:30 – 17:30</div> <div>Workshop on Introductions to Transportation Models and Applications 13:30-17:30</div> | <div>Plenary Session II<br/>14:00 – 15:50</div> <div>Special Session I: New Technologies &amp; Challenges in Maritime Transportation<br/>14:00 – 15:50</div> <div>Coffee/Tea Break (15:50 – 16:10)</div> <div>Lloyd's Register Foundation Session I &amp; Spotlight Session I<br/>16:10 – 18:00</div> <div>Technical Sessions I-VI<br/>16:10 – 18:00</div> |
|           |                                                                 |                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                            |
|           |                                                                 |                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                            |
| Evening   |                                                                 | VIP Welcome Dinner (Invitation Only)<br>18:00 – 20:30                                                                                                                                                                                                                                                       | COTA 20th Anniversary Celebration<br>18:00 – 20:30                                                                                                                                                                                                                                                                                                         |

## Program at a Glance

| Time      | Friday,<br>July 8, 2016                                                                                                    | Saturday,<br>July 9, 2016                                                              |
|-----------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Morning   | Registration<br>7:30 – noon                                                                                                | Plenary Session V<br>8:00 – 9:50                                                       |
|           | Plenary Session III<br>8:00 – 9:50                                                                                         | The 7 <sup>th</sup> COTA-World Bank China<br>Transport Forum<br>8:30 – noon            |
|           | Smart-City-Driven Traffic Information<br>Technology and Control Engineering<br>Discipline Development Forum<br>8:00 – noon | Special Session III: Joint International<br>Practice 8:00 – 9:50                       |
|           | Coffee/Tea Break (9:50 – 10:10)                                                                                            | Coffee/Tea Break (9:50 – 10:10)                                                        |
|           | Spotlight Session II & III<br>10:10 – noon                                                                                 | Lloyd's Register Foundation Session II<br>& Spotlight Session VI & VII<br>10:10 – noon |
|           | Technical Sessions VII-X<br>10:10 – noon                                                                                   | Technical Sessions XIV-XVII<br>10:10 – noon                                            |
| Noon      | Lunch Buffet                                                                                                               | CICTP Awards and Closing Ceremony<br>& Farewell Luncheon<br>12:10 – 14:30              |
| Afternoon | Plenary Session IV<br>14:00 – 15:50                                                                                        |                                                                                        |
|           | Transportation Practitioner's Forum on<br>Case Studies of Intersection Safety<br>Improvements<br>14:00 – noon              |                                                                                        |
|           | Coffee/Tea Break (15:50 – 16:10)                                                                                           |                                                                                        |
|           | Spotlight Session IV & V<br>16:10 – 18:00                                                                                  |                                                                                        |
|           | Special Session II: "Meet the EIC"<br>16:10 – 18:00                                                                        |                                                                                        |
|           | Technical Sessions XI-XIII<br>16:10 – 18:00                                                                                |                                                                                        |
| Evening   | Conference Buffet Dinner<br>18:00 – 20:30                                                                                  |                                                                                        |

**TUESDAY, JULY 5, 2016**

|               |                     |                     |
|---------------|---------------------|---------------------|
| 13:30 – 21:00 | <b>REGISTRATION</b> | <b>AREA A LOBBY</b> |
|---------------|---------------------|---------------------|

**WEDNESDAY, JULY 6, 2016**

|               |                     |                     |
|---------------|---------------------|---------------------|
| 8:30 – noon;  | <b>REGISTRATION</b> | <b>AREA A LOBBY</b> |
| 13:30 – 21:00 |                     |                     |

|               |                                                                                                                                                                                    |                                          |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| 8:15 – 12:05  | <b>DEANS' FORUM FOR TRANSPORTATION SCHOOLS I (SMU CAMPUS)</b><br>Moderator: Dr. Ying-En Ge, Professor & Dean, College of Transport & Communications, Shanghai Maritime University  | <b>Room 128, Admin Building</b>          |
| 8:15 – 12:05  | <b>YOUNG SCHOLARS FORUM ON TRANSPORTATION RESEARCH AND EDUCATION I (SMU CAMPUS)</b><br>Moderator: Dr. Zheng Wan, Associate Professor, Shanghai Maritime University                 | <b>Room 115, Jiaoyun Building</b>        |
| Noon          | <b>LUNCH (SMU CAMPUS)</b>                                                                                                                                                          | <b>Hailian Building</b>                  |
| 13:30 – 17:30 | <b>DEANS' FORUM FOR TRANSPORTATION SCHOOLS II (SMU CAMPUS)</b><br>Moderator: Dr. Ying-En Ge, Professor & Dean, College of Transport & Communications, Shanghai Maritime University | <b>Room 128, Admin Building</b>          |
| 13:30 – 17:30 | <b>YOUNG SCHOLARS FORUM ON TRANSPORTATION RESEARCH AND EDUCATION II (SMU CAMPUS)</b><br>Moderator: Dr. Zheng Wan, Associate Professor, Shanghai Maritime University                | <b>Room 115, Jiaoyun Building</b>        |
| 13:30 – 17:30 | <b>WORKSHOP ON INTRODUCTIONS TO TRANSPORTATION MODELS AND APPLICATIONS (SMU CAMPUS)</b><br>Moderator: Dr. Jia-Hao Wu, Professor, Shanghai Maritime University                      | <b>Conference Hall, Jiaoyun Building</b> |
| 18:00 – 20:30 | <b>VIP WELCOME DINNER (SMU CAMPUS)</b>                                                                                                                                             | <b>Hailian Building</b>                  |

## THURSDAY, JULY 7, 2016

|               |                                                                                                                                                                             |                         |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 07:30 – noon  | <b>REGISTRATION</b>                                                                                                                                                         | <b>AREA A<br/>LOBBY</b> |
| 08:15 – 9:20  | <b>OPENING CEREMONY (SMU CAMPUS)</b><br>Moderator: Dr Wei Yan, Professor & Vice President, Shanghai Maritime University                                                     | <b>AUDITORIUM<br/>S</b> |
| 09:20 – 10:00 | <b>COFFEE/TEA BREAK &amp; PHOTOGRAPHING</b>                                                                                                                                 | <b>AUDITORIUM</b>       |
| 10:00 – noon  | <b>PLENARY SESSION I: EFFICIENT AND GREEN TRANSPORTATION</b><br>Chair: Dr. Yafeng Yin, Conference Chair, Professor, University of Florida                                   | <b>AUDITORIUM</b>       |
| Noon          | <b>LUNCH</b>                                                                                                                                                                |                         |
| 14:00 – 15:50 | <b>PLENARY SESSION II: FRONTIERS IN TRANSPORTATION TECHNOLOGIES AND MANAGEMENT</b><br>Chair: Dr. Yu Zhang, COTA President, Associate Professor, University of South Florida | <b>BALLROOM2</b>        |
| 14:00 – 15:50 | <b>SPECIAL SESSION I: NEW TECHNOLOGIES &amp; CHALLENGES IN MARITIME TRANSPORTATION</b><br>Chair: Dr. Ying-En Ge, Professor, Shanghai Maritime University                    | <b>BALLROOM1</b>        |
| 15:50 – 16:10 | <b>COFFEE/TEA BREAK</b>                                                                                                                                                     | <b>AREA A<br/>LOBBY</b> |
| 16:10 – 18:00 | <b>LLOYD'S REGISTER FOUNDATION SESSION I: TRANSPORTATION MODELING FOR ENVIRONMENTAL IMPROVEMENT</b><br>Chair: Dr. Yafeng Yin, Professor, University of Florida              | <b>BALLROOM2</b>        |
| 16:10 – 18:00 | <b>SPOTLIGHT SESSION I: NEW TECHNIQUES FOR TRANSPORTATION IMPROVEMENT</b><br>Chair: Dr. Dongyuan Yang, Professor, Tongji University                                         | <b>BALLROOM1</b>        |
| 16:10 – 18:00 | <b>TECHNICAL SESSION I: INTELLIGENT TRANSPORTATION SYSTEMS - A</b><br>Chair: Dr. Jian Sun, Professor, Tongji University                                                     | <b>BALLROOM3</b>        |
| 16:10 – 18:00 | <b>TECHNICAL SESSION II: LOGISTICS AND FREIGHT TRANSPORTATION</b><br>Chair: Dr. Zhihua Hu, Professor, Shanghai Maritime University                                          | <b>Rotterdam</b>        |
| 16:10 – 18:00 | <b>TECHNICAL SESSION III: NETWORK AND TRAFFIC FLOW - A</b><br>Chair: Dr. Jiancheng Long, Professor, Hefei University of Technology                                          | <b>Singapore</b>        |
| 16:10 – 18:00 | <b>TECHNICAL SESSION IV: ROAD TRAFFIC OPERATIONS, MANAGEMENT, AND CONTROL</b><br>Chair: Dr. Rui Jiang, Professor, Beijing Jiaotong University                               | <b>Hong Kong</b>        |
| 16:10 – 18:00 | <b>TECHNICAL SESSION V: TRAFFIC SAFETY, SECURITY AND EMERGENCY RESPONSES</b><br>Chair: Dr. Xuesong Wang, Professor, Tongji University, Shanghai                             | <b>Marseilles</b>       |
| 16:10 – 18:00 | <b>TECHNICAL SESSION VI: TRANSPORTATION POLICY, PLANNING AND MODELING -A</b><br>Chair: Dr. Zhe Liang, Professor, Tongji University                                          | <b>Antwerp</b>          |
| 18:00 – 20:30 | <b>COTA 20TH ANNIVERSARY CELEBRATION DINNER</b>                                                                                                                             | <b>AREA B</b>           |

## FRIDAY, JULY 8, 2016

|               |                                                                                                                                                                 |                               |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| 07:30 – noon  | <b>REGISTRATION</b>                                                                                                                                             | <b>AREA A<br/>LOBBY</b>       |
| 08:00 – 9:50  | <b>PLENARY SESSION III: SUSTAINABLE LOGISTICS AND FREIGHT SYSTEM</b><br>Chair: Dr. Xiaokun (Cara) Wang, Assistant Professor, Rensselaer Polytechnic Institute   | <b>BALLROOM2</b>              |
| 08:00 – noon  | <b>SMART-CITY-DRIVEN TRAFFIC INFORMATION TECHNOLOGY AND CONTROL<br/>ENGINEERING DISCIPLINE DEVELOPMENT FORUM</b>                                                | <b>BALLROOM3</b>              |
| 09:50 – 10:10 | <b>COFFEE/TEA BREAK</b>                                                                                                                                         | <b>AREA A<br/>LOBBY</b>       |
| 10:10 – noon  | <b>SPOTLIGHT SESSION II: NETWORK MODELING AND ANALYSIS</b><br>Chair: Dr. Jia Shu, Professor, Southeast University, Nanjing, China                               | <b>BALLROOM2</b>              |
| 10:10 – noon  | <b>SPOTLIGHT SESSION III: TRANSPORTATION PLANNING AND URBAN DEVELOPMENT</b><br>Chair: Dr. Zhongzheng Yang, Professor, Dalian Maritime University                | <b>BALLROOM1</b>              |
| 10:10 – noon  | <b>TECHNICAL SESSION VII: TRAFFIC SAFETY, SECURITY AND EMERGENCY RESPONSES</b><br>Chair: Dr. Helai Huang, Professor, South-Central University, Changsha, China  | <b>Rotterdam</b>              |
| 10:10 – noon  | <b>TECHNICAL SESSION VIII: ROAD TRAFFIC OPERATIONS, MANAGEMENT, &amp; CONTROL -A</b><br>Chair: Dr. Lihua Luo, Assistant Professor, Shanghai Maritime University | <b>Singapore</b>              |
| 10:10 – noon  | <b>TECHNICAL SESSION IX: PUBLIC TRANSIT</b><br>Chair: Dr. Kai Liu, Associate Professor, Dalian University of Technology                                         | <b>Hong Kong</b>              |
| 10:10 – noon  | <b>TECHNICAL SESSION X: NETWORK AND TRAFFIC FLOW - B</b><br>Chair: Dr. Wei Liu, Professor, Shanghai Maritime University                                         | <b>Marseilles</b>             |
| Noon          | <b>LUNCH</b>                                                                                                                                                    | <b>AREA B<br/>CAFÉ BISTRO</b> |
| 14:00 – 15:50 | <b>PLENARY SESSION IV: TRANSPORTATION PLANNING: RETROSPECT AND PROSPECT</b><br>Chair: Dr. Lei Zhang, Professor, University of Maryland                          | <b>BALLROOM2</b>              |
| 14:00 – 18:00 | <b>TRANSPORTATION PRACTITIONER FORUM: CASE STUDIES OF INTERSECTION SAFETY<br/>IMPROVEMENTS</b>                                                                  | <b>BALLROOM3</b>              |
| 15:50 – 16:10 | <b>COFFEE/TEA BREAK</b>                                                                                                                                         | <b>AREA A<br/>LOBBY</b>       |
| 16:10 – 18:00 | <b>SPOTLIGHT SESSION IV: PAVEMENT AND MATERIALS ENGINEERING</b><br>Chair: Dr. Wuguang Lin, Assistant Professor, Shanghai Maritime University                    | <b>BALLROOM2</b>              |
| 16:10 – 18:00 | <b>SPOTLIGHT SESSION V: TRANSPORTATION PLANNING AND ADVANCED MODELING</b><br>Chair: Dr. Yingling Fan, Associate Professor, University of Minnesota              | <b>BALLROOM1</b>              |
| 16:10 – 18:00 | <b>SPECIAL SESSION II: MEET THE EDITOR-IN-CHIEF</b><br>Moderator: Dr. Sean Qian, Assistant Professor, Carnegie Mellon University                                | <b>Rotterdam</b>              |
| 16:10 – 18:00 | <b>TECHNICAL SESSION XI: NON-MOTORIZED TRANSPORTATION</b><br>Chair: Dr. Chaozhong Wu, Professor, Wuhan University of Technology                                 | <b>Singapore</b>              |
| 16:10 – 18:00 | <b>TECHNICAL SESSION XII: INTELLIGENT TRANSPORTATION SYSTEMS-B</b>                                                                                              | <b>Hong Kong</b>              |

## Program Content

|               |                                                                                                                                   |                               |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
|               | Chair: Dr. Feng Xiao, Professor, Southwestern University of Finance and Economics                                                 |                               |
| 16:10 – 18:00 | <b>TECHNICAL SESSION XIII: MARITIME TRANSPORTATION</b><br>Chair: Dr. Yang Chen, Associate Professor, Shanghai Maritime University | <b>MARSEILLES</b>             |
| 18:00 – 20:30 | <b>CONFERENCE BUFFET</b>                                                                                                          | <b>AREA B<br/>CAFÉ BISTRO</b> |

## SATURDAY, JULY 9, 2016

|               |                                                                                                                                                                          |                         |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 08:00 – 9:50  | <b>PLENARY SESSION V: TRANSPORTATION FOR THE FUTURE</b><br>Chair: Dr. Jun Zhan, Professor, Shanghai Maritime University                                                  | <b>BALLROOM2</b>        |
| 08:00 – 9:50  | <b>SPECIAL SESSION III: JOINT INTERNATIONAL PRACTICE</b><br>Moderator: Dr. Jia-Hao Wu, Professor, Shanghai Maritime University                                           | <b>BALLROOM3</b>        |
| 08:30 – noon  | <b>THE 7TH COTA-WB CHINA TRANSPORTATION FORUM: INTERMODAL FREIGHT<br/>TRANSPORTATION IN CHINA AND AROUND THE WORLD</b>                                                   | <b>BALLROOM1</b>        |
| 09:50 – 10:10 | <b>COFFEE/TEA BREAK</b>                                                                                                                                                  | <b>AREA A<br/>LOBBY</b> |
| 10:10 – noon  | <b>SPOTLIGHT SESSION VI: ADVANCED TRANSPORTATION TECHNOLOGIES</b><br>Chair: Dr. Asad J. Khattak, Professor, University of Tennessee                                      | <b>BALLROOM3</b>        |
| 10:10 – noon  | <b>SPOTLIGHT SESSION VII: INTELLIGENT TRAFFIC CONTROL AND MANAGEMENT</b><br>Chair: Dr. Wenlong Jin, Associate Professor, University of California at Irvine              | <b>Rotterdam</b>        |
| 10:10 – noon  | <b>TECHNICAL SESSION XIV: MULTIMODAL TRANSPORTATION AND LOGISTICS</b><br>Chair: Dr. Shun Chen, Associate Professor, Shanghai Maritime University                         | <b>BALLROOM2</b>        |
| 10:10 – noon  | <b>TECHNICAL SESSION XV: TRANSPORTATION POLICY, PLANNING AND MODELING -B</b><br>Chair: Dr. Shanjian Zhu, Assistant Professor, George Mason University                    | <b>Singapore</b>        |
| 10:10 – noon  | <b>TECHNICAL SESSION XVI: RAIL OPERATIONS, MANAGEMENT AND CONTROL</b><br>Chair: Dr. Renrong Guo, Professor, Inner Mongolia University                                    | <b>Hong Kong</b>        |
| 10:10 – noon  | <b>TECHNICAL SESSION XVII: ROAD TRAFFIC OPERATIONS, MANAGEMENT &amp; CONTROL –B</b><br>Chair: Dr. Meng Xu, Professor, Beijing Jiaotong University                        | <b>Marseilles</b>       |
| 10:10 – noon  | <b>LLOYD'S REGISTER FOUNDATION SESSION II: TRANSPORTATION ENERGY, ENVIRONMENT<br/>AND SUSTAINABILITY</b><br>Chair: Dr. Lihui Zhang, Assistant Prof., Zhejiang University | <b>Antwerp</b>          |
| 12:10 – 14:30 | <b>CICTP BEST AWARDS AND CLOSING CEREMONY &amp; FAREWELL LUNCHEON</b>                                                                                                    | <b>BALLROOM2</b>        |

