

第十七届"COTA"国际交通科技年会

The 17th COTA International Conference of Transportation Professionals (CICTP2017)

Program Book

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交通发展战略研究 交通政策研究 综合交通体系规划 交通发展白皮书 交通发展年度年报

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Transportation Reform and Change: Equity, Inclusiveness, Sharing, and Innovation

CICTP₂₀₁₇

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交通运输的变革与创新:平等、包容、共享、创新 Transportation Reform and Change: Equity, Inclusiveness, Sharing, and Innovation

It is our great pleasure to welcome you all to the 17th COTA International Conference of Transportation Professionals (CICTP 2017) in Shanghai, China. The CICTP2017 is jointly organized by Chinese Overseas Transportation Association (COTA), Tongji 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 Transportation Research Board (TRB) of the US National Academies.

We are pleased to announce that the CICTP2017 received a large number of high-quality technical contributions: among the nearly 1200 submissions, a total of 536 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 "Transportation Reform and Change: Equity, Inclusiveness, Sharing, and Innovation", the CICTP2017 proceedings papers address a wide range of topics. We hope the research and studies gathered in this conference will contribute to solving future needs of a multimodal transportation system, and help to advance transportation sustainability, energy independence, economic vitality, and quality of life. The CICTP2017 will issue several awards, including Best Papers, Outstanding Area Editors, and Outstanding English Editing Chairs, to recognize the authors, reviewers and editors' contributions and their dedication to the conference and/or transportation research and practice in general. The authors of some selected papers will also be invited to submit to recognized journal special issues; e.g., *Journal of Central South University, Transportation Research: Part C* and *Accident Analysis and Prevention*.

The CICTP2017, the largest transportation conference in China, has attracted more than 800 participants domestically and internationally from countries and regions all over the world, including mainland China, the United States of America, Hong Kong, Singapore, Australia, United Kingdom, India, Japan, Belgium and Switzerland. Nearly thirty conference sessions such as plenary, spotlight, COTA contributed, and technical sessions, as well as special forums are organized this year. The CICTP2017 Executive and Organizing Committee has invited about 20 internationally recognized, prestigious experts and scholars to deliver talks in keynote and plenary sessions. These invitees will share their insights, thoughts, visions and experiences on a variety of current practices and state-of-the-art research topics. More than 40 other internationally 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 Chinese Forum on Comprehensive Transport System Development, the World Bank Transportation Development Forum, Dean Forum for Chinese University Transportation Schools, and COTA Professional Development Forum for Young Scholars and Students. The best-paper awards and other professional awards will be granted to the authors of excellent papers or institutes/enterprises which have made outstanding contributions to the development of transportation systems in China. The 3rd China Transportation Research and Technology Exhibition will be also held in conjunction with the CICTP2017 to showcase the latest achievements of research and practices, which include the exhibition of innovative and creative research results by graduate students.



On behalf of the CICTP 2017 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 Tongji 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 for their hard work and great efforts that make the CICTP 2017 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, the capital of China's Hunan Province.

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一方四

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MMA

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- 2016 PTV software is used to develop the pan-European transport model for the EU Commission. As a new European standard, it will model in detail all freight and passenger transport movements across Europe.
- 2015 The company receives World Market Leader and Best of German Mittelstand Award.
- 2013 PTV invests in the development of apps, e.g. Truck Parking Europe, the largest free platform for HGV parking facilities in Europe
- 2011 Vincent Kobesen succeeds company founder Dr.-Ing. Hans Hubschneider as CEO
- 2010 PTV receives prestigious World Leader Seal from German Standards Editions.
- 2009 PTV launches the first professional route planner that allows for qualified calculation of emissions.
- 2008 The company introduces the first multi-modal microscopic simulation program that can model realistic interactions between pedestrians and vehicles.
- 2004 Active internationalisation 18 shareholdings, 500 employees and a revenue of EUR50m.
- 1999 Foundation of the PTV AG as stock corporation under German law through merger of five individual companies.
- 1997-1998 Expansion of international activities and development of regional organisations and partners in the USA, UK, France, Italy and the Netherlands.
- 1996 Company moves into its newly constructed office building in Karlsruhe.
- 1990 PTV opens its first branch office: PTV system Software and Consulting, focusing on traffic and transport planning. Formation of further GmbHs (private limited companies).
- 1979-1982 PTV develops first software solution for trip planning.
- 1979 Hans Hubschneider and Michael Sahling set up PTV Planungsbüro Transport und Verkehr GmbH as a spin-off of Karlsruhe University (TH), now Karlsruhe Institute for Technology (KIT).



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Launched in 2007, Shanghai Ji'an Transportation Consulting co., Ltd.is committed to the development and application of transportation system engineering science and technologyby the efforts of a number of professionals in traffic industry. Ji'an enhances the cooperation with excellent academic teams and universities in both China andabroad to improve the traffic situation, the urban development, environment renovation, and harmonious growth of the resource and traffic by focusing on the technology initiative, consultation, service and training. The related business covers over 60 cities in China.

Company Honors

- 2017 Second prize of Science and Technology Progress in Colleges and Universitiesgranted by the Ministry of Education
- 2015 China'sOutstanding Unit in intelligent traffic management planning and design industry
- 2015 Shanghai Newly-Specialized Small and Medium Enterprises
- 2015 "Little Giant" Enterprise of Science and Technology in Yangpu district, Shanghai
- 2015 First prize of the Science and Technology Award granted by China Intelligent Transportation Association
- 2014 Shanghai Science & Technology Enterprise Innovation Award
- 2012 Third prize of Guangxi Science and Technology Progress Award



Anting, Shanghai International Automobile City

Anting, Shanghai International Automobile City started its construction in September 2001, with a planned area of 100 square kilometers. Currently, the total investment has exceeded 80 billion yuan. Over the past 15 years, the Auto City has become a comprehensive automotive industrial base and modern livable new town integrating auto R&D, manufacturing, trade, education, sports, exhibition and other services. In January 2011, Chinese government established Shanghai as an international EV demonstration city and Jiading as an international EV pilot zone. In July 2015, the Ministry of Industry and Information Technology (MIIT) formally approved the Auto City to build China's first ICV pilot zone. The pilot zone will embrace four stages of construction, aiming at building a regional ICV public service platform for testing and demonstration with complete functions.

In June 2015, MIIT approved Shanghai International Automobile City (Group) Ltd. to carry out the construction of China's first ICV pilot zone. On the basis of the demand of industrial and technical advances, the construction will take four stages, covering enclosed testing area, open roads, representative city and intercity corridors. It will build a regional, independent ICV public service platform for testing and demonstration with complete functions, and form an ICV industrial cluster with certain scale. Phase I enclosed testing and experience engineering of the pilot zone includes three enclosed zones, i.e., exhibition and experience zone of SAIC Exhibition Park (E-ZONE), scientific research zone of Jiading campus, Tongji University (T-ZONE), and the enclosed testing zone of Yining Road (F-ZONE). F-ZONE (Phase I) has officially opened on June 7, 2016.

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TIPTOP China Limited(www.tiptoptest.com) 道路测试技术领先者 The Leader In Road & Pavement Testing Technology

Past decade hard work, making us the leader in road & pavement testing technology; Looking forward, we'll expand in the field and achieve more brilliant.

Ten years ago, TIPTOP China Limited was established with the aim of "Excellent Quality, Achieve TIPTOP", in the field of Road Traffic and Civil Engineering Testing, and made a great success.

Now there are more than 50 employees in TIPTOP, 80% of them have the bachelor degree or above. The backbone staff have rich experience in this filed and familiar with the technical and regulatory requirements of the Road Traffic and Civil Engineering. TIPTOP started from a single equipment-sales company, now develops to a specialized comprehensive enterprise which covering with product R&D, manufacturing, equipment sales, commissioning and maintenance, equipment leasing, technical consulting, testing service, etc. TIPTOP registered as two companies, one in Hong Kong and one in Shanghai, and set up several branches and after-service centers in Beijing, Guangzhou and Changsha city. The products R&D center and production factory are based in Shanghai. TIPTOP also hired the well-known experts in the industry as the technical consultants, to promote the worldwide advanced testing technology in China. Besides as the agent of many worldwide famous products such as PaveTesting (UK), MLS (South Africa), MATEST (Italy), Pavetest (Australia), WILLE Geotechnik (Germany), etc., we also have our own brand products, such as Falling Weight Deflectometer (FWD), Laser Profiler(LP), Continuous Friction Tester(CFT). TIPTOP FWD is the ONLY one domestic FWD products which has got the international approval certificate.

TIPTOP devotes to Chinese road and traffic engineering industry, takes promoting the development of road and traffic testing technology as our responsibility. And set up the "TIPTOP Outstanding Students Scholarship" in the universities, to implement the school-enterprise cooperation. Sponsoring and/or participating in the major conferences. By interacting with foreign experts, introducing the international advanced technology and patents, TIPTOP is building an international professional team.





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Chinese Overseas Transportation Association (COTA)

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

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



Organizers CICTP2017



Tongji University is one of the leading universities in China under direct administration of Ministry of Education, listed on "Project 985" and "Project 211". With a history of over a century, Tongji has valued the balanced development of four functions, i.e. education, research, outreach, and culture inheritance and innovation.

The history of Tongji can be traced back to 1907 when German Medical School was founded by Erich Paulun, a German doctor in Shanghai. After being renamed Tongji German Medical School in the following year, it was formally established as a university in 1923. It became National Tongji University in 1927, one of the seven earliest national universities of China. Around 1949, Tongji already boasted five colleges of natural sciences, engineering, medical science, liberal arts and law, and enjoyed a fine reputation as a comprehensive university both home and abroad. Following a nationwide campaign of restructuring universities in 1952, Tongji became an engineering-intensive university with top-notch strength in civil engineering and architecture, which is second to none in terms of scale and number of disciplines. Since 1978, "two transforms" were launched, namely, the transforming to an international university by restoring links to Germany, and the transforming from a university focusing mainly on civil engineering to multi-disciplinary engineering university. In 1995, Tongji declared to be jointly built by the Ministry of Education and the Shanghai Municipal Government. By 2007 when it was celebrating its centennial, Tongji had become a comprehensive, international, research-oriented university with distinct features and global influence. In 2013, the university proposed its vision of "a sustainability-oriented, world-class university".

The university now covers 10 broad categories of academic disciplines, including engineering, science, medicine, management, economics, philosophy, literature, law, education and arts. The number of faculty stands at 2,786, of which 855 are professors, and 997 associate professors. The university now registers 18,581 full-time undergraduate students, 13,762 graduate students, and 4,279 PhD candidates. Another 2,197 international students are pursuing their degrees here.

The university offers 75 undergraduate majors (50 of which are enrolling students according to 17 broad disciplinary categories). It can grant master degrees in 55 broad academic disciplines, together with 15

Organizers

professional Master's programs and 26 engineering Master's programs. It also grants PhD degrees in 31 broad academic disciplines with 3 professional PhD programs and 25 post-doctoral mobile research stations. Of all the disciplines, 3 are first-level national key disciplines, 7 second-level national key disciplines, 3 second-level national key disciplines (incubated), and 17 first-level Shanghai disciplines. There are 3 State Key Laboratories, 1 National Engineering Lab, 5 National Engineering (Technology) Research Centers, and 26 ministerial/provincial-level key labs and engineering (technology) research centers as well as 7 affiliated hospitals and 4 affiliated high schools. Since its founding, Tongji has turned out nearly 300,000 graduates, among which many are extraordinary political leaders, scientists, educators, social activists, business leaders, medical specialists, and engineering technology experts. Over 140 alumni are academicians of the Chinese Academy of Sciences, or the Chinese Academy of Engineering.

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One hundred years of Tongji University, one hundred years of College of Transportation Engineering. As the most comprehensive College integrated with all related disciplines in the field of land transport in China, the College of Transportation Engineering of Tongji University consists of five departments and the Key Laboratory of the Ministry of Education, Traffic and Transportation Industry Collaborative Innovation Platform, Engineering Research Centers of the Ministry of Education and other institutions. The College presently has more than 174 faculties/staffs, among them there are 50 professors and 54 associate professors, 66 doctoral supervisors. There are 2 "Thousand Person Plan" professors, 2 Yangtze River scholars, 1 "National Outstanding Young People Fund winner, 4 "National Thousand Young People Plan" candidates and one group got the title of "Innovational Team of the Ministry of Education".

The College has the National Key Primary Discipline of Traffic and Transportation Engineering and possesses the doctorate awarding authority and post-doctoral research station of the primary discipline. Also, it sets up positions for Yangtze River scholars distinguished professor for highway and railway engineering, traffic information engineering and control. The graduate majors of traffic and transportation engineering, the undergraduate majors of traffic engineering, transportation engineering and logistics engineering were recognized in the first round of "The Plan of Excellent Engineer Education" launched by the Ministry of Education. At present, there are more than 850 enrolled undergraduate students and 700 graduate students.