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**Program**



# Wednesday, July 6

## Deans' Forum for Transportation Schools

8:00-18:00

**Moderator: Dr. Ying-En Ge, Professor & Dean, College of Transport & Communications, Shanghai Maritime University**

**Room 128, Admin Building  
Shanghai Maritime University  
Campus**

### Opening Remarks

Room 128, Admin Building

8:15 – 8:45

Welcome message from SMU

Welcome message from COTA

Group Photographing

### Session A: Talents Cultivation, chaired by Prof. Xin Shi, Vice President of Shanghai Maritime University

Room 128, Admin Building

8:45 – 9:05

Crossover, fusion and development of "Traffic Information Engineering and Control" subject  
*Dr. Zhengxi Li, Professor & Past Vice President, North China University of Technology*

9:05 – 9:25

Some thoughts on key issues in engineering education

*Dr. Hongzhi Guan, Professor, Beijing University of Technology*

9:25 – 9:45

First-class young transportation faculty training

*Dr. Jian (John) Lu, Professor & Dean, School of Transportation Engineering, Tongji University*

9:45 – 10:05

"One-Belt-One-Road" Initiative and high-end talent cultivation

*Dr. Jinsong Zhao, Professor & Dean, International Shipping Law School, East China University of Political Science & Law*

10:05-10:25

Coffee/Tea Break

### Session B: "Stones From Other Hills", chaired by Prof GE, Ying-En

Room 128, Admin Building

10:25 – 10:50

Toward the development of a world-class Transportation Education

*Dr. Hong K. Lo, Head and Chair Professor, Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology, Hong Kong*

10:50 – 11:15

Project Mingde: Experiential Learning Initiative for New Generation of Engineers

*Dr. S.C. Wong, Chair Professor and Head, Department of Civil Engineering, The University of Hong Kong, Pokfulam Road, Hong Kong*

11:15 – 11:40

Introduction of education of shipping management talent cultivation in Taiwan

*Dr. Kevin Hsu, Professor & Dean, College of Management, Kaoshiung Marine University*

11:40 - 12:05

Recent and future development of civil engineering in the Hong Kong Polytechnic University

*Dr. William H.K. Lam, Chair Professor & Head, Department of Civil & Environmental Engineering, The Hong Kong Polytechnic University*

12:05-13:30

Lunch Break

## Wednesday, July 6

| <b>Session C1: Undergraduate Education, chaired by Professor Hongzhi Guan</b> <b>Room 207, Jiaoyun Building</b>          |                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13:30 – 13:50                                                                                                            | Some thoughts on cultivation of interdisciplinary Traffic Engineering Talents from the perspective of Tsinghua University<br><i>Dr. Huapu Lu, Professor, Tsinghua University</i>                                                                    |
| 13:50 – 14:10                                                                                                            | Background requirements to succeed in traffic information and control study for college students<br><i>Dr. Ping Yi, Professor, University of Akron</i>                                                                                              |
| 14:10 – 14:30                                                                                                            | A history of transportation engineering in Southeast University and a plan for the future of it<br><i>Dr. Pan Liu, Professor &amp; Dean, School of Transportation, Southeast University</i>                                                         |
| 14:30 – 14:50                                                                                                            | An exploration of training methods for students' success by Diversification and Unity<br><i>Dr. Xiaobo Liu, Professor &amp; Dean, School of Transportation &amp; Logistics, Southwest Jiaotong University</i>                                       |
| 14:50 - 15:10                                                                                                            | Special Characteristics in our Traffic Management program<br><i>Dr. Jun Ma, Deputy Dean, School of Traffic Management, People's Public Security University of China</i>                                                                             |
| 15:10 - 15:30                                                                                                            | Cultivation of shipping talents in Shanghai Maritime University<br><i>Dr. Ming Sun, Associate Professor &amp; Deputy Dean (Teaching), College of Transport &amp; Communications, Shanghai Maritime University</i>                                   |
| <b>Session C2: Establishing Disciplinary Specialties, chaired by Prof Yunpeng Wang</b> <b>Room 209, Jiaoyun Building</b> |                                                                                                                                                                                                                                                     |
| 13:30 – 13:50                                                                                                            | Cultivating specialties of shipping-focused transportation management in Dalian Maritime University<br><i>Dr. Zhihong Jin, Professor &amp; Dean, Transportation Management College, Dalian Maritime University</i>                                  |
| 13:50 – 14:10                                                                                                            | Science and subject: some experience in the development of transportation engineering in Sun Yat-sen University<br><i>Dr. Zhi Yu, Professor, Sun Yat-sen University</i>                                                                             |
| 14:10 – 14:30                                                                                                            | Establishing disciplinary specialties in DMU Collaborative Innovation Center for Transport Studies<br><i>Dr. Haibo Kuang, Professor &amp; Executive Director, Collaborative Innovation Center for Transport Studies, Dalian Maritime University</i> |
| 14:30 – 14:50                                                                                                            | Some thoughts on characteristics and directions of "Traffic Information Engineering and Control" Subject<br><i>Dr. Dianhai Wang, Professor, Zhejiang University</i>                                                                                 |
| 14:50 - 15:10                                                                                                            | An overview of SIT School of Road Transportation<br><i>Dr. Daolai Cheng, Professor, School of Road Transportation, Shanghai Institute of Technology</i>                                                                                             |
| 15:10 - 15:30                                                                                                            | Innovative reforming and practice of research and postgraduate cultivation in the context of maritime transportation in our college<br><i>Dr. Hao Han, Professor &amp; Deputy Dean (Research), College of Transport &amp; Communications,</i>       |

## Wednesday, July 6

|                                                                                                                                                       |                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                       | <i>Shanghai Maritime University</i>                                                                                                        |
| <i>15:30-16:00</i>                                                                                                                                    | <i>Coffee/Tea Break</i>                                                                                                                    |
| <b>Session D: Panel Discussion, chaired by Dr. Xiangmo Zhao, Professor and Vice President, Chang'an University</b><br><b>Room 128, Admin Building</b> |                                                                                                                                            |
| 16:00 – 17:30<br>Topics for discussion                                                                                                                | 1) Cultivating first-class talents;<br>2) Establishing disciplinary Specialties;<br>3) Interdisciplinary subjects based talent cultivation |

# Wednesday, July 6

## Young Scholars Forum on Transportation Research and Education

Moderator: Dr. Zheng Wan, Associate Professor, Shanghai Maritime University

Room 115, Jiaoyun Building  
SMU Campus

### Opening Ceremony, Chaired by Dr. Zheng Wan, Associate Professor, Shanghai Maritime

8:15 – 8:55

Welcome message from SMU  
Welcome message from COTA

Group Photographing

### Session A, chaired by Dr. Jianjun Wu, Professor, Beijing Jiaotong University

8:55 – 9:20

Joint implementation of road toll and credit in public private partnership networks  
*Dr. Xiaoning Zhang, Professor, Tongji University*

9:20 – 9:45

The two-dimensional simulation models for modelling turning vehicles at mixed-flow intersections  
*Dr. Jian Sun, Professor, Tongji University*

9:45 – 10:10

Effect of cell phone use on drivers' rear-end collision-avoidance behaviors and EEG characteristics based on a driving simulation experiment  
*Dr. Xuedong Yan, Professor, Beijing Jiaotong University*

10:10-10:25

Coffee/Tea Break

### Session B, Chaired by Dr. Xiaoning Zhang, Professor, Tongji University

10:25 – 10:50

Facility location with general facility cost functions  
*Dr. Jia Shu, Professor, Southeast University, Nanjing, China*

10:50 – 11:15

Improved 2D intelligent driver model simulating synchronized flow and concave growth pattern of traffic oscillations  
*Dr. Rui Jiang, Professor, Beijing Jiaotong University*

11:15 – 11:40

Highway safety evaluation prior to construction using driving simulator  
*Dr. Xuesong Wang, Professor, Tongji University*

11:40 - 12:05

Combining high occupancy vehicle lanes and tradable credits scheme for traffic congestion management: A bilevel programming approach  
*Dr. Meng Xu, Professor, Beijing Jiaotong University*

12:05-13:30

Lunch Break

## Wednesday, July 6

## Young Scholars Forum on Transportation Research and Education

Moderator: Dr. Zheng Wan, Associate Professor, Shanghai Maritime University

Room 115, Jiaoyun Building  
SMU Campus**Session C, Chaired by Dr. Xiaokun (Cara) Wang, Assistant Professor, Rensselaer Polytechnic Institute**

|               |                                                                                                                                                                            |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13:30 – 13:55 | Investigating questionnaire survey of pupil evacuation behavior<br><i>Dr. Tieqiao Tang, Professor, Beihang University</i>                                                  |
| 13:55 – 14:20 | The last train coordination in urban rail transit network<br><i>Dr. Huijun Sun, Professor, Beijing Jiaotong University</i>                                                 |
| 14:20 – 14:45 | Full-Scale Testing of Structural Performance for Permeable Interlocking Concrete Pavement using Heavy Vehicle Simulator<br><i>Dr. Hui Li, Professor, Tongji University</i> |
| 14:45 – 15:10 | An airport task assignment problem with travel time and purity<br><i>Dr. Zhe Liang, Professor, Tongji University</i>                                                       |
| 15:10 - 15:25 | Coffee/Tea Break                                                                                                                                                           |

**Session D, Chaired by Dr. Sean Qian, Assistant Professor, Carnegie Mellon University**

|               |                                                                                                                                                                                 |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15:25 – 15:50 | Chinese driver behavior ethogram during lane changes on freeways considering driving style classification<br><i>Dr. Chaozhong Wu, Professor, Wuhan University of Technology</i> |
| 15:50 – 16:15 | Examining road traffic mortality status for 195 countries, 1985-2013<br><i>Dr. Helai Huang, Professor, Central South University, Changsha, China</i>                            |
| 16:15 – 16:40 | Optimal parking location and parking fee in a commute corridor with park and ride facilities<br><i>Dr. Jiancheng Long, Professor, Hefei University of Technology</i>            |
| 16:40 - 17:05 | Optimization of transit priority operation at signalized arterials<br><i>Dr. Wanjing Ma, Professor, Tongji University</i>                                                       |
| 17:05 - 17:30 | Discussions                                                                                                                                                                     |

## Wednesday, July 6

| <b>Workshop: Introductions to Transportation Models and Applications</b><br><b>Moderator: Jia Hao Wu, Professor of Shanghai Maritime University, President of W &amp; S Solutions</b> |                                                                                                                                                                                             | Conference Hall (1st floor), College of Transport and Communication<br>SMU Campus |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 13:30 – 14:10                                                                                                                                                                         | AIMSUN Integration Method and Applications<br><i>Mr. Timothy Lim, Traffic Engineer, TSS</i>                                                                                                 |                                                                                   |
| 14:10 – 14:50                                                                                                                                                                         | Transport Modeling in the Era of Cloud Computing and Big Data<br><i>Mr. Luke Cheng, Regional Director, Citilabs</i>                                                                         |                                                                                   |
| 14:50 – 15:30                                                                                                                                                                         | Large-scale Travel Modeling, Simulation and Visual Analysis<br><i>Dr. Shuguang He, Senior Consultant, INRO</i>                                                                              |                                                                                   |
| 15:30 – 16:10                                                                                                                                                                         | ADB Transportation Project in Mongolia: HH Individual Travel Survey and Modeling Network Development<br><i>Dr. Jia Hao Wu, Professor, Shanghai Maritime University, W &amp; S Solutions</i> |                                                                                   |
| 16:10 – 16:50                                                                                                                                                                         | Big Data and Transportation Models<br><i>Dr. Zhiquan Qiu, Assistant Professor, University of Alberta</i>                                                                                    |                                                                                   |
| 16:50 – 17:30                                                                                                                                                                         | Q&A                                                                                                                                                                                         |                                                                                   |

## Thursday, July 7

|                                                                                            |                                                                                               |                                  |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------|
| <b>Opening Ceremony</b>                                                                    |                                                                                               | <b>8:15 – 9:20</b>               |
| <b>Moderator: Dr Wei Yan, Professor &amp; Vice President, Shanghai Maritime University</b> |                                                                                               | <b>AUDITORIUM<br/>SMU CAMPUS</b> |
| Welcome Remarks                                                                            |                                                                                               |                                  |
| 8:30 – 8:40                                                                                | <i>Dr. Youfang Huang, Professor and President, Shanghai Maritime University</i>               |                                  |
| 8:40 – 8:50                                                                                | <i>Dr. Yu Zhang, President of COTA; Associate Professor, University of South Florida</i>      |                                  |
| Conference Address                                                                         |                                                                                               |                                  |
| 8:50 – 8:55                                                                                | <i>Dr. Yuhe Cai, President, China Communications News, China</i>                              |                                  |
| 8:55 – 9:00                                                                                | <i>Dr. Jose Holguín-Veras, Professor, Rensselaer Polytechnic Institute</i>                    |                                  |
| 9:00 – 9:05                                                                                | <i>Dr. Zuoyi Liu, National Natural Science Foundation of China</i>                            |                                  |
| 9:05 – 9:10                                                                                | <i>Dr. James R. Sayer, Director, University of Michigan Transportation Research Institute</i> |                                  |
| 9:10 – 9:15                                                                                | <i>Dr. Michael Walton, Professor, University of Texas at Austin</i>                           |                                  |
| <b>Coffee Break &amp; Photographing</b>                                                    |                                                                                               | <b>9:20 – 10:00</b>              |

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|                                                                                  |                                                                                                                                                                                                             |                                  |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Plenary Session I: Efficient and Green Transportation</b>                     |                                                                                                                                                                                                             | <b>10:00 – noon</b>              |
| <b>Chair: Dr. Yafeng Yin, Conference Chair, Professor, University of Florida</b> |                                                                                                                                                                                                             | <b>AUDITORIUM<br/>SMU CAMPUS</b> |
| 10:00 – 10:30                                                                    | A New Method to Reduce Urban Congestion<br><i>Dr. Carlos Daganzo, Member of the U.S. National Academy of Engineering (NAE), Professor at the University of California Berkeley, USA</i>                     |                                  |
| 10:30 - 11:00                                                                    | The State of the Art and the Practice of Free Trade Zones in China<br><i>Dr. Youfang Huang, Professor and President, Shanghai Maritime University, China</i>                                                |                                  |
| 11:00 – 11:30                                                                    | A Comparative Analysis of Network Mobility Management Strategies<br><i>Dr. Hai Yang, Editor-in-Chief of Transportation Research Part B, Professor at the Hong Kong University of Science and Technology</i> |                                  |
| 11:30 – 12:00                                                                    | Big Data Methodology and Complexity Theory Integrating into Urban Transportation Studies<br><i>Dr. Dongyuan Yang, Professor, Tongji University</i>                                                          |                                  |