In the long term, with the maxim of pursuing "Unity of Thought and Action, Art of Multi-disciplinary Fusion", the College had educated a large number of high level talents in the traffic and transportation area and contributed substantially to the national economy and constructions. It plays a significant role in the international academia and engineering. Nowadays, the College has formed "comprehensive, international, sustainable" discipline features. Its related achievements have greatly support the healthy development of the national economy, which makes it have significant impacts on the international society.



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Instructions for Presenters

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

Instructions for Session Chairs

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

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Program at a Glance

Date	Time	Session	Room
Thursday, July 6, 2017	09:00-21:00	Registration	Lobby of Crowne Plaza Shanghai Anting
	13:30-16:30	International Forum of Career Development for Students and Young Professionals	Room 124, Tongxin Building
	13:30-17:30	Deans' Forum for Transportation Schools	Room 405, Jiren Building
	07:30-08:30	Registration	1 st floor, Jiren Building
	08:30-09:15	OPENING CEREMONY	Room 101, Jiren Budling
	09:30-12:00	Keynote Session	Room 101, Jiren Budling
	13:30-15:20	Spotlight Session I: Big Data and Mobility	Room 405, Jiren Building
	15:40-18:00	Spotlight Session II: ITS in Practices	Room 405, Jiren Building
Friday, July 7, 2017		Meet the Editors-in-Chief	Room 124, Tongxin Building
	13:30-18:00	Invited Session 1 Intelligent Transportation System	Room 211, Jiren Building
		Invited Session 2 Rail Transit Operation & Management	Room 311, Jiren Building
		Invited Session 3 Transportation Geotechnics	Room 210, Jiren Building
		Invited Session 4 Infrastructure Materials and Maintenance	Room 209, Jiren Building
		Launching Ceremony of The Big Data Security - Trans Lab & Symposium on Transport System- and Cyber-security	Room 312, Jiren Building

		Workshop:Connected Vehicle Research and Open Source Cloud Microscopic Traffic Simulation	Room 309, Jiren Building
	18:30-20:30	The Conference Banquet	The Grand Enhance Ballroom, Crowne Plaza Shanghai Anting
	08:00-09:50	Spotlight Session III: Connected and Autonomous Driving	Room 405, Jiren Building
	10:00-12:30	Spotlight Session IV: Frontiers in ITS Data and Modeling	Room 405, Jiren Building
	08:30-12:30	Spotlight Session V: Driving Simulator	Room 224, Tongxin Building
		Invited Session 5: Traffic Safety	Room 211, Jiren Building
		Invited Session 6 : Network Modeling	Room 311, Jiren Building
Saturday, July 8, 2017	08:00-12:30	Invited Session 7 Risk Management for Autonomous Vehicles and Smart Transportation	Room 210, Jiren Building
		Invited Session 8 Intelligent & Green Highway	Room 209, Jiren Building
		2 nd Smart City-Driven Traffic Information Engineering and Control Discipline Development Forum	Room 312, Jiren Building
	08:30-17:30	COTA's Special Forum on Traffic Signal Control Practices	Room 124, Tongxin Building
	08:00-12:30	Student Forum 1: Traffic Flow Theory and Network	Room 201, Jiren Building
		Student Forum 2: Traffic Planning and Operation (I)	Room 202, Jiren Building
		Student Forum 3: Traffic Planning and Operation (II)	Room 203, Jiren Building
		Student Forum 4: Green Traffic	Room 301, Jiren Building
		Student Forum 5: Traffic Safety and Driving Behavior	Room 302, Jiren Building

		Student Forum 6: Logistics and Infrastracture	Room 303, Jiren Building
		Poster	1 st floor, Jiren Building
	13:30-15:20	PLENARY SESSION I: Academic Frontiers	Room 101, Jiren Budling
	15:40-18:00	PLENARY SESSION II: Towards a Smart City	Room 101, Jiren Budling
	13:30-15:20	PLENARY SESSION III: Smarter Urban Mobility	Room 312, Jiren Building
	15:40-18:00	PLENARY SESSION IV: Challenges and Opportunities	Room 312, Jiren Building
	18:30-19:30	Dinner	Chunhe Dining Hall
	08:30-12:10	The 8th COTA-World Bank China Transport Forum	Room 224, Tongxin Building
	08:00-09:50	Spotlight Session VI: Air Transport vs. High-Speed Rail: Competition or Cooperation?	Room 405, Jiren Building
	10:10-12:30	Spotlight Session VII: Technology Frontiers	Room 405, Jiren Building
		Invited Session 9 Freeway Operation and Management	Room 211, Jiren Building
		Invited Session 10: Public Transit	Room 311, Jiren Building
Sunday, July 9, 2017	08:00-12:30	Invited Session 11 Connected and Automated Transportation Systems	Room 210, Jiren Building
		Invited Session 12 Transportation Policy, Planning and Modeling	Room 209, Jiren Building
		Technical Session 1	Room 309, Jiren Building
		Technical Session 2	Room 310, Jiren Building
	08:30-12:00	Transportation Practioner's Forum	Room 124, Tongxin Building
	12:30-13:30	CICTP Best Paper Award and Closing Ceremony & Farewell Lunch	The Grand Enhance Ballroom, Crowne Plaza Shanghai Anting



Program CICTP2017

Thursday, July 6

International and Young Pro Moderators: Dr. Shanjiang Zhu, A Dr. Sean Qian, Assist	Forum of Career Development for Students13:30-16:30ofessionalsTongXin Building 124同心楼 124ssistant Professor. George Mason University, USAant Professor. Carnegie Mellon University, USA
13:30 - 13:50	Dr. Yanfeng Ouyang, Professor, University of Illinois at Urbana-Champaign, USA
13:50 - 14:10	Dr. Xiaolei Guo, Associate Professor, University of Windsor, Canada
14:10 - 14:30	Dr. Ke Han, Assistant Professor, Imperial College London, UK
14:30 - 14:50	Dr. Xiaobo Qu, Associate Professor, University of Technology Sydney, Australia
14:50 - 15:10	Dr. Xuesong Wang, Professor, Tongji University, China
15:10 - 15:25	Tea/Coffee Break
15:25 - 15:45	Dr. Lili Du, Associate Professor, Illinois Institute of Technology, USA
15:45 - 16:05	Dr. Hai Yang, Professor, Hong Kong University of Science and Technology, China
16:05 - 16:30	Panel Discussion

Program

Thursday, July 6

Deans' Forum for Transportation Schools Moderator: Dr. Jian Lu, Dean, Professor, College of Transportation Engineering, Tongji University, China Dr. Yuchuan Du, Vice Dean, Professor, College of Transportation Engineering, Tongji University, China		13:30-17:30 JiRen Building 405 济人楼 405
13:30 - 17:30	Invited Only	

Program CICTP2017

Friday, July 7

Opening Ceremony Chair: Dr. Jian Lu, Dean, Professor, College of Transportation Engineering, Tongji University, China		8:30-9:15 JiRen Building101 济人楼 101
Welcome Remai	'ks	
8:30 - 8:35	High Official from the Ministry of Transport, China	
8:35 - 8:40	Vice President of Tongji University, China	
8:40 - 8:45	Dr. Yu Zhang, President of COTA, Associate Professor, University of South	Florida, USA
8:45 - 8:50	Dr. Michael Walton, Professor, University of Texas at Austin, USA	
Photographing and	Coffee Break	8:50-9:30

Keynote Sessi Chair: Dr. Yu Zhang, USA	ON: 9:30-12:00 , President of COTA, Associate Professor, University of South Florida, JiRen Building101 济人楼 101
9:30 - 09:55	TBD High Official from the Ministry of Transport, China
09:55 - 10:20	Transformation Development Path Choice of Mega CityShanghai 2040 Transportation Strategies Dr. Xiaohong Chen, Professor, Tongji University, China
10:20 - 10:45	Expectations of Transportation Technology and Operations Dr. C. Michael Walton, Member of the U.S. National Academy of Engineering (NAE), Professor at the University of Texas at Austin, USA
10:45 - 11:10	A Revenue-preserving and Pareto-improving Strategy for Managing Transit Peak-hour Congestion Dr. Hai Yang, Professor, The Hong Kong University of Science and Technology, China
11:10 - 11:35	Real-time ACC Exploitation for Improved Motorway Traffic Flow Dr. Markos Papageorgiou, Former Chief Editor of TR-C, Professor at the University of Crete, Greece
11:35 - 12:00	The Future of Transportation Dr. Robert L. Bertini, Professor, Director of CUTR, University of South Florida, USA

Program

Friday, July 7

Spotlight Sess Chair: Dr. Marco N	sion I: Big Data and Mobility ie, Professor, Northwestern University, USA	13:30 – 15:20 JiRen Building 405 济人楼 405
13:30 - 13:50	The Role of Innovations in Improving Transportation Systems Dr. Asad Khattak, Professor, University of Tennessee, USA	
13:50 - 14:10	Adaptive Coordinated Traffic Control for Stochastic Demand Dr. Hong K. LO, Professor, The Hong Kong University of Science and Tech	nology, China
14:10 - 14:30	How can the Taxi Industry Survive the Tide of Ridesourcing? Evidence Dr. Yu (Marco) Nie, Professor, Northwestern University, USA	from Shenzhen, China
14:30 - 14:50	Planning of Parking Enforcement Patrol Considering Drivers' Parking P Dr. Yanfeng Ouyang, Professor, UIUC, USA	ayment Behavior
14:50 - 15:10	Big Data at Didi Chuxing Dr. Jieping Ye, Vice President of DiD Chuxing, Associate Professor at /U Arbor, USA	niversity of Michigan Ann
15:10 - 15:20	Q & A	
15:20 - 15:40	Tea/Coffee Break	
Spotlight Sess Chair: Dr. Jianming	sion II: ITS in Practices Ma, Texas Department of Transportation, USA	15:40 - 18:00 JiRen Building 405 济人楼 405
Spotlight Sess Chair: Dr. Jianming 15:40 – 16:00	sion II: ITS in Practices Ma, Texas Department of Transportation, USA The Future of Transportation in Honolulu Mr. Mark Garrity, AICP, OC Global, Tokyo, Japan	15:40 – 18:00 JiRen Building 405 济人楼 405
Spotlight Sess Chair: <i>Dr. Jianming</i> 15:40 – 16:00 16:00 – 16:20	sion II: ITS in Practices Ma, Texas Department of Transportation, USA The Future of Transportation in Honolulu Mr. Mark Garrity, AICP, OC Global, Tokyo, Japan Innovation in Performance Based Traffic Signal Operations in US Mr. Ken Yang, Senior Engineer, AECOM, Inc., USA	15:40 – 18:00 JiRen Building 405 济人楼 405
Spotlight Sess Chair: <i>Dr. Jianming</i> 15:40 – 16:00 16:00 – 16:20 16:20 – 16:40	sion II: ITS in Practices Ma, Texas Department of Transportation, USA The Future of Transportation in Honolulu Mr. Mark Garrity, AICP, OC Global, Tokyo, Japan Innovation in Performance Based Traffic Signal Operations in US Mr. Ken Yang, Senior Engineer, AECOM, Inc., USA Finance a Mass Transit System – A Case of Honolulu Rail Project Dr. Honglong Li, Senior Engineer, Hawaii DOT, USA	15:40 - 18:00 JiRen Building 405 济人楼 405
Spotlight Sess Chair: <i>Dr. Jianming</i> 15:40 – 16:00 16:00 – 16:20 16:20 – 16:40 16:40 – 17:00	sion II: ITS in Practices Ma, Texas Department of Transportation, USA The Future of Transportation in Honolulu Mr. Mark Garrity, AICP, OC Global, Tokyo, Japan Innovation in Performance Based Traffic Signal Operations in US Mr. Ken Yang, Senior Engineer, AECOM, Inc., USA Finance a Mass Transit System – A Case of Honolulu Rail Project Dr. Honglong Li, Senior Engineer, Hawaii DOT, USA System Integration Challenges in Large-Scale ITS Projects Dr. Jingcheng Wu, Ph.D., P. E., Senior Project Manager, HDR, USA	15:40 - 18:00 JiRen Building 405 济人楼 405
Spotlight Sess Chair: Dr. Jianming 15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 16:40 - 17:00 17:00 - 17:20	 sion II: ITS in Practices Ma, Texas Department of Transportation, USA The Future of Transportation in Honolulu Mr. Mark Garrity, AICP, OC Global, Tokyo, Japan Innovation in Performance Based Traffic Signal Operations in US Mr. Ken Yang, Senior Engineer, AECOM, Inc., USA Finance a Mass Transit System – A Case of Honolulu Rail Project Dr. Honglong Li, Senior Engineer, Hawaii DOT, USA System Integration Challenges in Large-Scale ITS Projects Dr. Jingcheng Wu, Ph.D., P. E., Senior Project Manager, HDR, USA Mitigate Shadow Impacts for Video-based Traffic Data Collection based Signals Dr. Guohui Zhang, University of Hawaii, USA 	15:40 - 18:00 JiRen Building 405 济人楼 405
Spotlight Sess Chair: Dr. Jianming 15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 16:40 - 17:00 17:00 - 17:20 17:20 - 17:40	 sion II: ITS in Practices Ma, Texas Department of Transportation, USA The Future of Transportation in Honolulu Mr. Mark Garrity, AICP, OC Global, Tokyo, Japan Innovation in Performance Based Traffic Signal Operations in US Mr. Ken Yang, Senior Engineer, AECOM, Inc., USA Finance a Mass Transit System – A Case of Honolulu Rail Project Dr. Honglong Li, Senior Engineer, Hawaii DOT, USA System Integration Challenges in Large-Scale ITS Projects Dr. Jingcheng Wu, Ph.D., P. E., Senior Project Manager, HDR, USA Mitigate Shadow Impacts for Video-based Traffic Data Collection based Signals Dr. Guohui Zhang, University of Hawaii, USA Big Data for Better Planning Mr. Luke Cheng, Regional Director of Citilab, USA 	15:40 - 18:00 JiRen Building 405 济人楼 405