# Thursday, July 7

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| <b>Plenary Session II: Frontiers in Transportation Technologies and Management</b><br><b>Chair: Dr. Yu Zhang, COTA President, Associate Professor, University of South Florida</b> |                                                                                                                                                                        | <b>14:00 – 15:50</b><br><b>Grand Ballroom 2</b><br><b>Crowne Plaza Hotel</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 14:00 – 14:20                                                                                                                                                                      | Continuum Modeling of Land Use, Transport and the Environment for a Polycentric City<br><i>Dr. S.C. Wong, Professor, The University of Hong Kong</i>                   |                                                                              |
| 14:20 – 14:40                                                                                                                                                                      | Next Generation Traffic Control System with Connected and Automated Vehicles<br><i>Dr. Henry Liu, Professor, University of Michigan</i>                                |                                                                              |
| 14:40 – 15:00                                                                                                                                                                      | Theoretical research and evaluation system of traffic integration of urban agglomeration<br><i>Dr. Huapu Lu, Professor, Tsinghua University</i>                        |                                                                              |
| 15:00 – 15:20                                                                                                                                                                      | An Infrastructure Based Approach Toward Connected Vehicle and Automated Highway System<br><i>Dr. Bin Ran, Professor, Southeast University, University of Wisconsin</i> |                                                                              |
| 15:20 – 15:40                                                                                                                                                                      | Mcity: from Conceptualization to Realization<br><i>Dr. James R. Sayer, Director, University of Michigan Transportation Research Institute</i>                          |                                                                              |
| 15:40 – 15:50                                                                                                                                                                      | Q&A                                                                                                                                                                    |                                                                              |
| Coffee/Tea Break                                                                                                                                                                   |                                                                                                                                                                        | <b>15:50 – 16:10</b>                                                         |

| <b>Special Session I: New Technologies &amp; Challenges in Maritime Transportation</b><br><b>Chair: Dr. Ying-En Ge, Professor, Shanghai Maritime University</b> |                                                                                                                                                                                                               | <b>14:00 – 15:50</b><br><b>Grand Ballroom 1</b><br><b>Crowne Plaza Hotel</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 14:00 – 14:20                                                                                                                                                   | Trends and development of automatic container terminal<br><i>Dr. Xunjie Luo, Director of Construction Division, SIPG, China</i>                                                                               |                                                                              |
| 14:20 – 14:40                                                                                                                                                   | Strategies to enhance the core competitiveness of Shanghai Port during the 13th Five-year Plan period<br><i>Dr. Mei Sha, Professor, Shanghai Maritime University</i>                                          |                                                                              |
| 14:40 – 15:00                                                                                                                                                   | A feasibility study for multi-user container terminal in port of Kaohsiung based on transshipment model and cost benefit analysis<br><i>Dr. Yi-Chih Yang, Professor, National Kaohsiung Marine University</i> |                                                                              |
| 15:00 – 15:20                                                                                                                                                   | Master Sun's Art of War and Operations and Management of Logistics Companies<br><i>Mr Chen Cheng, General-Director, Qingdao Chengfeng Logistics Co., Ltd</i>                                                  |                                                                              |
| 15:20 – 15:40                                                                                                                                                   | Some advances on container port operations research<br><i>Dr. Lu Zhen, Professor, Shanghai University</i>                                                                                                     |                                                                              |
| 15:40 – 15:50                                                                                                                                                   | Q&A                                                                                                                                                                                                           |                                                                              |
| Coffee/Tea Break                                                                                                                                                |                                                                                                                                                                                                               | <b>15:50 – 16:10</b>                                                         |

## Thursday, July 7

| Lloyd's Register Foundation Session I: Transportation Modeling for Environmental Improvement |                                                                                                                                                                                      | 16:10 – 18:00                          |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Chair: Dr. Yafeng Yin, Professor, University of Florida                                      |                                                                                                                                                                                      | Grand Ballroom 2<br>Crowne Plaza Hotel |
| 16:10 – 16:30                                                                                | Using Multiple Sources of Data for Smart Campus Development<br><i>Dr. William Lam, Professor, The Hong Kong Polytechnic University</i>                                               |                                        |
| 16:30 – 16:50                                                                                | Measuring Route Diversity for Urban Rail Transit Networks<br><i>Dr. Anthony Chen, Professor, Hong Kong Polytechnic University</i>                                                    |                                        |
| 16:50 – 17:10                                                                                | Evaluating the Spatial and Temporal Effects of Plug-in Electric Vehicle Charging on GHG Emissions<br><i>Dr. Yueyue Fan, Professor, University of California at Davis</i>             |                                        |
| 17:10 – 17:30                                                                                | A Framework for estimating traffic emissions: the development of Passenger Car Emission Unit (PCEU)<br><i>Dr. H.K. Lo, Professor, Hong Kong University of Science and Technology</i> |                                        |
| 17:30 – 17:50                                                                                | Strategic Planning of Charging Infrastructures for Electric Vehicles in Regional Networks<br><i>Dr Chi Xie, Professor, Shanghai Jiaotong University</i>                              |                                        |
| 17:50 – 18:00                                                                                | Q&A                                                                                                                                                                                  |                                        |

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| Spotlight Session I: New techniques for Transportation improvement |                                                                                                                                                                                              | 16:10 – 18:00                          |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Chair: Dr. Dongyuan Yang, Professor, Tongji University             |                                                                                                                                                                                              | Grand Ballroom 1<br>Crowne Plaza Hotel |
| 16:10 – 16:30                                                      | Recent Methodological Advancements in Simulation-Based Dynamic Traffic Assignment<br><i>Dr. Yi-Chang Chiu, Associate Professor, The University of Arizona</i>                                |                                        |
| 16:30 – 16:50                                                      | The application of self-illuminated signs in the slow-traffic language<br><i>Mr Jun Gong, Saikang Jiao'an Co., Nanjing</i>                                                                   |                                        |
| 16:50 – 17:10                                                      | Alternative Modeling Methods for Highway Safety Research<br><i>Dr. Xiaoduan Sun, Professor, University of Louisiana at Lafayette</i>                                                         |                                        |
| 17:10 – 17:30                                                      | Trajectory-informed Emergent Human Mobility in Disrupted Infrastructure Networks: An Agent-based Modeling Approach<br><i>Dr. Haizhong Wang, Assistant Professor, Oregon State University</i> |                                        |
| 17:30 – 17:50                                                      | Assessment criteria for global logistics hub ports in Northeast Asia<br><i>Dr. Yi-Chih Yang, Professor, National Kaohsiung Marine Universityshang</i>                                        |                                        |
| 17:50 – 18:00                                                      | Q&A                                                                                                                                                                                          |                                        |

Thursday, July 7

| Technical Session I: Intelligent Transportation Systems - A |                                                                                                                                                                                                                     | 16:10 – 18:00                          |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Chair: Dr. Jian Sun, Professor, Tongji University           |                                                                                                                                                                                                                     | Grand Ballroom 3<br>Crowne Plaza Hotel |
| 16:10 – 16:25                                               | Investigating the Impact of Local Real-Time Traffic Information Provision Strategy in a Connected Vehicle System<br><i>Mr. Shuwei Chen, Guangxi Transportation Research Institute</i>                               |                                        |
| 16:25 – 16:40                                               | Clustering-based Lateral Longitudinal Target Recognition of In-vehicle LIDAR Data<br><i>Mr. Chao Deng, Wuhan University of Technology</i>                                                                           |                                        |
| 16:40 – 16:55                                               | <del>Investigating the Impact of Local Real-Time Traffic Information Provision Strategy in a Connected Vehicle System</del><br><del><i>Dr. Lili Du, Assistant Professor, Illinois Institute of Technology</i></del> |                                        |
| 16:55 – 17:10                                               | Traffic Smoothing with Connected Automated Vehicles<br><i>Dr. Xiaopeng Li, Assistant Professor, University of South Florida</i>                                                                                     |                                        |
| 17:10 – 17:25                                               | The Disruptive Impact of Connected and Automated Vehicles<br><i>Dr. Jianming Ma, Transportation Engineer, Texas Department of Transportation</i>                                                                    |                                        |
| 17:25 – 17:40                                               | DSRC versus 4G-LTE for Connected Vehicle Applications: A Study on Field Experiments of Vehicular Communication Performance<br><i>Dr. Zhigang Xu, Associate Professor, Chang'an University</i>                       |                                        |
| 17:40 – 18:00                                               | Q&A                                                                                                                                                                                                                 |                                        |

| Technical Session II: Logistics and Freight Transportation    |                                                                                                                                                            | 16:10 – 18:00                        |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Chair: Dr. Zhihua Hu, Professor, Shanghai Maritime University |                                                                                                                                                            | Rotterdam Room<br>Crowne Plaza Hotel |
| 16:10 – 16:25                                                 | A Model for the Design of Hub-and-Spoke Logistics Networks with Multiple Lines under Investment Restrictions<br><i>Mr. Xiang Chen, Chang'an University</i> |                                      |
| 16:25 – 16:40                                                 | Node Dependency in Multi-Commodity Flow Problem with Application to Transportation Networks<br><i>Mr. Weibin Dai, PhD student, Beihang University</i>      |                                      |
| 16:40 – 16:55                                                 | The development level evaluating about China's logistic industry based on factor and cluster analyzing<br><i>Ms. Na Dong, Chang'an University</i>          |                                      |
| 16:55 – 17:10                                                 | Study on warning system of green degree supply chain based on FAM-TOPSIS method<br><i>Ms. Li Hao, Chang'an University</i>                                  |                                      |
| 17:10 – 17:25                                                 | Improving Operational Reliability of Scheduling and Routing for Freight Locomotives<br><i>Ms. Shuo Tong, Beijing Jiaotong University</i>                   |                                      |
| 17:25 – 17:40                                                 | Design and planning of new types of automated container terminal<br><i>Dr. Hongtao Hu, Associate Professor, Shanghai Maritime University</i>               |                                      |
| 17:40 – 18:00                                                 | Q&A                                                                                                                                                        |                                      |

## Thursday, July 7

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| Technical Session III: Network and Traffic Flow - A                  |                                                                                                                                                                                                | 16:10 – 18:00                        |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Chair: Dr. Jiancheng Long, Professor, Hefei University of Technology |                                                                                                                                                                                                | Singapore Room<br>Crowne Plaza Hotel |
| 16:10 – 16:25                                                        | Reliability Analysis of Typical Road Network Based on Complex Network Theory<br><i>Ms. Jiaqi Han, Jilin University</i>                                                                         |                                      |
| 16:25 – 16:40                                                        | Traffic flow on a road network using a conserved higher-order model<br><i>Mr. Zhiyang Lin, PhD Student, Shanghai University</i>                                                                |                                      |
| 16:40 – 16:55                                                        | Time-Dependent Transportation Network Design Considering Construction Impact<br><i>Dr. Ziqi Song, Assistant Professor, Utah State University</i>                                               |                                      |
| 16:55 – 17:10                                                        | Study on Multi-Depot Location Routing Problem within Urban Road Network Topology<br><i>Mr. Chao Xie, Chang'an University</i>                                                                   |                                      |
| 17:10 – 17:25                                                        | A Comparison of Traffic Flow Prediction Methods Based on DBN<br><i>Ms. Xuan Xuan, Beijing Institute of Technology</i>                                                                          |                                      |
| 17:25 – 17:40                                                        | Bayesian Network-based Formulation and Analysis for Toll Road Utilization Supported by Traffic Information Provision<br><i>Dr. Guohui Zhang, Assistant Professor, University of New Mexico</i> |                                      |
| 17:40 – 18:00                                                        | Q&A                                                                                                                                                                                            |                                      |

| Technical Session IV: Road Traffic Operations, Management, and Control |                                                                                                                                                                                                                | 16:10 – 18:00                        |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Chair: Dr. Rui Jiang, Professor, Beijing Jiaotong University           |                                                                                                                                                                                                                | Hong Kong Room<br>Crowne Plaza Hotel |
| 16:10 – 16:25                                                          | Locating the Sources of Traffic Information in Urban Areas<br><i>Mr. Hang Gong, Central South University</i>                                                                                                   |                                      |
| 16:25 – 16:40                                                          | Active Traffic and Demand Management and its application in alleviating traffic congestion<br><i>Dr. Xianbiao Hu, Director of R&amp;D Department, Metropia; and Affiliate Professor, University of Arizona</i> |                                      |
| 16:40 – 16:55                                                          | A-Driver Warning System for Android System<br><i>Ms. Ke Meng, Wuhan University of Technology</i>                                                                                                               |                                      |
| 16:55 – 17:10                                                          | Research on the Integrated Transport Efficiency Measurement Based on Transport Capacity Utilization<br><i>Ms. Jingni Song, Chang'an University</i>                                                             |                                      |
| 17:10 – 17:25                                                          | Leveraging Multi-Source Real-Time Data for Arterial Performance Measurement<br><i>Dr. Yao-Jan Wu, Assistant Professor, University of Arizona</i>                                                               |                                      |
| 17:25 – 17:40                                                          | Transit signal priority optimization under arterial signal coordinated control condition<br><i>Dr. Rui Li, Associate Professor, Hohai University</i>                                                           |                                      |
| 17:40 – 18:00                                                          | Q&A                                                                                                                                                                                                            |                                      |

# Thursday, July 7

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| <b>Technical Session V: Traffic Safety, Security and Emergency Responses</b><br>Chair: Dr. Xuesong Wang, Professor, Tongji University, Shanghai |                                                                                                                                                     | 16:10 – 18:00<br>Marseilles Room<br>Crowne Plaza Hotel |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 16:10 – 16:25                                                                                                                                   | Recognition Method of Driving Physiological Indicators Based on Smart Bands<br><i>Mr. Chaofei Li, North China University of Technology</i>          |                                                        |
| 16:25 – 16:40                                                                                                                                   | Research and design of road cones vehicle for traffic incidents disposal<br><i>Mr. Ze Li, Wuhan University of Technology</i>                        |                                                        |
| 16:40 – 16:55                                                                                                                                   | How Elevation Change Relates to Crash Rates on Interstates<br><i>Dr. Zhibin Li, Research Associate, University of Washington</i>                    |                                                        |
| 16:55 – 17:10                                                                                                                                   | The comparison between driver's visual distraction and cognitive distraction<br><i>Mr. Zhuofan Liu, Chang'an University</i>                         |                                                        |
| 17:10 – 17:25                                                                                                                                   | Investigating the Impacts caused by Manual Secondary Tasks on Driver Visual Behavior<br><i>Ms. Ling Wu, Chang'an University</i>                     |                                                        |
| 17:25 – 17:40                                                                                                                                   | Comprehensive analysis of wrong-way driving crashes on Alabama Interstates<br><i>Dr. Huaguo (Hugo) Zhou, Associate Professor, Auburn University</i> |                                                        |
| 17:40 – 18:00                                                                                                                                   | Q&A                                                                                                                                                 |                                                        |

| <b>Technical Session VI: Transportation Policy, Planning and Modeling -A</b><br>Chair: Dr. Zhe Liang, Professor, Tongji University |                                                                                                                                                                                      | 16:10 – 18:00<br>Antwerp Room<br>Crowne Plaza Hotel |
|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 16:10 – 16:25                                                                                                                      | The Route Choice and Rate Optimization Model of Taxi-sharing Based on Different Time<br><i>Ms. Xuepei Du, Chang'an University</i>                                                    |                                                     |
| 16:25 – 16:40                                                                                                                      | Analysis of parking behavior of large airport based on nested logit model<br><i>Mr. Jianqiang Gao, Beijing University of Technology</i>                                              |                                                     |
| 16:40 – 16:55                                                                                                                      | Analysis of Traffic Capacity in the Freeway Weaving Area Based on Linear Regression<br><i>Ms. Zijian Hu, Chang'an University</i>                                                     |                                                     |
| 16:55 – 17:10                                                                                                                      | The Study on Mechanism of Chinese Urban Elderly Leisure Travel Behavior: A Case Study of Kunming<br><i>Mr. Tianyi She, Kunming University of Science and Technology</i>              |                                                     |
| 17:10 – 17:25                                                                                                                      | Analyzing the local customer-search decisions of vacant taxi drivers towards pick-up points with passenger demand indication signals<br><i>Mr. Wenhan Yang, Hong Kong University</i> |                                                     |
| 17:25 – 17:40                                                                                                                      | Modeling Virus Spreading on Passenger Aviation Networks with Random Times and Variable Rates of Infections and Cures<br><i>Mr. Jinhao Zuo, Shanghai Maritime University</i>          |                                                     |
| 17:40 – 18:00                                                                                                                      | Q&A                                                                                                                                                                                  |                                                     |

## Friday, July 8

**Plenary Session III: Sustainable Multimodal Transportation System**

8:00 – 9:50

Grand Ballroom 2  
Crowne Plaza Hotel

Chair: Dr. Xiaokun (Cara) Wang, Assistant Professor, Rensselaer Polytechnic Institute

|                  |                                                                                                                                                             |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:00 – 8:20      | Freight Demand Management and Its Role To Foster Sustainability<br><i>Dr. Jose Holguín-Veras, Professor, Rensselaer Polytechnic Institute</i>               |
| 8:20 – 8:40      | Revenue Management for Liner Container Shipping Lines<br><i>Dr. Qiang Meng, Professor, National University of Singapore</i>                                 |
| 8:40 – 9:00      | The MIDAS Cyber-Physical System: A Possible Future Proactive Traffic Management System<br><i>Dr. Pitu Mirchandani, Professor, Arizona State University</i>  |
| 9:00 – 9:20      | Update Research – Dynamic and Stochastic Behavior Modeling in Transportation & Logistics<br><i>Dr. Jih-Bing Sheu, Professor, National Taiwan University</i> |
| 9:20 – 9:40      | Importance of Connectivity in the Future of International Freight Flows<br><i>Dr. Michael Walton, Professor, University of Texas at Austin</i>              |
| 9:40 – 9:50      | Q&A                                                                                                                                                         |
| Coffee/Tea Break |                                                                                                                                                             |
| 9:50 – 10:10     |                                                                                                                                                             |

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**Spotlight Session II: Network Modeling and Analysis**

10:10 – 12:00

Chair: Dr. Jia Shu, Professor, Southeast University, Nanjing, China

Grand Ballroom 2  
Crowne Plaza Hotel

|               |                                                                                                                                                                                   |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10:10 – 10:30 | Cube New Developments and Applications<br><i>Dr. Luke Cheng, Citilabs</i>                                                                                                         |
| 10:30 – 10:50 | Cyber-Enabled Demand-Interactive Transit (CREDIT) for Sustainable Transportation<br><i>Dr. Yu (Marco) Nie, Associate Professor, Northwestern University</i>                       |
| 10:50 – 11:10 | Planning Service Facility Location under Congestion and Equilibrium in a Continuous Space<br><i>Dr. Yanfeng Ouyang, Professor, The University of Illinois at Urbana-Champaign</i> |
| 11:10 – 11:30 | Day-to-day route choice: virtual experiment and model calibration<br><i>Dr. Feng Xiao, Professor, Southwestern University of Finance and Economics</i>                            |
| 11:30 – 11:50 | Implication of Autonomous Vehicles to Airport Terminal Planning and Design<br><i>Dr. Yu Zhang, Associate Professor, University of South Florida</i>                               |
| 11:50 – 12:00 | Q&A                                                                                                                                                                               |

Friday, July 8

| Spotlight Session III: Transportation Planning and Urban Development |                                                                                                                                                                             | 10:10 – 12:00                          |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Chair: Dr. Zhongzheng Yang, Professor, Dalian Maritime University    |                                                                                                                                                                             | Grand Ballroom 1<br>Crowne Plaza Hotel |
| 10:10 – 10:30                                                        | When and how much did the Green Line LRT increase residential property values in St. Paul, Minnesota?<br><i>Dr. Jason Cao, Associate Professor, University of Minnesota</i> |                                        |
| 10:30 – 10:50                                                        | Big Data Analytics: Traffic Operations and Transportation Planning<br><i>Dr. Raymond Douglas Chong, City of Corpus Christi</i>                                              |                                        |
| 10:50 – 11:10                                                        | American Made Transit Metropolis: The Truth and the Future<br><i>Dr. Yingling Fan, Associate Professor, University of Minnesota</i>                                         |                                        |
| 11:10 – 11:30                                                        | Visual Analytics for Large-scale Mobility Data from ABM Models and Collected Sources<br><i>Dr. Shuguang He, Senior Consultant, INRO</i>                                     |                                        |
| 11:30 – 11:50                                                        | Pricing strategies for a taxi hailing platform<br><i>Dr. Xiaolei Wang, Associate Professor, Shanghai Jiaotong University</i>                                                |                                        |
| 11:50 – 12:00                                                        | Q&A                                                                                                                                                                         |                                        |

| Technical Session VII: Traffic Safety, Security and Emergency Responses |                                                                                                                                                                                   | 10:10 – 12:00                        |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Chair: Dr. Helai Huang, Professor, South-Central University, Changsha   |                                                                                                                                                                                   | Rotterdam Room<br>Crowne Plaza Hotel |
| 10:10 – 10:25                                                           | Emergency Vehicles Dispatching for Railway Dangerous Goods Accidents Based on Cooperative Game Theory<br><i>Dr. Xiaoyan Jia, Associate Professor, Lanzhou Jiaotong University</i> |                                      |
| 10:25 – 10:40                                                           | Controlled Experiments to Examine Different Exit Designs on Crowd Evacuation Dynamics<br><i>Ms. Yiwen Liu, Southeast University</i>                                               |                                      |
| 10:40 – 10:55                                                           | Hazardous Material Routing Research Based on Behavior Analysis and Risk Preference<br><i>Ms. Wenxuan Wang, Chang'an University</i>                                                |                                      |
| 10:55 – 11:10                                                           | Automated Hazardous Action Classification Using Natural Language Processing and Machine Learning Techniques<br><i>Mr. Jiansong Zhang, Western Michigan University</i>             |                                      |
| 11:10 – 11:25                                                           | Research on Emergency Management System for Dangerous Goods Transportation Based on ArcGIS<br><i>Mr. Tianhao Zhang, Chang'an University</i>                                       |                                      |
| 11:25 – 11:40                                                           | Minimum Highway Horizontal Radius Considering the Bernoulli Effect on Running Vehicles<br><i>Mr. Hao Zhou, Southeast University</i>                                               |                                      |
| 11:40 – 12:00                                                           | Q&A                                                                                                                                                                               |                                      |

## Friday, July 8

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| Technical Session VIII: Road Traffic Operations, Management, and Control -A |                                                                                                                                                      | 10:10 – 12:00<br>Singapore Room<br>Crowne Plaza Hotel |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Chair: Dr. Lihua Luo, Assistant Professor, Shanghai Maritime University     |                                                                                                                                                      |                                                       |
| 10:10 – 10:25                                                               | An Optimization-based Iterative Learning Method for Anticipatory Network Traffic Control<br><i>Ms. Wei Huang, KU Leuven</i>                          |                                                       |
| 10:25 – 10:40                                                               | Vehicle Classification and Evaluation Methods for Separating Trucks from Passenger Vehicles<br><i>Mr. Jie Ma, Southeast University</i>               |                                                       |
| 10:40 – 10:55                                                               | Cellular Automaton Modeling of Connected Vehicles Based Bus Lane with Intermittent Priority<br><i>Mr. Dingxin Wu, Southeast University</i>           |                                                       |
| 10:55 – 11:10                                                               | Real-time queue length estimation for signalized intersections<br><i>Dr. Ronghan Yao, Associate Professor, Dalian University of Technology</i>       |                                                       |
| 11:10 – 11:25                                                               | Artificial Bee Colony Algorithm for Guiding Accessibility Optimization Problem of Guide Sign System<br><i>Mr. Jian Zheng, Sun Yat-sen University</i> |                                                       |
| 11:25 – 11:40                                                               | The development trend of road transportation statistics under the new normal<br><i>Dr. Shengyu Yan, Assistant Professor, Chang'an University</i>     |                                                       |
| 11:40 – 12:00                                                               | Q&A                                                                                                                                                  |                                                       |

| Technical Session IX: Public Transit                                     |                                                                                                                                                             | 10:10 – 12:00<br>Hong Kong Room<br>Crowne Plaza Hotel |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Chair: Dr. Kai Liu, Associate Professor, Dalian University of Technology |                                                                                                                                                             |                                                       |
| 10:10 – 10:25                                                            | Bus Frequency Allocation Model Based on Bus Service Mode<br><i>Ms. Shuangshuang Tian, Chang'an University</i>                                               |                                                       |
| 10:25 – 10:40                                                            | Impact Analysis of Public Transport Fare Adjustment on Travel Mode Choice for Travelers in Beijing<br><i>Mr. Qiang Tu, Beijing University of Technology</i> |                                                       |
| 10:40 – 10:55                                                            | Effects of Bus Stop Location on the Total Time of Bus System in Urban Areas<br><i>Ms. Xinyi Wang, Southeast University</i>                                  |                                                       |
| 10:55 – 11:10                                                            | Enhancing transit access and egress via bike-sharing<br><i>Ms. Liyu Wu, Hong Kong Polytechnic University</i>                                                |                                                       |
| 11:10 – 11:25                                                            | Comprehensive Evaluation Framework of Multi-mode Public Transportation Service Level<br><i>Ms. Lin Yao, Beijing University of Technology</i>                |                                                       |
| 11:25 – 11:40                                                            | Investigating the Influence Factors of Public Transit Riders' Transfer Intention: A Case Study in Nanjing<br><i>Ms. Xinwei Zhao, Southeast University</i>   |                                                       |
| 11:40 – 12:00                                                            | Q&A                                                                                                                                                         |                                                       |

| Technical Session X: Network and Traffic Flow - B           |                                                                                                                                                                            | 10:10 – 12:00                         |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Chair: Dr. Wei Liu, Professor, Shanghai Maritime University |                                                                                                                                                                            | Marseilles Room<br>Crowne Plaza Hotel |
| 10:10 – 10:25                                               | A Method to Improve the Route-Based Algorithm for Traffic Assignment by Eliminating the Route Dependence<br><i>Dr. Muqing Du, Assistant Professor, Hohai University</i>    |                                       |
| 10:25 – 10:40                                               | Path planning with information on travel time reliability<br><i>Mr. Xiangfu Kong, Peking University</i>                                                                    |                                       |
| 10:40 – 10:55                                               | A regret theory-based combined trip distribution and traffic assignment model<br><i>Ms. Meng Li, Beihang University</i>                                                    |                                       |
| 10:55 – 11:10                                               | Generalized Statistical Traffic Assignment (GESTA): Methodology, Properties and Variance Analysis<br><i>Dr. Sean Qian, Assistant Professor, Carnegie Mellon University</i> |                                       |
| 11:10 – 11:25                                               | Simulation and Analysis of Large Scale Activity Traffic Flow in Urban Road Networks<br><i>Dr. Junqing Shi, Assistant Professor, Zhejiang Normal University</i>             |                                       |
| 11:25 – 11:40                                               | Traffic distribution model of stochastic network based on robust optimization<br><i>Mr. Chao Sun, Southeast University</i>                                                 |                                       |
| 11:40 – 12:00                                               | Q&A                                                                                                                                                                        |                                       |

Friday, July 8

## Smart-City-Driven Traffic Information Technology and Control Engineering Discipline Development Forum

8:00 – 12:00

Grand Ballroom 3

Crowne Plaza Hotel

**Moderator: Dr. Yinhai Wang, Professor, University of Washington**

8:00 – 8:15

Opening Remarks:

*Dr. Heng Wei, Forum Organizing Committee Chair, Professor, University of Cincinnati*  
*Dr. Jizhen Guan, Forum Advisory Committee Chair, Deputy Secretary-General of ITS-China, Chief Technology Officer at China ITS (Holdings) Co., Ltd.*

### Session I: “Thirteen five” scientific and technological innovation in transportation

*Moderator: Dr. Xiaoguang Yang, Professor, Tongji University*

8:15 – 8:30

Vehicle-Infrastructure Integration Facilitated by Traffic Information Dissemination

*Dr. Yunpeng Wang, Professor, Beihang University*

8:30 – 8:45

Major Technical Challenges in Traffic Engineering Driven by Smart City Innovation

*Dr. Xiangmo Zhao, Professor, Chang'an University*

8:45 – 9:05

Open Discussion

### Session II: Multi-source traffic information fusion and sharing for enhanced traffic control and management

*Moderator: Dr. Hongzhi Guan, Professor, Beijing University of Technology*

9:05 – 9:20

ITS Sensor Data Collection, Processing, and Sharing

*Dr. Zhi Yu, Professor, Sun Yat-sen University*

9:20 – 9:35

Smart City-enabled Traffic Safety and Security Challenges

*Mr. Changjun Wang, Director, Traffic Management Research Institute of the Ministry of Public Security*

9:35 – 10:00

Open Discussion

10:00 – 10:15

Tea/Coffee Break

### Roundtable Discussion

*Moderator: Drs. Wanjing Ma, Zhijun Qiu, Xiaofeng Chen, and Guohui Zhang*

10:15 – 11:45

Participants: Domestic and international experts and scholars, department heads, chairmen, and leaders from the relevant research institutes and universities

11:45 – 12:00

Closing Remarks

*Dr. Yu Zhang, COTA President, Associate Professor, University of South Florida*  
*Dr. Dianhai Wang, Professor, Zhejiang University*

Friday, July 8

|                                                                                 |                                                                                                                                                                                |                                                |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <b>Plenary Session IV: Transportation Planning:<br/>Retrospect and Prospect</b> |                                                                                                                                                                                | <b>14:00 – 15:50</b>                           |
| <b>Chair: Dr. Lei Zhang, Professor, University of Maryland</b>                  |                                                                                                                                                                                | <b>Grand Ballroom 2<br/>Crowne Plaza Hotel</b> |
| 14:00 – 14:20                                                                   | Predictive Analytics for Transportation Planning and Operations in a World of Big Data<br><i>Dr. Chandra R. Bhat, Professor, University of Texas at Austin</i>                 |                                                |
| 14:20 – 14:40                                                                   | Public transport network connectivity: Measuring, detecting weak segments and creating connected priority lanes<br><i>Dr. Avishai Ceder, Professor, University of Auckland</i> |                                                |
| 14:40 – 15:00                                                                   | Economics Analysis of Ride-Sourcing Markets<br><i>Dr. Yafeng Yin, Professor, University of Florida</i>                                                                         |                                                |
| 15:00 – 15:20                                                                   | Transport Planning Research: past achievements and future challenges<br><i>Dr. Juan de Dios Ortuzar, Professor, Pontificia Universidad Católica de Chile</i>                   |                                                |
| 15:20 – 15:40                                                                   | Behavioral Implications of User-Centric Advanced Transportation Technologies and Disruptive Services<br><i>Dr. Ram M. Pendyala, Professor, Arizona State University</i>        |                                                |
| 15:40 – 15:50                                                                   | Q&A                                                                                                                                                                            |                                                |
| <i>Coffee/Tea Break</i>                                                         |                                                                                                                                                                                | <b>15:50 – 16:10</b>                           |

|                                                                                  |                                                                                                                                                                                                                              |                                                |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <b>Spotlight Session IV: Pavement and Materials Engineering</b>                  |                                                                                                                                                                                                                              | <b>16:10 – 18:00</b>                           |
| <b>Chair: Dr. Wuguang Lin, Assistant Professor, Shanghai Maritime University</b> |                                                                                                                                                                                                                              | <b>Grand Ballroom 2<br/>Crowne Plaza Hotel</b> |
| 16:10 – 16:30                                                                    | Track performances near Critical Speed<br><i>Dr. Hai Huang, Associate Professor, Penn State University, Altoona</i>                                                                                                          |                                                |
| 16:30 – 16:50                                                                    | Performance of Multi-Axial Paving Interlayer Reinforced Asphalt Pavement<br><i>Dr. Jenny Liu, Professor, University of Alaska Fairbanks</i>                                                                                  |                                                |
| 16:50 – 17:10                                                                    | A Statistical Based Framework for Predicting Field Cracking Performance of Asphalt Pavements: Application to Longitudinal Cracking Prediction<br><i>Dr. Shihui Shen, Assistant Professor, Penn State University, Altoona</i> |                                                |
| 17:10 – 17:30                                                                    | Effect of Base Parameters and Interface Contact Status on Mechanical Characteristics of Concrete Pavement Slab<br><i>Mr. Yancong Zhang, Engineer, Shanxi Transportation Research Institute</i>                               |                                                |
| 17:30 – 18:00                                                                    | Q&A                                                                                                                                                                                                                          |                                                |

## Friday, July 8

**Spotlight Session V: Transportation Planning and Advanced Modeling****16:10 – 18:00****Grand Ballroom 1  
Crowne Plaza Hotel****Chair: Dr. Yingling Fan, Associate Professor, University of Minnesota**

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|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16:10 – 16:30 | Transportation Evacuation Planning for Coastal Communities Facing Threat of Disruptive Storm Surge<br><i>Dr. Heng Wei, Professor, University of Cincinnati</i>                     |
| 16:30 – 16:50 | AIMSUN New Developments and Applications<br><i>Mr. Timothy Lim, Traffic Engineer, TSS</i>                                                                                          |
| 16:50 – 17:10 | Does zoning matter? The impacts of light railtransit on property Values: Comparing Houston and Dallas<br><i>Dr. Qisheng Pan, Professor, Texas Southern University</i>              |
| 17:10 – 17:30 | Exploring Relations between City Regions Based on Mobile Phone Data<br><i>Dr. Zhiheng Li., Professor, Tsinghua University</i>                                                      |
| 17:30 – 17:50 | Multi-objective optimization of ship speed by simultaneously minimizing emissions and voyage time<br><i>Dr. Jinfeng Zhang, Associate Professor, Wuhan University of Technology</i> |
| 17:50 – 18:00 | Q&A                                                                                                                                                                                |