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Friday, July 7

Meet the Edito Chair: Dr. Zhen (Sea	o rs-in-Chief n) Qian, Assistant Professor, Carnegie Mellon University, USA	15:40 - 18:00 Tongxin Building 124 同心楼 124
15:40 - 16:00	Opening Remarks and Introduction	
16:00 - 16:20	Dr. Kay Axhausen, Editor-in-chief, Transportation	
16:20 - 16:40	Dr. Oliver Gao, Editor-in-chief, Transportation Research Part D: Tran	sport Environment
16:40 - 17:00	Dr. Hai Yang, Editor-in-chief, Transportation Research Part B: Metho	dological
17:00 - 17:20	Dr. Kelvin Cheu, Editor-in-chief, International Journal of Transportat	ion Science & Technology
17:20 - 17:40	Dr. Yafeng Yin, Editor-in-chief, Transportation Research Part C: Eme	rging Technologies
17:40 - 18:00	Q & A	


Friday, July 7

Invited Sessic Chair: Dr. Pu Wang Co-Chair: Dr. Keshu	on 1: Intelligent Transportation System , Professor, Central South University, China , ang Tang, Tongji University, China	13:30 - 18:00 JiRen Building 211 济人楼 211
13:30 - 13:40	Opening Remarks Dr. Pu Wang, Professor, Central South University, China	
13:40 - 14:05	A Social Media Data Based Traffic Sensing System Dr. Pu Wang, Professor, Central South University, China	
14:05 -14:30	Location Optimization and Release Strategies for Urban Parking Guidance Under Connected Vehicle Environment Dr. Jian Sun, Professor, Shanghai Jiaotong University, China	e Information System
14:30 - 14:55	Analysis of Transport Network Flow with Multi-Source Big Data Dr. Zhiyuan Liu, Professor, Southeast University, China	
14:55 - 15:20	Individual Travel Graph based Behavior Analysis and Classification f Travelers Dr. Jiancheng Weng, Associate Professor, Beijing University of Technology, Cl	for Public Transport hina
15:20- 15:40	Tea/Coffee Break	
15:40 - 16:05	Smart Transportation in Didi-Chuxing Mr. Jinqing Zhu, Principal Engineer, Didi-Chuxing, China	
16:05 -16:30	Exploration and Practice of Urban Traffic Intelligent Computing Framewor Dr. Zhaocheng He, Professor, Sun Yat-Sen University, China	k
16:30 -16:55	Study on Driver Reaction Time in the Connected Vehicles Environment (#9 Dr. Xiaoyu Cai, Professor, Chongqing Jiaotong University, China	921)
16:55 -17:20	Cycle-by-Cycle Estimation of Queue Length and Traffic Volume at Signalize Vehicle Trajectory Data Dr. Keshuang Tang, Associate Professor, Tongji University, China	ed Intersections using
17:20 -17:50	Q&A and Open Discussion	
17:50 - 18:00	Closing Remarks Dr. Keshuang Tang, Associate Professor, Tongji University, China	

Friday, July 7

Invited Session 2: Rail Transit Operation & Management13:30 - 18:00Chair: Dr. Lianbo Deng, Professor, Central South University, ChinaJiRen Building 311Co-Chair: Dr. Wei Zhu, Associate Professor, Tongji University, China济人楼 311		
13:30 - 14:05	LRT Development in Alberta, Canada Dr. Zheng Luo, Senior Engineer, IBI Group Inc., Canada	
14:05 -14:40	Rescheduling a Metro Line in an Over-Crowded Situation after Disruptions Dr. Yuan Gao, Associate Researcher, Beijing Jiaotong University, China	
14:40 - 15:15	Optimizing Bus Bridging Services in Response to Disruption of Urban Transit Rail Networks Dr. Jiangang Jin, Associate Professor, Shanghai Jiao Tong University, China	
15:15-15:40	Tea/Coffee Break	
15:40 - 16:15	Fare and Subsidies Strategy for Urban Rail System Dr. Lianbo Deng, Professor, Central South University, China	
16:15 -16:50	Data-driven Metro Rolling Stock Maintenance Regime Optimization with Integrated Vehicle Health Management (IVHM)	
	Mr. Di Yang, Engineering Director, Shengtong Bombardier (Shanghai) Rail Transit Vehicle Maintenance Co.ltd, China	
16:50 -17:25	Validating Rail Transit Assignment Models using Cluster Analysis and Automatic Fare Collection Data	
	Dr. Wei Zhu, Associate Professor, Tongji University, China	
17:25 -18:00	Train Rescheduling Strategies in a Complete Blockage: Compare the Two Rescheduling Strategies Applied in Chinese Railway and Dutch Railway (#76)	
	Dr. Shuguang Zhan, Assistant Professor, Southwest Jiaotong University, China.	