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**Special Session II: Meet with Editors in Chief****16:10 – 18:00****Moderator: Dr. Sean Qian, Assistant Professor, Carnegie Mellon University****Rotterdam Room  
Crowne Plaza Hotel**

|               |                                                                                  |
|---------------|----------------------------------------------------------------------------------|
| 16:10 – 16:30 | <i>Dr. Kay Axhausen, EIC, Transportation</i>                                     |
| 16:30 – 16:50 | <i>Dr. Juih-Biing Sheu, EIC, Transportation Research Part E</i>                  |
| 16:50 – 17:10 | <i>Dr. Juan de Dios Ortuzar, EIC, Transportation Research Part A</i>             |
| 17:10 – 17:30 | <i>Dr. Yafeng Yin, EIC, Transportation Research Part C</i>                       |
| 17:30 – 17:40 | <i>Mr. Chris Pringle, Executive Publisher – Transportation Journals Elsevier</i> |
| 17:40 – 18:00 | Discussion                                                                       |

Friday, July 8

| <b>Technical Session XI: Non-motorized Transportation</b><br><b>Chair: Dr. Chaozhong Wu, Professor, Wuhan University of Technology</b> |                                                                                                                                                                                                                                   | <b>16:10 – 18:00</b><br><b>Singapore Room</b><br><b>Crowne Plaza Hotel</b> |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 16:10 – 16:25                                                                                                                          | Evaluation of the Effects of Subway Corridor Curve on Pedestrian Characteristics based on Legion Studio<br><i>Dr. Li Cui, Associate Professor Beijing University of Technology</i>                                                |                                                                            |
| 16:25 – 16:40                                                                                                                          | Optimizing the layout of bike-sharing rental stations based on the hierarchical model<br><i>Ms. Chengying Duan, Chang'an University</i>                                                                                           |                                                                            |
| 16:40 – 16:55                                                                                                                          | Research on Static Rebalancing Problem in Bicycle Sharing System<br><i>Mr. Rui Qiao, Chang'an University</i>                                                                                                                      |                                                                            |
| 16:55 – 17:10                                                                                                                          | Characteristic Analysis of Non-motorized Transport on High-density Metropolitan Areas in China: A Case Study in Guangzhou<br><i>Mr. Ying Zeng, Senior Engineer, Guangzhou Urban Planning and Design Survey Research Institute</i> |                                                                            |
| 17:10 – 17:25                                                                                                                          | Research on the travel behavior of non-motorized traffic based on the binary logit model<br><i>Ms. Lingxue Zhang, Chang'an University</i>                                                                                         |                                                                            |
| 17:25 – 17:40                                                                                                                          | Analysis of Inappropriate Road Crossing Behaviors of Pedestrians and Non-motor Vehicles Case studies in Nanjing<br><i>Ms. Yubing Zheng, Southeast University</i>                                                                  |                                                                            |
| 17:40 – 18:00                                                                                                                          | Q&A                                                                                                                                                                                                                               |                                                                            |

| <b>Technical Session XII: Intelligent Transportation Systems-B</b><br><b>Chair: Dr. Feng Xiao, Professor, Southwestern University of Finance and Economics</b> |                                                                                                                                                                                           | <b>16:10 – 18:00</b><br><b>Hong Kong Room</b><br><b>Crowne Plaza Hotel</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 16:10 – 16:25                                                                                                                                                  | Bagging-SVMs Algorithm based Traffic Incident Detection<br><i>Mr. Linchao Li, Southeast University</i>                                                                                    |                                                                            |
| 16:25 – 16:40                                                                                                                                                  | PCA Selection Methods of Reform Plans for Separating Trucks from Passenger Vehicles<br><i>Mr. Jie Ma, Southeast University</i>                                                            |                                                                            |
| 16:40 – 16:55                                                                                                                                                  | Visualization on Big Traffic Data<br><i>Dr. Xiaoxia Wang, Associate Professor, Beijing Jiaotong University</i>                                                                            |                                                                            |
| 16:55 – 17:10                                                                                                                                                  | Modified Intelligent Driver Model Based on Real-Time Friction Coefficient<br><i>Dr. Longhai Yang, Associate Professor, Harbin University of Technology</i>                                |                                                                            |
| 17:10 – 17:25                                                                                                                                                  | Vehicular emissions and concentrations in school zones: A case study<br><i>Dr. Jun-Seok oh, Professor, Western Michigan University</i>                                                    |                                                                            |
| 17:25 – 17:40                                                                                                                                                  | A modified gradient projection algorithm for solving the combined modal split and traffic assignment problem<br><i>Dr. Seungkyu Ryu, Associate Professor, Utah State University Logan</i> |                                                                            |
| 17:40 – 18:00                                                                                                                                                  | Q&A                                                                                                                                                                                       |                                                                            |

## Friday, July 8

| Technical Session XIII: Maritime Transportation                         |                                                                                                                                                                                                            | 16:10 – 18:00                         |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Chair: Dr. Yang Chen, Associate Professor, Shanghai Maritime University |                                                                                                                                                                                                            | Marseilles Room<br>Crowne Plaza Hotel |
| 16:10 – 16:25                                                           | A frequency-based maritime multi-container assignment problem<br><i>Ms. Weiwei Liu, Southeast University</i>                                                                                               |                                       |
| 16:25 – 16:40                                                           | Optimization of ship scheduling for CO2 emissions minimization with uncertain berthing times<br><i>Ms. Xin Wen, PhD Student, Shanghai Maritime University</i>                                              |                                       |
| 16:40 – 16:55                                                           | The Dilemma and Outlet of PSC Cooperation between Countries under the Background of the Maritime Silk Road<br><i>Dr. Hu Zhang, Assistant Professor, East China University of Political Science and Law</i> |                                       |
| 16:55 – 17:10                                                           | A method for traffic congestion assessment in export container yards<br><i>Mr. Hang Yu, PhD student, Shanghai Maritime University</i>                                                                      |                                       |
| 17:10 – 17:25                                                           | Study on cleanup choice in ship oil spillage emergency response based on stated preference data<br><i>Dr. Xin Zhang, Associate Professor, Shanghai Maritime University</i>                                 |                                       |
| 17:25 – 17:40                                                           | Does foreign participation benefit port performance: Evidence from a natural experiment<br><i>Dr. Yang Chen, Associate Professor, Shanghai Maritime University</i>                                         |                                       |
| 17:40 – 18:00                                                           | Q&A                                                                                                                                                                                                        |                                       |

Friday, July 8

| Transportation Practitioner Forum<br>Case Studies of Intersection Safety Improvements                                                                                                                             |                                                                                                                                                                         | 14:00 – 18:00<br>Grand Ballroom 3<br>Crowne Plaza Hotel |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 14:00-14:10                                                                                                                                                                                                       | Opening Remark<br><i>Dr. Hongbo Qian, College of Transport &amp; Communications, Shanghai Maritime University, Shanghai, China</i>                                      |                                                         |
| Session I: Case Studies and Analysis of the Intersection Safety Improvements<br><i>Moderator: Dr. Jianming Ma, Transportation Engineer, TxDOT, USA</i>                                                            |                                                                                                                                                                         |                                                         |
| 14:10 - 14:30                                                                                                                                                                                                     | Multi-leg Intersection Safety and Control Design<br><i>Dr. Haipeng Shao, Professor, Chang'an University, Xian, Shanxi, China</i>                                        |                                                         |
| 14:30 - 14:50                                                                                                                                                                                                     | Innovative Intersection Safety Improvements for Two-Lane Rural Highways<br><i>Dr. Jianming Ma, TxDOT, USA</i>                                                           |                                                         |
| 14:50 - 15:10                                                                                                                                                                                                     | Effects of Traffic Control Devices on Driving Behavior: Driving Simulator Study<br><i>Dr. Xiaohua Zhao, Professor, Beijing University of Technology, Beijing, China</i> |                                                         |
| 15:10 - 15:30                                                                                                                                                                                                     | High Risk Location Identification and Improvement in Shanghai<br><i>Dr. Xuesong Wang, Professor, Tongji University, Shang, China</i>                                    |                                                         |
| 15:30 – 15:50                                                                                                                                                                                                     | Factors Analysis and Improvement Study on Red Light Violation<br><i>Dr. Hongbo Qian, Professor, Shanghai Maritime University, Shanghai, China</i>                       |                                                         |
| 15:50 – 16:10                                                                                                                                                                                                     | Intersection Safety Improvement Practices in Washington DC Metropolitan Area<br><i>Mr. Kyle Liang, Montgomery Co. MD, USA</i>                                           |                                                         |
| 16:10 – 16:30                                                                                                                                                                                                     | Q&A                                                                                                                                                                     |                                                         |
| 16:30 – 16:50                                                                                                                                                                                                     | Tea/Coffee Break                                                                                                                                                        |                                                         |
| Session II (Panel Discussion): How do We Review and Improve Intersection operations and safety in China? – Perspectives from Inside and Outside China<br><i>Moderator: Mr. Kyle Liang, Montgomery Co. MD, USA</i> |                                                                                                                                                                         |                                                         |
| 16:50 – 18:00                                                                                                                                                                                                     | Jianming Ma, Kyle Liang, Jason Wang, Xuesong Wang, Xiaohua Zhao, Haipeng Shao                                                                                           |                                                         |

## Saturday, July 9

**Plenary Session V: Transportation for the Future**

8:00 – 9:50

Chair: Dr. Jun Zhan, Professor, Shanghai Maritime University

Grand Ballroom 2  
Crowne Plaza Hotel

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|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:00 – 8:20      | How many cars are too many? A first attempt<br><i>Dr. Kay W. Axhausen, Professor, ETH Zurich</i>                                                                               |
| 8:20 – 8:40      | User-centric flexible transportation systems<br><i>Dr. Michel Bierlaire, Professor, École Polytechnique Fédérale de Lausanne (EPFL)</i>                                        |
| 8:40 – 9:00      | UAV Applications in Transportation: State of Practice and Future Prospect<br><i>Dr. Zhong-ren Peng, Professor, University of Florida</i>                                       |
| 9:00 – 9:20      | Linking Big Data to Smart Transportation Decisions and Applications<br><i>Dr. Yin Hai Wang, Professor, University of Washington</i>                                            |
| 9:20 – 9:40      | Legal analysis on Philippines' submissions in South China Sea Arbitration<br><i>Dr. Zhihua Zhou, Assistant Professor, East China University of Political Science &amp; Law</i> |
| 9:40 – 9:50      | Q&A                                                                                                                                                                            |
| Coffee/Tea Break |                                                                                                                                                                                |
| 9:50 – 10:10     |                                                                                                                                                                                |

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**Special Session III: Joint International Practice**

8:00 – 9:50

Chair: Dr. Jia Hao Wu, Professor, Shanghai Maritime University,  
President of W & S SolutionsGrand Ballroom 3  
Crowne Plaza Hotel

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|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:00 - 8:25 | Design, Demonstration and Assessment of Real Time Bus Information Service In Shanghai: A Sino-European Joint Research Project<br><i>Mr. Hao Zhu, Vice-director of Shanghai City Comprehensive Transportation Planning Company, Shanghai, China</i> |
| 8:25 - 9:50 | European Sustainable Transportation Mobility and Action Program<br><i>Dr. Tao Yang, Board Chair and President, Nanjing Institute of City &amp; Transportation Planning</i>                                                                         |
| 9:50 – 9:15 | USTDA US-China ITS Project in Guangzhou, China,<br><i>Dr. Jia Hao Wu, Professor of Shanghai Maritime University and President of W &amp; S Solutions, US</i>                                                                                       |
| 9:15 – 9:40 | Asia Development Bank Transportation Projects: A Mongolia Experience<br><i>Dr. Jia Hao Wu, Shanghai Maritime University and W &amp; S Solutions, US</i>                                                                                            |
| 9:40 – 9:50 | Q&A                                                                                                                                                                                                                                                |

Saturday, July 9

**Spotlight Session VI: Advanced Transportation Technologies**

10:10 – 12:00

Grand Ballroom 3

Crowne Plaza Hotel

**Chair: Dr. Asad J Khattak, Professor, University of Tennessee**

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|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10:10 – 10:30 | Dynamic Transportation Network Modeling in A Connected World<br><i>Dr. Xuegang(Jeff) Ban, Associate Professor, Rensselaer Polytechnic Institute</i>                              |
| 10:30 – 10:50 | Study of Micro-Driving Behaviors at Different Levels of Vehicle Automation and Connectivity<br><i>Dr. Asad J. Khattak, Professor, University of Tennessee</i>                    |
| 10:50 – 11:10 | Signal control for various levels of vehicle technology: conventional, connected, and automated vehicles<br><i>Dr. Monica Menedez, Associate Professor, ETH Zurich</i>           |
| 11:10 – 11:30 | Beyond Proof-of-Concept Demonstration of Automated Driving: Understanding New Safety Hazards and Deployment Risks<br><i>Mr. Wei-Bin Zhang, U.C. Berkeley PATH</i>                |
| 11:30 – 11:50 | Modeling Collusion-Proof Port Emission Regulation on Cargo Handling Activities under Incomplete Information<br><i>Dr. Shiyuan Zheng, Professor, Shanghai Maritime University</i> |
| 11:50 – 12:00 | Q&A                                                                                                                                                                              |

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**Spotlight Session VII: Intelligent Traffic Control and Management**

10:10 – 12:00

Rotterdam Room

Crowne Plaza Hotel

**Chair: Dr. Wenlong Jin, Associate Professor, University of California at Irvine**

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|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10:10 – 10:30 | Paradoxical behavior of traffic control systems<br><i>Dr. Wenlong Jin, Associate Professor, University of California at Irvine</i>                              |
| 10:30 – 10:50 | Evolution of the EU and International Shipping: Drivers, Challenges and Scenarios<br><i>Dr. Thierry Vanellander, Assistant Professor, University of Antwerp</i> |
| 10:50 – 11:10 | Infrastructure and Research Update from Canadian ACTIVE-AURORA Network<br><i>Dr. Zhijun (Tony) Qiu, University of Alberta</i>                                   |
| 11:10 – 11:30 | The German Practice in Actuated and Adaptive Traffic Signal Control<br><i>Dr. Ning Wu,, Professor, Ruhr-University Bochum</i>                                   |
| 11:30 – 11:50 | Improving Traffic Network Performance through Coherent and Pragmatic Corridor Optimization<br><i>Dr. Ping Yi, Professor, University of Akron</i>                |
| 11:50 – 12:00 | Q&A                                                                                                                                                             |

## Saturday, July 9

**Technical Session XIV: Multimodal Transportation and Logistics**

10:10 – 11:30

Grand Ballroom 2  
Crowne Plaza Hotel

Chair: Dr. Shun Chen, Associate Professor, Shanghai Maritime University, China

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|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10:10 – 10:30 | Managing Multi-modal Transportation System Dynamics with Adaptive Pricing<br><i>Dr. Wei Liu, Lecturer, University of Glasgow and Nikolas Geroliminis, Professor, EPFL</i> |
| 10:30 – 10:50 | Evaluating emission trading scheme of China on transport and logistics sector<br><i>Dr. Eugene Wong, Assistant Professor, Hang Seng Management College</i>                |
| 10:50 – 11:10 | Quay cranes assignment optimization at container terminals for CO2 emission minimization based on queueing theory<br><i>Mr. Ding Liu, Shanghai Maritime University</i>    |
| 11:10 – 11:20 | Q&A                                                                                                                                                                       |

**Technical Session XV: Transportation Policy, Planning and Modeling -B**

10:10 – 12:00

Singapore Room  
Crowne Plaza Hotel

Chair: Dr. Shanjiang Zhu, Assistant Professor, George Mason University

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|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10:10 – 10:25 | Optimizing Fares and Transfer Discounts for a Bus-Subway Corridor<br><i>Mr. Bingzheng Liu, Dalian University of Technology</i>                                       |
| 10:25 – 10:40 | High dimension traffic data imputation based on square norm<br><i>Ms. Pengye Wang, Beijing Institute of Technology</i>                                               |
| 10:40 – 10:55 | The impact of flexible work hours on trip departure time choices in metropolitan Miami<br><i>Ms. Ying Yang, University of Florida</i>                                |
| 10:55 – 11:10 | Car-following Headways in Different Driving Situations: A Naturalistic Driving Study<br><i>Mr. Meixin Zhu, Tongji University</i>                                     |
| 11:10 – 11:25 | Toll Elasticity of Demand for U.S. Toll Roads: A Dynamic Panel Analysis<br><i>Dr. Shanjiang Zhu, Assistant Professor, George Mason University</i>                    |
| 11:25 – 11:40 | Improve the service level of freight and logistics from abroad and enlightenment for Shandong Province<br><i>Mr. Lujie Fan, Masters Student, Shandong University</i> |
| 11:40 – 12:00 | Q&A                                                                                                                                                                  |

# Saturday, July 9

| Technical Session XVI: Rail Operations, Management and Control |                                                                                                                                                                                                                        | 10:10 – 12:00                        |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Chair: Dr. Renrong Guo, Professor, Inner Mongolia University   |                                                                                                                                                                                                                        | Hong Kong Room<br>Crowne Plaza Hotel |
| 10:10 – 10:25                                                  | Temporal distribution analysis of Beijing subway ridership<br><i>Mr. Congcong Liu, Beihang University</i>                                                                                                              |                                      |
| 10:25 – 10:40                                                  | A Two-stage Model of Crew Rostering considering Fairness for Mass Transit Rail<br><i>Ms. Zhuoran Ma, Beijing Jiaotong University</i>                                                                                   |                                      |
| 10:40 – 10:55                                                  | The Feasibility Analysis of High-Speed Rail Express Based on Dynamic Game<br><i>Mr. Yong Xian, Lanzhou Jiaotong University</i>                                                                                         |                                      |
| 10:55 – 11:10                                                  | The evaluation of urban rail transit sustainable development based on PSR model<br><i>Mr. Zhijie Yang, Tongji University</i>                                                                                           |                                      |
| 11:10 – 11:25                                                  | The high-speed rail competitiveness analysis in Guangzhou-Zhaoqing transport corridor with mixed RP/SP data<br><i>Ms. Wenjing Zhao, Chang'an University</i>                                                            |                                      |
| 11:25 – 11:40                                                  | Modeling traffic operation at signalized intersections without explicit left-turn yielding rules with an enhanced cell transmission model<br><i>Dr. Yunfeng Gao, Assistant Professor, Shanghai Maritime University</i> |                                      |
| 11:40 – 12:00                                                  | Q&A                                                                                                                                                                                                                    |                                      |

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| Technical Session XVII: Road Traffic Operations, Management, and Control –B |                                                                                                                                                            | 10:10 – 12:00                         |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Chair: Dr. Meng Xu, Professor, Beijing Jiaotong University                  |                                                                                                                                                            | Marseilles Room<br>Crowne Plaza Hotel |
| 10:10 – 10:25                                                               | Research on Road Network Capacity under Mixed Traffic in Nanning City<br><i>Mr. Xu Chen, South China University of Technology</i>                          |                                       |
| 10:25 – 10:40                                                               | Simulation for impact of speed bump on traffic flow considering driving behaviour diversity<br><i>Mr. Cheng Li, Beijing Institute of Technology</i>        |                                       |
| 10:40 – 10:55                                                               | Identification of Human Failure in Lane Changing Process on Expressways Based on Cepstral Analysis<br><i>Mr. Haoran Li, Wuhan University of Technology</i> |                                       |
| 10:55 – 11:10                                                               | Analysis of Congestion on Space and Time of Beijing traffic data<br><i>Dr. Xiaoxia Wang, Associate Professor, Beijing Jiaotong University</i>              |                                       |
| 11:10 – 11:25                                                               | Optimization Research on Unsaturated Intersections Based on Traffic Delay<br><i>Ms. Xinghua Wei, Southeast University</i>                                  |                                       |
| 11:25 – 11:40                                                               | Comparative study on Beijing and Singapore rear-end crash risk<br><i>Dr. Jinxian Weng, Professor, Shanghai Maritime University</i>                         |                                       |
| 11:40 – 12:00                                                               | Q&A                                                                                                                                                        |                                       |

**Saturday, July 9**

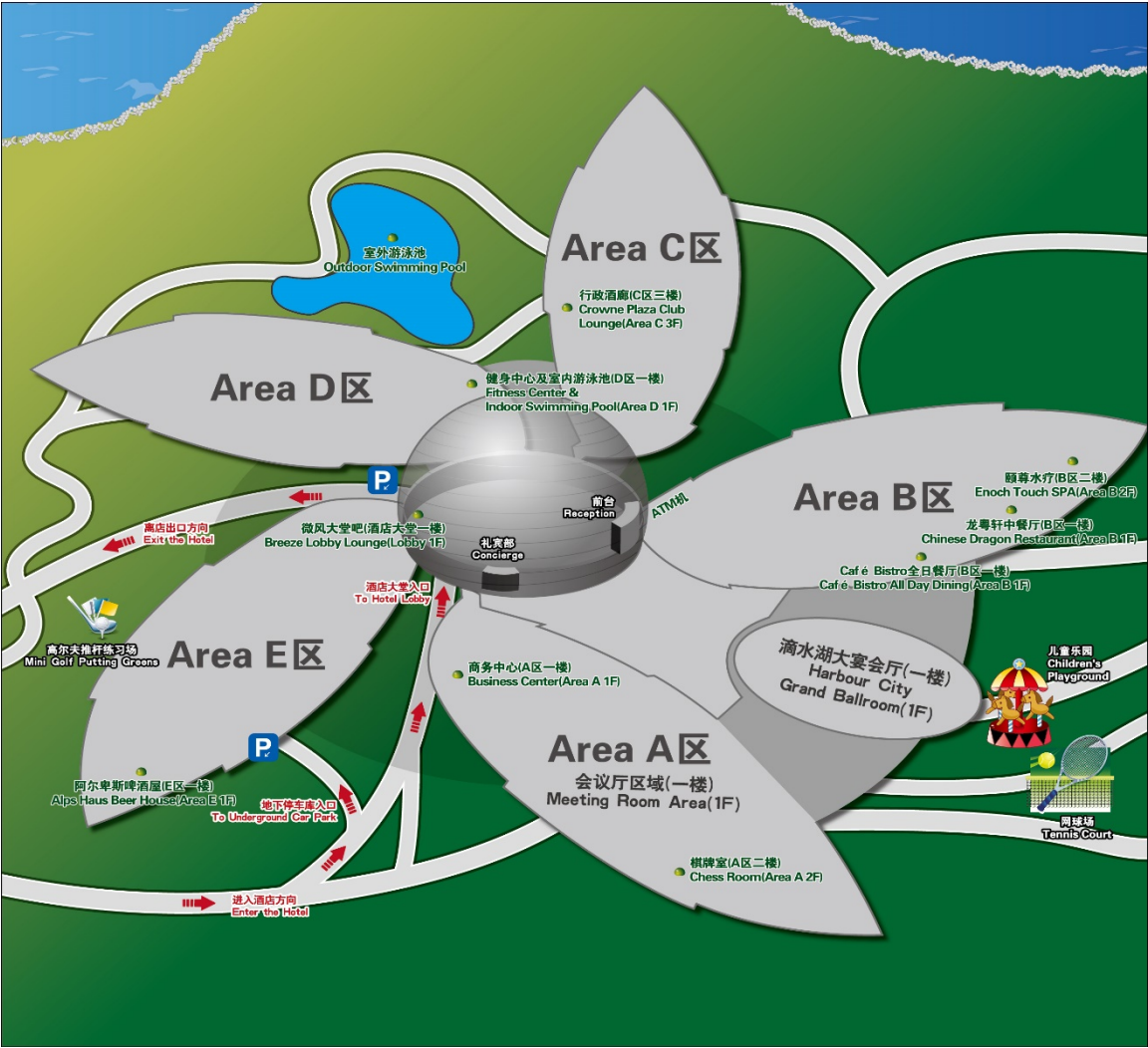
| <b>Lloyd's Register Foundation Session II: Transportation<br/>Energy, Environment and Sustainability</b> |                                                                                                                                                                      | <b>10:10 – 12:00</b>                       |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| <b>Chair: Dr. Lihui Zhang, Assistant Professor, Zhejiang University</b>                                  |                                                                                                                                                                      | <b>Antwerp Room<br/>Crowne Plaza Hotel</b> |
| 10:10 – 10:30                                                                                            | Analysis of the dynamic VOC vehicle emission inventory based on typical urban traffic flow states<br><i>Ms. Xiaofang Lin, Sun Yat-sen University</i>                 |                                            |
| 10:30 – 10:50                                                                                            | Modeling Risk for Hazardous Material Shipment<br><i>Ms. Dingding Rong, Shanghai Maritime University</i>                                                              |                                            |
| 10:50 – 11:10                                                                                            | The Potential of LNG as a Ship Bunker Fuel in 2025: A Forecast for the Port of Antwerp<br><i>Dr. Thierry Vanellander, Assistant Professor, University of Antwerp</i> |                                            |
| 11:10 – 11:30                                                                                            | The green vehicle routing problem with stochastic travel speeds<br><i>Dr. Che-Fu Hsueh, Professor, Chien Hsin University</i>                                         |                                            |
| 11:30 - 11:50                                                                                            | Artificial Bee Colony Approach to Solve the Electric Vehicle Routing Problem<br><i>Mr. Yiran Cheng, The University of Hong Kong</i>                                  |                                            |
| 11:50 – 12:00                                                                                            | Q&A                                                                                                                                                                  |                                            |

Saturday, July 9

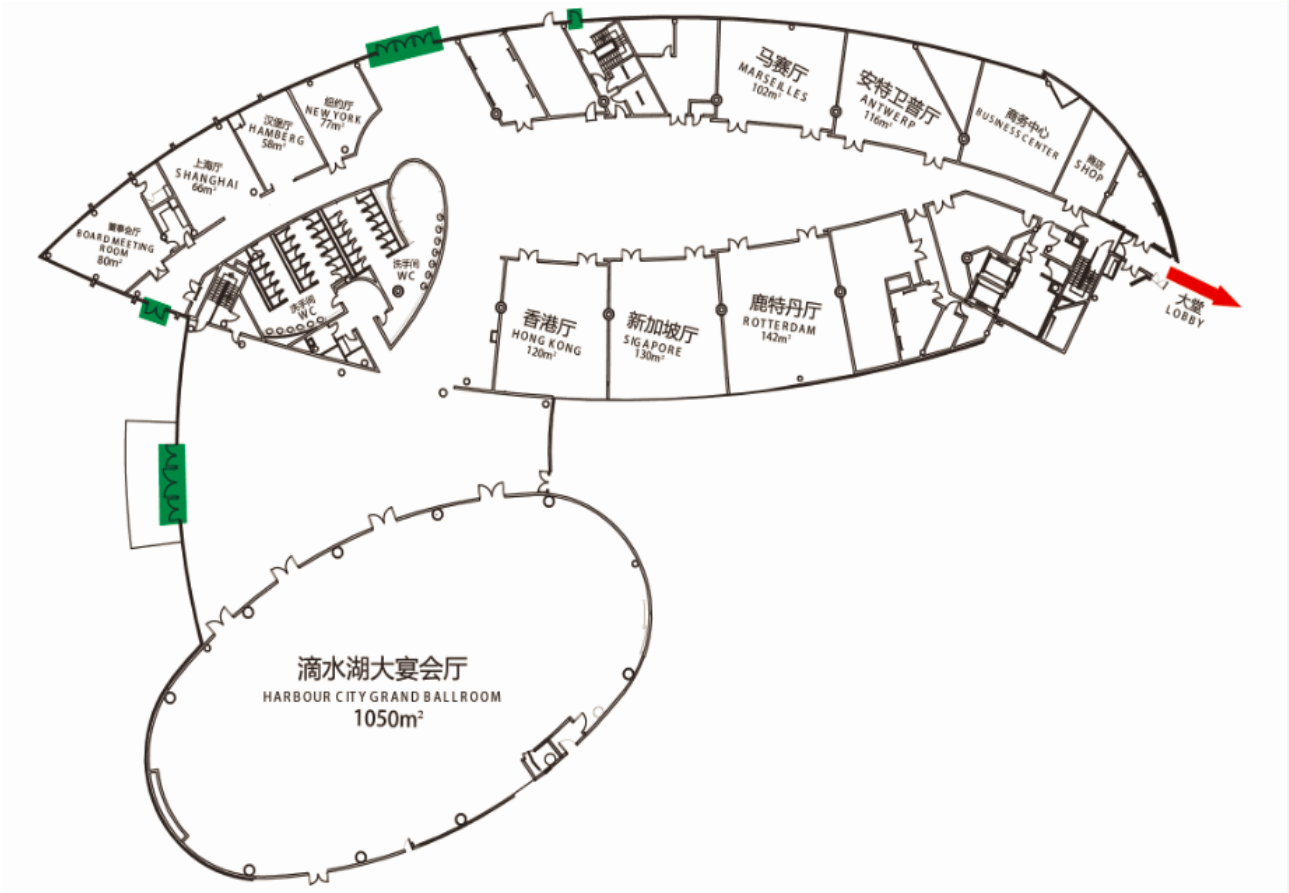
| The 7 <sup>th</sup> COTA-World Bank China Transport Forum                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                  | 8:30 – 12:00                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Intermodal Freight Transportation in China and around the World                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                  | Grand Ballroom 1<br>Crowne Plaza Hotel |
| 8:30 - 9:00                                                                                                                                                                                      | Opening Remarks<br><i>Dr. Youfang Huang, Professor &amp; President, Shanghai Maritime University</i><br><i>Dr. Yu Zhang, COTA President, USA; Associate Professor, University of South Florida</i><br><i>Mr. Jose Luis Irigoyen, Director, Transport and ICT Global Practice, World Bank</i><br><i>Dr. Yuhe Cai, President, China Communications News, China</i> |                                        |
| <b>Session I: Intermodal Freight Transportation</b><br><i>Moderator: Jason Wang, Appalachian Regional Commission, USA</i>                                                                        |                                                                                                                                                                                                                                                                                                                                                                  |                                        |
| 9:00 - 9:20                                                                                                                                                                                      | International and Domestic Freight: US Strategic Initiative<br><i>Dr. C. Michael Walton, NAE&amp; Professor, University of Texas at Austin, USA</i>                                                                                                                                                                                                              |                                        |
| 9:20 - 9:40                                                                                                                                                                                      | The State of the Practice of Intermodal Transportation in China<br><i>Dr. Bin Yang, Professor, Shanghai Maritime University</i>                                                                                                                                                                                                                                  |                                        |
| 9:40 - 10:00                                                                                                                                                                                     | The Intermodal Freight Transport Development in the Context of Yangtze River Economic Belt<br><i>Cheng Lu, Deputy Director, Container Center, China Waterborne Transport Research Institute</i>                                                                                                                                                                  |                                        |
| 10:00 - 10:05                                                                                                                                                                                    | Q&A                                                                                                                                                                                                                                                                                                                                                              |                                        |
| 10:05 – 10:15                                                                                                                                                                                    | Coffee Break                                                                                                                                                                                                                                                                                                                                                     |                                        |
| <b>Session II: City Logistics</b><br><i>Moderator: Binyam Reja, China Transport Cluster Leader, World Bank</i>                                                                                   |                                                                                                                                                                                                                                                                                                                                                                  |                                        |
| 10:15 - 10:35                                                                                                                                                                                    | Freight and Logistics in Urban and Metropolitan Areas<br><i>Jose Holguin-Veras, Rensselaer Polytechnic Institute, USA</i>                                                                                                                                                                                                                                        |                                        |
| 10:35 - 10:55                                                                                                                                                                                    | China's Green Logistics and Supply Chain – Key Issues and Pathway<br><i>Guowen Wang, Director, Center for Logistics and SCM, China Development Institute</i>                                                                                                                                                                                                     |                                        |
| 10:55 – 11:00                                                                                                                                                                                    | Q&A                                                                                                                                                                                                                                                                                                                                                              |                                        |
| <b>Session III: ITS for Freight and Logistics</b><br><i>Moderator: Auturo Ardila Gomez, Lead Transport Economist, World Bank</i>                                                                 |                                                                                                                                                                                                                                                                                                                                                                  |                                        |
| 11:00 – 11:20                                                                                                                                                                                    | ITS for Freight and Logistics<br><i>Dr. Zhang Lun, Professor, Tongji University</i>                                                                                                                                                                                                                                                                              |                                        |
| 11:20 – 11:40                                                                                                                                                                                    | Global Environmental Fund (GEF) Green Freight Smart Logistics Platform<br><i>Mr. Zhiling Qiu, Deputy General Manager, Guangzhou CITIC Global Importer</i>                                                                                                                                                                                                        |                                        |
| <b>Panel Discussion: Intermodal Freight Transportation -- from International Experiences to Chinese Practices</b><br><i>Moderator: Dr. Yuhe Cai, President, China Communications News, China</i> |                                                                                                                                                                                                                                                                                                                                                                  |                                        |
| 11:40 – 12:10                                                                                                                                                                                    | Above Session Speakers plus other WB and COTA guests                                                                                                                                                                                                                                                                                                             |                                        |
| 12:10 – 12:15                                                                                                                                                                                    | Closing Remarks<br><i>Mr. Jose Luis Irigoyen, Director, Transport and ICT Global Practice, World Bank</i>                                                                                                                                                                                                                                                        |                                        |