Invited Session 3: Transportation Geotechnics Chair: Dr. Zhe Luo, Professor, Tongji University, China

13:30 - 18:00

JiRen Building 210

济人楼 210

13:30 - 13:55	Asphalt Concrete Sealing Technique of the High-Speed Railway Subgrade Surface Dr. Degou Cai, Professor, China Academy of Railway Sciences		
13:55 - 14:20	Discrete Element Simulation and Experimental Study on Cyclical Weakened Behavior of Crushed Stone Subjected to Traffic Load		
	Dr. Jiangu Qian, Professor, Tongji University, China		
14:20 - 14:45	Numerical Simulations in Ballast Railway Track		
	Dr. Hai Huang, Associate Professor, The Pennsylvania State University, USA		
14:45 - 15:10	Experimental Study on Dredged Soft Subgrade Improvement by the Combined Vacuum Preloading and Surcharge Method		
	Dr. Jun Wang, Professor, Wenzhou University, China		

Friday, July 7

15:10 - 15:55	Tea/Coffee Break
15:55 - 16:20	Arching in Geogrid-Reinforced Pile-Supported Embankments for High Speed Railways
	Dr. Xianfeng Liu, Professor, Southwest Jiaotong University, China
16:20 - 16:45	Research on Vehicle-Track-Bridge Interactions in Cure Section
	Dr. Jin Shi, Professor, Beijing Jiaotong University, China
16:45 - 17:10	Simplified Framework for Reliability Analysis of Flexible Pavement Using Mechanistic Empirical Pavement Design Guide
	Dr. Zhe Luo, Professor, Tongji University, China
17:10 - 17:35	Study on Interface Stress between Railway Ballast and Subgrade Based on Coupled DEM-FDM
	Dr. Junhua Xiao, Professor, Tongji University, China
17:35 - 18:00	Effect of Rail Weld Irregularities on Dynamic Characteristics of Heavy Haul Railway's Track- Subgrade System (#908)
	Dr. Xinwen Yang, Associate Professor, Tongji University, China

Invited Session 4: Infrastructure Materials and Maintenance

13:30 - 18:00 JiRen Building 209 这人様 200

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Chair: Dr. Feng Li, Professor, Beihang University, China

	77人任 209
13:30 -13:55	Dynamic Response of Asphalt Pavement
	Dr. Zejiao Dong, Professor, School Dean Assistant, Harbin Institute of Technology, China
12.55 14.20	Characterizing the Asphalt Pavement Skid Resistance Based on Aggregate Consensus Properties
15:55 -14:20	Dr. Hainian Wang, Professor, Chang'an University, China
14:20 - 14:45	Evaluation of Emission and Mechanical Performance of Rubber Warm Mix Asphalt
	Dr. Zhanping You, Professor, Michigan Technological University, USA
	Microscopic Mechanism Study on the Aging of High SBS Content Modified Asphalt:
14:45 - 15:10	Characterization and Evaluation
	Dr. Weidong Huang, Professor, Tongji University, China
15:10 - 15:40	Tea/Coffee Break
15.40 16.05	Asphalt Pavement Materials Design in China
15:40 - 16:05	Dr. Songtao Lv, Associate Professor, Changsha University of Science & Technology, China
16.05 16.20	Characterization and Utilization of Stabilized Rubber Asphalt
16:05 - 16:30	Dr. Tao Ma, Professor, Southeast University, China
16:30 - 16:55	Asphalt Pavement Crack Sealing
	Dr. Feng Li, Professor, Beihang University, China
16:55 - 17:30	Q&A



Friday, July 7

Launching Ceremony of The Big Data Security - Trans Lab & Symposium on Transport System- and Cyber-security

13:30 - 17:00 JiRen Building 312 济人楼 312

Chair: Dr. Bing Wu, Dean, Professor, College of Transportation Engineering, Tongji University, China

13:30-14:00	Registration			
Launching Ceremony of The Big Data Security - Trans Lab				
14:00-14:05	Opening Remarks	Bing Wu	Dean of College of Trans. Eng., Tongji University	
14:05-14:15	Welcome Speech	Vice President, Tongji University		
14:15-14:25	Welcome Speech	Chief Engineer, Ministry of Transportation, China		
14:25-14:35	Welcome Speech	Yunkun Wu	Vice Director of National Engineering Lab of The Big Data Security	
14:35-14:45	Welcome Speech	Chongqing Guo	"Academician of Chinese Academy of Engineering	
14:45-14:55	BiDaS-T Lab	Xinghua Li	Professor Director of The Big Data Security - Trans Lab Executive Vice Dean of National Institute of Innovation and Development, Tongji University	
14:55-15:00	Launching Ceremony of The Big Data Security - Trans Lab			
	Sympos	ium on Transport S	System- and Cyber-security	
15:00-15:20	Invited Talk	Luyao Li	Director of Center for China Transport Information Security	
15:20-15:40	Invited Talk	Hongduo Zhao	Professor, College of Transportation Engineering, Tongji University	
15:40-16:00	Invited Talk	Jianhao Liu	Director of Skygo Lab, 360	
16:00-16:20	Invited Talk	Bo Liu	Senior Vice President of DBAPPSecurity	
16:20-16:40	Invited Talk	Qinghua Yang	Vice President of Hillstone Networks	
16:40-17:00	Invited Talk	Xiaohu Ye	Ye Senior Vice President of NSFOCUS	
18:00-19:30 Reception (Urban Island Hotel Shanghai)				