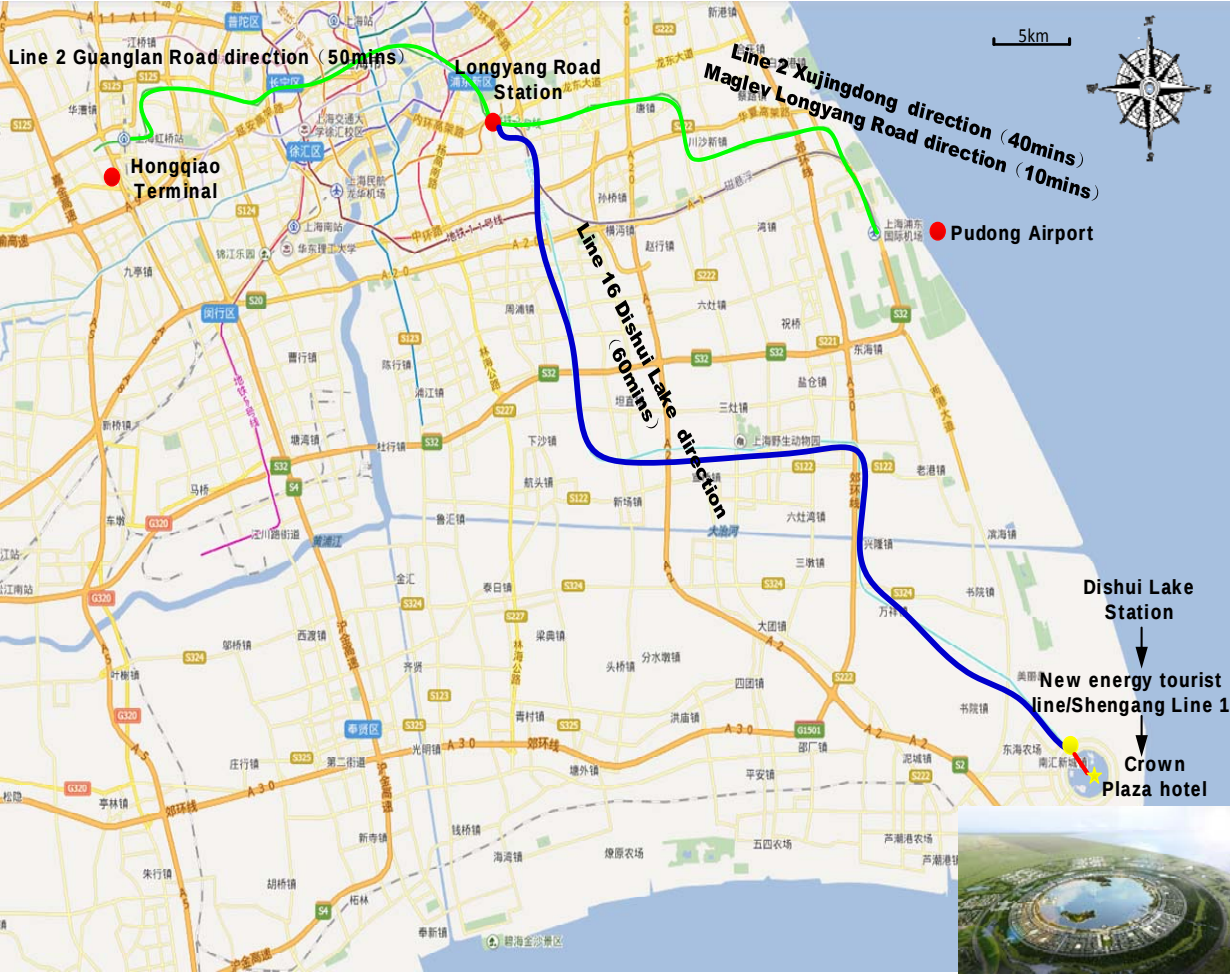
General Information

Crown Plaza Hotel Map



Conference Venues Area A Map





1. 飞机到上海

A. 从浦东国际机场到滴水湖皇冠假日酒店(会议所在地)

地铁 2 号线(龙阳路站下)--->地铁 16 号线(终点站滴水湖站下)--->滴水湖新能源观光线(皇冠假日酒店站下)/申港 1 路(环湖西一路海港大道站下)

B. 从虹桥机场到滴水湖皇冠假日酒店(会议所在地)

地铁 2 号线(龙阳路站下)--->地铁 16 号线(终点站滴水湖站下)--->滴水湖新能源观光线(皇冠假日酒店站下)/申港 1 路(环湖西一路海港大道站下)

2. 铁路到上海

A. 从上海站到滴水湖皇冠假日酒店(会议所在地)

地铁 1 号线(人民广场站下)--->地铁 2 号线(龙阳路站下)--->地铁 16 号线(终点站滴水湖站下)--->滴水湖新能源观光线(皇冠假日酒店站下)/申港 1 路(环湖西一路海港大道站下)

B. 从上海南站到滴水湖皇冠假日酒店(会议所在地)

地铁 1 号线(人民广场站下)--->地铁 2 号线(龙阳路站下)--->地铁 16 号线(终点站滴水湖站下)--->滴水湖新能源观光线(皇冠假日酒店站下)/申港 1 路(环湖西一路海港大道站下)

C. 从虹桥火车站到滴水湖皇冠假日酒店(会议所在地)

地铁 2 号线(龙阳路站下)--->地铁 16 号线(终点站滴水湖站下)--->滴水湖新能源观光线(皇冠假日酒店站下)/申港 1 路(环湖西一路海港大道站下)

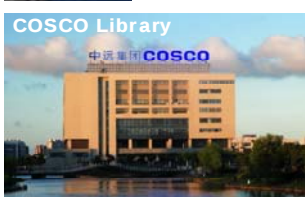
3、滴水湖皇冠假日酒店<--->上海海事大学

申港 1 路(环湖西一路海港大道站<--->沪城环路古棕路站)

# Crown Plaza Hotel Vicinity Map



# Shanghai Maritime University Campus Map



Shanghai Maritime University  
1550 Haigang Ave, Shanghai, P.R. China 201306

## Crown Plaza Hotel Vicinity Map (Cont'd)



### Conference Registration

Conference registration desk is located in the lobby of Area A. Registration can be made July 05, 13:30-21:00, July 06, 8:30-noon and 13:30-21:00, and July 07-08, 7:30 – noon.

### VIP Welcome Dinner

The VIP welcome dinner is held in Hailian Building, Shanghai Maritime University, Wednesday, July 06 18:00 – 20:30.

### Conference Buffet Lunch and Dinner

Buffet lunch or dinner is provided on Thursday, July 07 and Friday, July 08, 12:00-14:00 and 18:00 – 20:30 to all registered conference participants in Café Bistro (Area B 1F) (西餐厅).

### Farewell Luncheon

The farewell lunch is held in Harbour City Grand Ballroom (Area A 1F) (滴水湖大宴会厅), Saturday, July 09 12:10. A brief closing ceremony will take place, followed by an award ceremony and a handover ceremony from the CICTP 2016 organizers to the CICTP 2017 organizers.

### Conference Support Team

The conference Support Team, based in Shanghai Maritime 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.

General Information

CICTP2016

Conference Speakers & Organizers

## Conference Speakers & Organizers

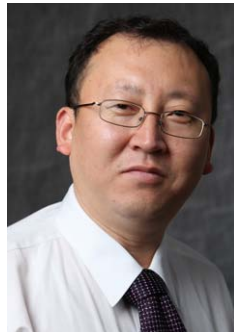
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Dr. K.W. Axhausen is Professor of Transport Planning at the Eidgenössische Technische Hochschule (ETH) Zürich (Swiss Federal Institute of Technology) since 1999. He holds his post in the Institute for Transport Planning and Systems of the Department of Civil, Environmental and Geomatic Engineering. Before his appointment at ETH he worked at the Leopold-Franzens Universität, Innsbruck, Imperial College London and the University of Oxford. He holds a PhD in Civil Engineering from the Universität Karlsruhe (now KIT) and an MSc from the University of Wisconsin – Madison. He has been involved in the measurement and modelling of travel behaviour for the past 30 years contributing especially to the literature on stated preferences, micro-simulation of travel behaviour, valuation of travel time and its components, parking behaviour, activity scheduling and travel diary data collection.

**Xuegang  
BAN**  
Ph.D.



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Dr. Xuegang (Jeff) Ban is an Associate Professor of the Department of Civil and Environmental Engineering at the Rensselaer Polytechnic Institute. He received his B.S. and M.S. in Automobile Engineering from Tsinghua University, and his M.S. in Computer Sciences and Ph.D. in Transportation Engineering from the University of Wisconsin at Madison. His research focuses on Transportation Network Modeling and Simulation, Urban Traffic System Modeling, and Intelligent Transportation Systems (ITS). He has published more than 100 papers in refereed journals, as book chapters, or in conference proceedings. He is a member of the TRB's Network Modeling Committee (ADB30) and Vehicle-Highway Automation Committee (AHB30). He is an Associate Editor of the IEEE Transactions on Intelligent Transportation Systems, Journal of Intelligent Transportation Systems, and serves on the editorial board of Transportation Research Part B, Part C.

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Dr. Chandra R. Bhat is the Director of the Center for Transportation Research (CTR) and the Adnan Abou-Ayyash Centennial Professor in Transportation Engineering at The University of Texas at Austin, where he has a joint appointment between the Department of Civil, Architectural and Environmental Engineering (CAEE) and the Department of Economics. Bhat is a world-renowned expert in the area of transportation and urban policy design, with far reaching implications for public health, energy dependence, greenhouse gas emissions, and societal quality of life. Methodologically, he has been a pioneer in the formulation and use of statistical and econometric methods to analyze human choice behavior. His current research includes the social and environmental aspects of transportation, planning implications of connected and automated smart transportation systems (CASTS), and data science and predictive analytics.

**Michel  
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Michel Bierlaire holds a PhD in Mathematical Sciences from the Facultés Universitaires Notre-Dame de la Paix, Namur, Belgium (University of Namur). Between 1995 and 1998, he was research associate and project manager at the Intelligent Transportation Systems Program of the Massachusetts Institute of Technology (Cambridge, Ma, USA). Between 1998 and 2006, he was a junior faculty in the Operations Research group ROSO within the Institute of Mathematics at EPFL. In 2006, he was appointed associate professor in the School of Architecture, Civil and Environmental Engineering at EPFL, where he became the director of the Transport and Mobility laboratory. Since 2009, he is the director of TraCE, the Transportation Center, and the director of Doctoral Program in Civil and Environmental Engineering at EPFL. In 2012, he was appointed full professor at EPFL. His main expertise is in the design, development and applications of models and

## Conference Speakers & Organizers

algorithms for the design, analysis and management of transportation systems. Namely, he has been active in demand modeling, operations research and Dynamic Traffic Management Systems.

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Dr. Cao is an associate professor of urban and regional planning at the University of Minnesota. His research interests include land use and transportation interaction, the effects of ICT on travel behavior, and planning for quality of life. Dr. Cao's research was funded by US National Science Foundation, Minnesota Department of Transportation, and various local governments. He has published 50+ papers in SCI/SSCI journals. According to Google Scholar, his publications have been cited 3600+ times, with an H-index of 24. Dr. Cao is an associate editor of Transportation Research Part D. He also guest-edited six special issues. Dr. Cao is the Chair of International Association for China Planning. He graduated from Tsinghua University and University of California, Davis.

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Ph.D.



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Avishai (Avi) Ceder received B.Sc. (1971) at the Technion, Faculty of Industrial and Management Engineering, M.Sc. (1972) and Ph.D. (1975) on the subject of Transportation with emphasis on Operations Research and Human Factors, at the University of California at Berkeley, USA. In 2007 he arrived to the University of Auckland; he is the Founder and was the Director, until 2014, of the transportation research centre (TRC). Avi was Head of the Transportation Engineering and Geo-Information Department at the Technion, the Chief Scientist at the Israel Ministry of Transport from 1994 to 1997, and the Israel delegate to the Transport Program of the European Community. Avi is a member of various international symposia and workshops (e.g., ISTTT, CASPT).

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Dr. Anthony Chen is a Professor in the Department of Civil and Environmental Engineering at the Hong Kong Polytechnic University (PolyU) in Hong Kong. He also serves as the Chang Jiang Chair Professor at Tongji University, Shanghai, China. Prior to joining PolyU, Dr. Chen was a Professor in the Department of Civil and Environmental Engineering and Head of the Transportation Division at Utah State University in the United States for seventeen years. Dr. Chen was a recipient of the prestigious Faculty Early Career Development (CAREER) Award from the National Science Foundation (NSF) in 2002. He was a member of the Transportation Network Modeling Committee of the Transportation Research Board from 1999 to 2009, and an editorial board member of the ASCE Journal of Urban Planning and Development from 2007 to 2014. Dr. Chen is currently serving as an associate editor for Transportmetrica A: Transport Science, Networks and Spatial Economics, and Journal of Advanced Transportation, and an editorial board member of Transportation Research Part B: Methodological.

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Luke Cheng has over 25 years of experience in transportation planning and traffic engineering specializing in travel demand forecasting for passenger and freight systems. Luke's professional experience ranges from technical modeling to project management in both public agencies and private consulting firms. Luke has traveled extensively in Asia. He was also based in Hong Kong working on transportation projects in Taiwan, Hong Kong, and the China Mainland. Luke formally served as Transportation Planning Manager for the Los Angeles County Metropolitan Transportation Authority; Director of Wilbur Smith Associates Limited in Hong Kong; Principal Associate for Wilbur Smith in the United States; Assistant Transportation Engineer for the City of Upland, California and as an Assistant Transportation Planner for Nashua Regional Planning Commission. Luke holds a Master's of Science (MSc) in Transportation/Mobility Management from the Massachusetts Institute

## Conference Speakers & Organizers

of Technology, Masters of Science (MSc) in Transportation and Highway Engineering from the Ohio State University, and a Bachelor's degree from National Chiao-Tung University in Taiwan.

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Dr. Raymond Douglas Chong is City Traffic Engineer for City of Corpus Christi in State of Texas in USA. He is responsible for City traffic engineering services with other key transportation agencies. City's traffic signals system include ITS field devices, advanced traffic management system, and traffic management center. He is Professional Engineer, Professional Traffic Operations Engineer, Professional Transportation Planning, and Sustainable Transportation Professional. Dr. Chong received his bachelor's degree from University of Southern California and master's degree from San Jose State University. He is certified in Intelligent Transportation Systems by University of Maryland. He is founding president of Texas Chapter of International Chinese Transportation Professionals Association. Dr. Chong is Specially Appointed Professor with Shandong Jiaotong University.

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Carlos F. Daganzo is a Chancellor's Professor of the Graduate School in civil and environmental engineering at the University of California, Berkeley, and a member of the National Academy of Engineering. He is also a co-founder, chairman of the board, and principal scientist of Via Analytics, a California benefit corporation devoted to improving mobility through technology. He has served as Convenor of the oldest international symposium on transportation and traffic theory (the ISTTT) and as an Associate Editor of Transportation Research (Part B, methodological) and Transportation Science. Daganzo's former students hold faculty positions at top ranked schools of engineering, business and management all over the world. He has authored "Fundamentals of Transportation and

Traffic Operations" (Pergamon-Elsevier, 1997) – an internationally used and translated graduate level textbook. Noted for his contributions to econometrics, logistics, freight operations, network theory, traffic flow, and transit operations, Daganzo has also sole-authored four research books: "Multinomial Probit: The Theory and its Application to Demand Forecasting" (Academic Press, 1979), "Logistics Systems Analysis" (1st, 2nd and 3rd and 4th eds, Springer, 1991, 1996, 1999, 2005), "A Theory of Supply Chains" (Springer, 2003) and "Public Transportation Systems: Basic Principles of System Design, Operations Planning and Traffic Control" (published online, 2010). The latter contains the blueprint for Barcelona's new high-performance bus system, which Daganzo co-designed. The Universitat Politècnica de Catalunya, Barcelona, Spain, bestowed on him an honorary doctorate, partly in recognition for this work. The ISTTT Symposium of 2011 was dedicated to him in recognition of his cumulative contributions to transportation science.

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Dr. Du's is an assistant professor in the Department of Civil, Architectural and Environmental Engineering at Illinois Institute of Technology. She worked as a Research Associate for NEXTRANS at Purdue University from 2008 to 2012; received her Ph.D. degree in Decision Sciences and Engineering Systems with a minor in Operations Research and Statistics from Rensselaer Polytechnic Institute in 2008. Dr. Du's research focuses on Connected and Autonomous Vehicle Systems, Interdependent Infrastructure Network Modeling, Sustainable Multimodal Transportation Systems, Optimization and Data fusion Applications in Traffic Flow Analysis, etc. Her research has been funded by NSF, IDOT, and UTC. Dr. Du is a recipient of NSF-CAREER Award in 2016 and First Nayar Prize at IIT in 2015. Dr. Du is a member of Transpiration Research Board Committee on Transportation Network Modeling (ADB30) and also serves on the editorial board. She is also a Full Member in Sigma Xi, The Scientific Research Society.