Friday, July 7

Workshop: (Connected Vehicle Research and Open Source	13:30 – 18:10 JiRen Building 309
Cloud Microscopic Traffic Simulation 济人格		
Manaaement	g, President, New Global Systems for Intelligent Transportation	
Dr. Yunlong 2	Zhang, Professor, Department of Civil Engineering, Texas A&M	
Dr. Mingzhou	Jin, Professor, University of Tennessee, Knoxville	
Introductions		13:30-13:45
Session I (Li Zhang	ŋ, Mingzhou Jin)	13:45- 14:30
13:45 - 14:00	Connected Vehicle Research Hardware/ Communication in the Loop S	imulation Platform
14:00 - 14:15	ETFOMM and Connected Vehicle Research	
14:15 - 14:30	Surrogate Safety Assessment Model	
Session 2: Advance Calibrations (Li Zl	ed Computing in ETFOMM/SSAM and Model Validations/ nang, Yunlong Zhang)	14:30 - 15:20
14:30 - 14:55	Advanced Computing in ETFOMM/SSAM	
14:55 – 15:20	Model Validations/Calibrations	
Tea/Coffee Break 15:20 - 1		15:20 - 15:40
Session 3: Hands-on or Demo of ETFOMM/SSAM APIs (Li Zhang, Yunlong Zhang) 15:40 -		15:40 - 17:00
15:40 - 16:10	Traffic Signal Control	
16:10 - 16:40	Freeway Vehicle Movement	
16:40 - 17:00	SSAM APIs	
Session 4: ETFOM	M/SSAM Examples (Li Zhang, Yunlong Zhang)	17:00 - 18:10
17:00 - 17:10	Roundabout	
17:10 - 17:20	Simple Freeway with Ramps	
17:20 - 17:30	Simple Freeway with Weavings	
17:30 - 17:40	Arterial with Coordination	
17:40 - 17:50	Complicated Freeway to Freeway Interchanges	
17:50 - 18:00	Diamond Interchanges	
18:00 - 18:10	Diverging Diamond Interchanges	

Saturday, July 8

Spotlight Session III: Connected and Autonomous Driving Chair: Dr. Kelvin Cheu, Professor, University of Texas EI Paso, USA8:00 - 9:5 JiRen Building 40 济人楼 40		
08:00 - 08:20	Constrained Optimization and Distributed Computation based Car Following Control of A Connected and Autonomous Vehicle Platoon Dr. Lili Du, Assistant Professor, Illinois Institute of Technology, USA	
08:20 - 08:40	Macroscopic Model for Spatiotemporal Information Propagation Wave in a Congested Vehicle- to-vehicle Communication Environment Dr. Xiaozhena He, Assistant Professor, RPI, USA	
08:40 - 09:00	Ridesharing with Autonomous Vehicles Considering Activity Duration Uncertainty Dr. Xiaolei Guo, Associate Professor, University of Windsor, Canada	
09:00 - 09:20	Potential Implications of Autonomous Vehicle Technologies on Travel Behavior Dr. Xia Jin, Associate Professor, Florida International University, USA	
09:20 - 09:40	Impact of Vehicle Automation on Emission and Ride Comfort Dr. Simon Hu, Research Fellow (Assistant Professor), Imperial College London, UK	
09:40 - 09:50	Q & A	
9:50 - 10:00	Tea/Coffee Break	

Spotlight Sess Chair: Dr. Ping Yi, P	Sion IV: Frontiers in ITS Data and Modeling10:00-12:30Trofessor, University of Akron, USAJiRen Building 405济人楼 405
10:00 - 10:20	Optimization Multi-Vehicle Longitudinal Trajectories based on Simple Car-following Models Dr. Xuesong Zhou, Associate Professor, Arizona State University, USA
10:20 - 10:40	Modeling Congestion Effect of E-Hailing Services Dr. Jeff Ban, Associate Professor, University of Washington Seattle, USA
10:40 - 11:00	Statistical Inference of Probabilistic Origin-destination Demand using Day-to-day Traffic Data Dr. Sean Qian, Assistant Professor, Carnegie Mellon University, USA
11:00 - 11:20	Incorporating roadway safety into a personal navigation application Dr. Xiao Qin, Associate Professor, University of Wisconsin Milwaukee, USA
11:20 - 11:40	Measuring Network-Wide Freeway Performance using Multi-Source Data Dr. Yao-Jan Wu, Assistant Professor, University of Arizona, USA
11:40 - 12:00	Towards Autonomous Driving: A Lane Changing Decision Model Based on Fuzzy Influence Systems

Saturday, July 8

	Dr. Kelvin Cheu, Professor, University of Texas EI Paso, USA
12.00 - 12.20	Development and Testing of a Real-Time Performance Evaluation System for an Urban Traffic Network
12:00 12:20	Dr. Ping Yi, Professor, University of Akron, USA
12:20-12:30	Q & A

Spotlight Se	8:30 - 12:30	
Chair: Dr. Xuesor	Tongxin Building 224 同心楼 224	
Session I: Drivin	ng behavior research using driving simulators	
8:30-8:35	Opening Remarks	
8:35-8:55	Improved Driver Responses with Green and Red Signal Countdown timers Dr. David Hurwitz, Associate Professor, Oregon State University, USA	
8:55-9:15	How Does Intersection Field of View Influence Driving Safety in an Emergent Situation? Dr. Xuedong Yan, Professor, Beijing Jiaotong University, China	
9:15-9:35	A Driver Behavior Study on Handover Issues in Autonomous Driving based on Driving Simulator. Dr. Hui Zhang, Wuhan University of Technology, China	
9:35-9:55	5-9:55 Title TBD Dr. Yan Gao, Associate Research Fellow Traffic Management Research Institute of the Ministry of Public Security, China	
9:55-10:15	Effects and Optimization Method of Traffic Control Devices on Driving Behavior Dr. Xiaohua Zhao, Professor, Beijing University of Technology, China	
10:15-10:35	0:15-10:35 Coffee/Tea Break	
Session II: State of art in driving simulation techniques and applications		
10:35-10:55	Virtual Traffic Environment for Driving Simulator Dr. Hu Su, Southwest JiaoTong University, China	
10:55-11:15	Training Bus Drivers Using Driving Simulator: a Singapore application Dr. Chen Chai, Associate Research Fellow, Tongji University, China	
11:15-11:35	Application of Driving Simulator in Road Design and Optimization Dr. Weihan Zhang, Road Safety Research Center of Research Institute of Highway Ministry of Transportation, China	
11:35-11:55	Application of Tongji University Driving Simulator in Traffic Safety Studi Dr. Xuesong Wang, Professor, Tongji University, China	es
11:55-12:30	Discussion and Closure of the forum	