## Conference Speakers & Organizers

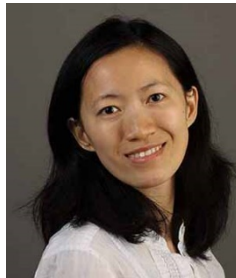
**Yueyue  
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Dr. Yueyue Fan is a Professor of Civil and Environmental Engineering at University of California, Davis. She is also a faculty mentor in Applied Mathematics and Transportation Technology and Policy programs at UC Davis. She graduated from Dalian University of Technology with a B.S degree in 1995 and a M.S in 1998. She obtained her Ph.D. degree at the University of Southern California in 2003. Dr. Fan's research spans transportation and energy systems, with an emphasis on addressing challenges brought by uncertainties, large scale, and non-cooperative behaviors over complex network structure.

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Dr. Yingling Fan is Associate Professor and the Director of the Global Transit Innovations program at the University of Minnesota. As an internationally recognized expert on transit corridor planning, her work focuses on identifying and developing novel land use and transportation solutions to improve social equity and public health. Fan held the title McKnight Land-Grant Professor (2012-2014)—a special award that honors the University of Minnesota's most promising faculty. She is an Editor of the Journal of Transport and Land Use, an editorial board member of the International Journal of Sustainable Transportation, and an elected board member at the World Society for Transport and Land Use Research.

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Dr. Ying-En Ge, since December 2013, has been Professor and Dean of the College of Transport & Communications at the Shanghai Maritime University (SMU). He was awarded his PhD degree in Tongji University in 1999. Before joining the Dalian University of Technology in the Spring of 2010 as a professor, he worked at the University of California at Davis for about a year and then moved to the UK working in the industry as well as higher education sectors for 10+ years. His primary academic interests include transportation network analysis, demand management, transportation policy & the environment, and operations and management of ports & shipping. His publications appear in Transportation Science, Transportation Research Parts B & D, Networks and Spatial Economics, as so on. He serves as associate editor of Transportmetrica (B, transport dynamics) journals, and is a member of the editorial boards of Transport, and International Journal of Transportation.

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Professor Hongzhi GUAN got Bachelor (1982) and Master (1988) in Xi'an Highway University (now Chang'an University) and PhD (1996) in Kyoto University/Japan. From 1996 to 1999, he worked as an assistant professor in Yamanashi University/Japan, and came back from Japan to Beijing University of Technology (BJUT) in 1999. Now he is the professor and doctor supervisor in the College of Architecture and Civil Engineering of BJUT. He works mainly in the field of traffic planning, traffic policy and parking. He has resulted in several successful and ongoing projects, including one National Key Technology R&D Program in the 11th Five Year Plan of China, one National 973 Project, a series of national research projects from National Natural Science Foundation of China (NSFC), and multiple projects consigned by government and enterprise units. Prof. Guan is the Secretary General of the Committee for the teaching of traffic engineering, the specialist of Smooth Traffic Project, established by Ministry of Public Security and Ministry of Transportation of the People's Republic of China, the Director of China Institute of Highway Planning Branch, and the Director of China Road Traffic Safety Association, the Member of China Civil Engineering Journal editorial board.

## Conference Speakers & Organizers

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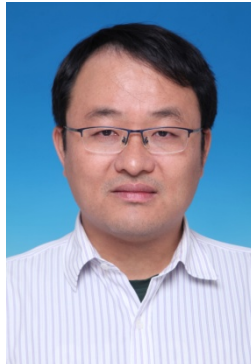
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**Timothy  
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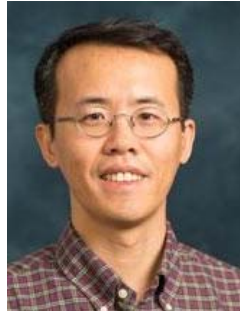


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Taking charge of projects of Natural Science Foundation of China, national key problems from 9th five-year plan to 12th five-year plan, national science and technology support project. Completing more than one hundred projects from National Development and Reform Commission, Ministry of Public Security, Ministry of Transport, Ministry of Housing and Urban-Rural Development, Chinese Academy of Engineering, etc. Publishing more than 400 papers on domestic and international magazines or conferences, with 176 papers retrieved by EI/SCI, including Journal of Tsinghua University, China Journal of Highway and Transport, etc.

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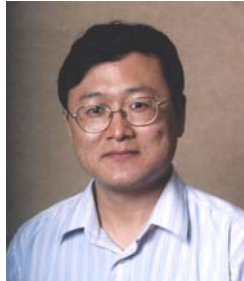
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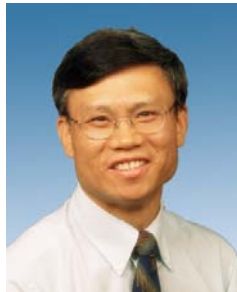


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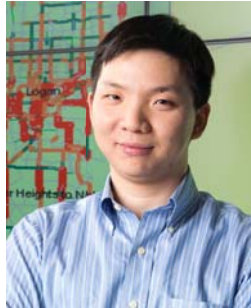


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Dr. Sun started her academic career at civil engineering department, university of Louisiana 22 years ago after getting Ph.D. from the Ohio State University. With research focus on roadway safety, she has published over 100 journal and major conference papers. Dr. Sun currently serves as a member for two TRB committees: Safety Performance and Transportation in Developing Countries, and ASCE safety committee. She also worked as consultant for World Bank on highway safety project in China. One of her roadway safety projects in the United States was awarded by AASHTO as High Value Research project in 2014. Dr. Sun has advised more than 60 graduate students with MS degree and 10 students with Ph.D. degree.

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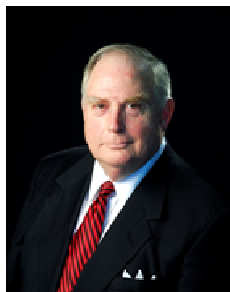
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## Conference Speakers & Organizers

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## Conference Speakers & Organizers

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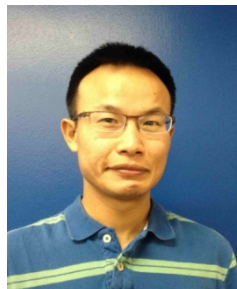
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Dr. Zhang is an expert of network modeling and system analysis with applications in air transportation, multimodal transportation, and shared mobility. Dr. Zhang aims at developing innovative methodologies and concepts for resilient, efficient, and sustainable transportation systems. She has published more than 20 papers in top transportation journals such as Transportation Research Part B, Part C, Part D, and Part E. Dr. Zhang is serving on the editorial board for Transportation Research Part C and is a reviewer for Transportation Science, Transportation Research Part A, Part B, Part C, Part D, Part E, Journal of Air Transport Management, Networks and Spatial Economics, Journal of Cleaner Production, Journal of Air Transport Management, Journal of Intelligent Transportation Systems, European Journal of Operation Research etc. Dr. Zhang is actively involved in professional organizations. She is the committee member, research and paper review coordinators for Transportation Research Board (TRB) Airfield and Airspace Capacity and Delay (AV060) committee. Dr. Zhang is also serving as the President for Chinese Overseas Transportation Association (COTA). Dr. Zhang holds Ph.D. and M.S. from the University of California Berkeley in Civil and Environmental Engineering and Bachelors from Southeast University of China in Transportation Engineering. Dr. Zhang is the recipient of the 2010 Fred Burggraf Award, for excellence in transportation research by researchers 35 years of age or younger, presented by TRB of the National Academies of Science.

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As an ex-mariner with working experience as China legal consultant of two City international and shipping solicitors firms in London and Hong Kong, and also as the CEO of a shipyard in China, Jinsong is a qualified PRC lawyer, Senior Partner and Head of Shipping Team with the AllBright Law Offices in Shanghai, practicing all aspects of shipping law and shipping finance. Being selected into the Shanghai "One Thousand Talents" Project and awarded as Shanghai Distinguished Fellow

by the Shanghai Government, Jinsong is Professor of Maritime Law, Dean of the International Shipping Law School, Director of the Institute of Silk Road Laws, and Head of the Centre for Free Trade Zone Shipping Law Studies, East China University of Political Science and Law, and also Director of Ocean and Shipping Institute, CUTI, and Professor of International Shipping of the School of Naval Architecture, Ocean and Construction Engineering, Shanghai Jiao Tong University. He is involved into research on shipping finance in advising the government on the construction of Shanghai to be an international shipping hub by 2020, Pilot Free Trade Zones, law construction of "One Belt, One Road" project, and Changjiang River Economic Belt. Jinsong is a Supporting Member of LMAA; Arbitrator of International Maritime Arbitration Centre (IMAC), of China Maritime Arbitration Commission (CMAC), of Shanghai Arbitration Court for International Shipping, and of Shenzhen International Arbitration Court; Vice-Director of Expert Committee, Qianhai Arbitration Centre for Maritime and Logistics; Visiting Research Professor, National University Singapore; Visiting Professor, The University of Greenwich; Part-time Professor of Maritime Law, Dalian Maritime University; Guest Professor of Maritime Law, Shanghai Maritime University; and Legal Consultant, China Classification Society.

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Dr. Xiaohua Zhao is currently the Professor of College of Metropolitan Transportation in Beijing University of Technology. Her major research interests involve all aspects of traffic information engineering, traffic control devices, eco-driving, driving behavior and safety, etc.. On these topics, Dr. Xiaohua Zhao has participated in and taken charge of fifteen national and provincial key research projects, and she is the author or co-author of 78 academic papers in tenure, which were published at related journals, such as Accident Analysis and Prevention (AAP), Traffic Injury Prevention (TIP), Transportation Research Record (TRR), Transportation Research Part C, Safety Science, Advances in Mechanical Engineering. Dr. Xiaohua Zhao is a member of the Vehicle User Characteristics Committee of Transportation Research Board (TRB).

## Conference Speakers & Organizers

**Hao  
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Mr. Hao Zhu is Director of ITS Research Centre of Shanghai City Comprehensive Transportation Planning Institute (SCCTPI), Senior Engineer, and a Member of Chinese ITS standardization Committee. He graduated Shanghai Railway University with a Master Degree in 1990. He graduated Southwest Jiaotong University with a Bachelor Degree. He was vice director of Shanghai City Transport Information Centre. He has rich experience in transport planning, transport information research and project development for a long time. He has substantial experience on ITS project management and international partnership coordination. In recent years, he has finished twenty more research projects in Shanghai ITS policy-making, planning, innovation research projects such as bus information service, parking information service, and etc. He has finished two state-level ITS standards and four Shanghai local ITS standards which were published.

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Dr. Shanjiang Zhu is an Assistant Professor of Transportation Planning and Engineering at George Mason University (GMU). He graduated from Tsinghua University with a B.S degree in 2003 and a M.S in 2005. During 2001-2003, he studied at the Ecole Centrale de Nantes, in France, as a dual-degree student. He obtained his Ph.D. degree at the University of Minnesota, Twin Cities, in 2010. Dr. Zhu is a Co-PI of the TransInfo UTC that focuses on Big Data studies in transportation. He has also been funded by FHWA, VDOT and Virginia OPT3 office on a series of projects involving travel demand analysis on both driving and non-motorized modes. He is Virginia Governor's appointee on the Technical Advisory Board of Northern Virginia Transportation Authority and is a fellow of GMU P3 policy center. Dr. Zhu is the recipient of International Transport Forum's 2014 Young Research of the Year Award.

Pre- and Post-CICTP Events

CICTP<sup>2016</sup>

Pre- and Post-CICTP2016 Events



### **The international Symposium on Opportunities and Challenges for Big Data and Smarter Transportation**

July 2, 2016

Chang'an University

2nd Ring Rd South East Section, Beilin, Xi'an,

Shaanxi, 71006 China

For more information, please contact: Dr. Lan Yang,  
+86 18691032156 or yanglan.1985@163.com



### **Shanghai Forum on Megaregion Transportation Systems**

July 6, 2016

Shanghai Jiaotong University

Shanghai, China

For more information, please contact Dr. Yi Zhu,  
+86 15802139068 or yizhu@smart.mit.edu



### **Zhejiang University - COTA Summit Workshop 2016**

July 10-11, 2016

Yuanzheng-Qizhen Hotel

Zijingang Campus, Zhejiang University

866 Yuhangtang Road, Hangzhou 310058, China

For more information, please contact Dr. Xiqun (Michael) Chen at  
(+86) 15957172654 or chenxiqun@zju.edu.cn



## Hosts of Previous CICTPs

### 历届海外华人交通协会（COTA）国际交通科技年会

#### 内地主办单位

（自 2001 年）

- **CICTP2015:** 第十五届 COTA 国际交通科技年会，2014 年 7 月 25-27 日，北京。

**Host/主办单位:** Beijing Jiaotong University/北京交通大学。



协办单位：美国土木工程师学会、美国交通研究委员会、美国交通工程学会、Elsevier

- **CICTP2014:** 第十四届 COTA 国际交通科技年会，2014 年 7 月 4-7 日，长沙。

**Host/主办单位:** South Central University/中南大学。



协办单位：中国交通运输部规划研究院、Elsevier、美国土木工程师学会、美国交通研究委员会、美国交通工程学会。

- **CICTP2013:** 第十三届 COTA 国际交通科技年会，2013 年 8 月 13-16 日，深圳。

**Host/主办单位:** Tsinghua University/清华大学、Shenzhen University/深圳大学、清华—戴姆勒可持续交通联合研究中心、深圳市中盟科技股份有限公司。



- **CICTP2012:** 第十二届 COTA 国际交通科技年会, 2012 年 8 月 3-6 日, 北京。  
**Host/主办单位:** Beihang University/北京航空航天大学、/交通运输部公路科学研究所



协办单位: 美国土木工程师协会交通与发展研究会。

- **CICTP2011:** 第十一届交通运输领域华人学者国际会议, 2011 年 8 月 14-17 日, 南京。  
**Host/主办单位:** Southeast University/东南大学。



协办单位: 美国土木工程师协会交通与发展研究会、中国国家自然科学基金委员会。

- **CICTP2010:** 第十届交通运输领域华人学者国际会议, 2010 年 8 月 4-8 日, 北京。  
**Host/主办单位:** Beijing University of Technology/北京工业大学。



协办单位: 美国土木工程师协会交通与发展研究会、中国国家自然科学基金委员会。

- **CICTP2009:** 第九届交通运输领域华人学者国际会议, 2009 年 8 月 5-8 日, 哈尔滨。  
**Host/主办单位:** Harbin Institute of Technology/哈尔滨工业大学。



协办单位: 美国土木工程师协会交通与发展研究会。

- **CICTP2008:** 第八届交通运输领域华人学者国际会议，2008 年 7 月 31 日-8 月 3 日，成都

**Host/主办单位:** Southwest Jiaotong University/西南交通大学。



协办单位：美国土木工程师协会交通与发展研究会。

- **CICTP2007:** 第七届交通运输领域华人学者国际会议，2007 年 5 月 21-22 日，上海。

**Host/主办单位:** Tongji University/同济大学。



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- **CICTP2006:** 第六届交通运输领域华人学者国际会议，2006 年 6 月 23-26 日，大连。

**Host/主办单位:** Dalian University of Technology/大连理工大学、Dalian Jiaotong University/大连交通大学。



- **CICTP2005:** 第五届交通运输领域华人学者国际会议，2005 年 6 月 25-26 日，西安。

**Host/主办单位:** Chang'an University/长安大学。



- **CICTP2004:** 第四届交通运输领域华人学者国际会议，2004 年 6 月 15-19 日，武汉。  
**Host/主办单位:** Wuhan University of Technology/武汉理工大学。



- **CICTP2003:** 第三届交通运输领域华人学者国际会议，2003 年 12 月 11-13 日，北京。  
**Host/主办单位:** Beijing Jiaotong University/北京交通大学。



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- **CICTP2002:** 第二届交通运输领域华人学者国际会议，2002 年 8 月 5-6 日，南京。  
**Host/主办单位:** Southeast University/东南大学。



- **CICTP2001:** 第一届交通运输领域华人学者国际会议，2001 年 7 月 16-17 日，上海。  
**Host/主办单位:** Tongji University/同济大学、中国城市规划设计研究院、中国道路交通安全协会。





**CICTP 2016**

The 16<sup>th</sup> COTA International Conference of  
Transportation Professionals

第十六届 COTA 国际交通科技年会

**Theme: Green and Multimodal Transportation and Logistics**



Shanghai, China



July 6-9, 2016

**Conference Venue: Dishuihu Crowne Plaza**