Saturday, July 8

Invited Session 5: Traffic Safety8:00 - 12:30Chair: Dr. Mohammed Quddus, Loughborough University, UKJiRen Building211济人楼 211		
8:00 - 8:35	Variable Speed Limit Systems for Road Safety Improvement Dr. Helai Huang, Vice Dean of School of Traffic and Transportation Engineering, Central South University, China	
8:35 - 9:10	Data Mining of Pedestrian-vehicle Traffic Events for the Evaluation of Driving Strategy of Automated Vehicle Dr. Quan Yuan, Associate researcher, Tsinghua University, China	
9:10 - 9:45	Development of Real-time Crash Risk Assessment Model with Limited Data Dr. Chengcheng Xu, Assistant Professor, Southeast University, China	
9:45 - 10:10	Tea/Coffee Break	
10:10 - 10:35	New Thoughts for Urban Expressway Real-time Crash Risk Analysis Dr. Rongjie Yu, Associate Professor, Tongji University, China	
10:35 - 11:00	Management Method and Application of Eco-Driving Behavior Optimization Dr. Yiping Wu, Beijing University of Technology, China	
11:00 - 11:25	Driving Characteristics and Safety Analysis Using Field Operational Tests Data Dr. Nengchao Lyu, Associate Professor, Wuhan Technology University, China	
11:25 - 11:50	Research on Driver's Attention Characteristics in Multiple Risk Traffic Situation (#527) Dr. Huasen Wan, Associate Professor, Kunming University of Science and Technology	
11:50 - 12:15	Vehicle Trajectory Typologies at Curved Sections of Complex Two-Lane Mountain Roads (#40) Dr. Jin Xu, Professor, Chongqing Jiaotong University	
12:15 - 12:30	Q & A	

Invited Session 6: Network Modeling8:00 - 12:10Chair: Dr. WY Szeto, Associate Professor, The University of Hong Kong, ChinaJiRen Building 311济人楼 311		
8:00 - 8:30	Reliability-Based Stochastic Transit Assignment: Formulations and Capacit	y Paradox
	Dr. WY Szeto, Associate Professor, The University of Hong Kong, China	
8:30 - 9:00	Tolled Network Equilibrium: Heterogeneous Values of Time and Bounds or	n Toll
	Dr. Chi Xie, Professor, Shanghai Jiao Tong University, China	

Saturday, July 8

9:00 - 9:30	Statistical Metamodeling of Dynamic Network Loading Dr. Ke Han, Assistant Professor, Imperial College London, UK
9:30 - 9:45	PTV Vision Traffic Software Applications in New Era Dr. Chang Shen, Senior Customer Service Manager, PTV China, China
9:45 - 10:00	Tea/Coffee Break
10:00 - 10:30	Dynamic Traffic Assignment in Degradable Networks: Paradoxes and Formulations with Stochastic Link Transmission Model Dr. Jiancheng Long. Professor. Hefei University of Technology. Ching
10:30 -11:00	Are We Really Solving the Dynamic Traffic Equilibrium Problem with a Departure Time Choice? Dr. Ren-Yong Guo, Professor, Beihang University, China
11:00 -11:30	Maximizing Route Diversity Redundancy in Network Design Problem Dr. Xiangdong Xu, Associate Professor, Tongji University, China
11:30 -12:00	Stochastic Traffic Assignment Paradox Analysis Considering Congestion Effect (#522) Dr. Jia Yao, Associate Professor, Harbin Institute of Technology, China
12:00 - 12:10	Q & A

Invited Session 7: Risk Management for Autonomous Vehicles and Smart Transportation

8:00 - 12:20 JiRen Building210 济人楼 210

Chair: Dr. Huizhao Tu, Professor, Tongji University, China **Co-Chair:** Dr. Saini Yang, Professor, Beijing Normal University, China

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8:00 - 8:25	Driving with Automation Dr. Bart van Arem, Professor, TUDelft, The Netherlands
8:25- 8:50	Strategic Thinking of Modern and Comprehensive Development of the Transportation Informationization
	Dr. Desheng Cao, Director General, China Transport Telecommunications & Information Center, China
8:50 - 9:15	An Analytical Approach for Cascading Effects within Critical infrastructure systems Dr. Saini Yang, Professor, Beijing Normal University, China
9:15 - 9:40	Next-Generation Urban Management: When Human Mobility Modeling Meets Big Data Dr. Xuan Song, Project Associate Professor, The University of Tokyo, Japan
9:40 - 10:00	Tea/Coffee Break
10:00 - 10:25	Application of Generalized Betweenness to Access the Criticality of Components in Transport Networks Dr. Xiaobing Hu, Associate Professor, Beijing Normal University, China

Saturday, July 8

10:25 -10:50	Connected Vehicles for Weight-based Traffic Safety Risk Management
	Dr. Huizhao Tu, Professor, Tongji University, China
10:50 -11:15	The Blueprint of ICV (Internet of Vehicles) Based on Vehicle CyberSecurity
	Dr. Jianhao Liu, Director, 360 ICV Cybersecurity lab, China
11:15 -11:40	An Agent based Modeling of Unplanned Infrastructure Network Disruptions for Evidence- Driven Resource Allocation and Retrofitting
	Dr. Haizhong Wang, Assistant Professor, Oregon State University, USA
11:40 -12:05	Risk Assessment of Transportation Infrastructure System Subject to Natural Hazards
	Dr. Kai Liu, Associate Professor, Beijing Normal University, China
12:05 - 12:20	Discussions

Invited Sessic Chair: Dr. Hongduo Professor, To	on 8: Green & Intelligent Highway 8:00 - 12:30 Zhao & Dr. Hui Li JiRen Building209 Ongji University, China 济人楼 209
8:00 - 8:30	Design Theory and Method of Durable Subgrade in South China Dr. Junhui Zhang, Professor, Changsha University of Science & Technology, China
8:30 - 9:00	Preparation and Application of Automobile Exhaust Degradation Coating Materials Dr. Jiupeng Zhang, Associate Professor, Chang'an University, China
9:00 - 9:30	Key Technology and Engineering Application of Green and Safety Functional Asphalt Pavement Dr. Sang Luo, Associate Professor, Southeast University, China
9:30 - 10:00	The Concept of Smart Road Dr. Hongduo Zhao, Professor, Tongji University, China
10:00 - 10:10	Tea/Coffee Break
10:10 - 10:40	Intelligent Decision-Making in Highway Maintenance Programming Dr. Haizhu Lu, Research Fellow, Jiangsu Expressway Engineering Maintenance Technology Center, China
10:40 - 11:10	Interaction between New and Age-hardened Binders in Asphalt Mixes Containing High Quantities of Reclaimed Asphalt Pavement and Reclaimed Asphalt Shingles Dr. Yuan He, VP in Project Appraisal Department II, China Development Bank, China
11:10 - 11:40	Green & Smart Highway: Overview of Integrated Technologies Dr. Hui Li, Professor, Tongji University, China
11:40 -12:00	Panel Discussion

2 nd Smart City Control Discip Organizing Comm	r-Driven Traffic Information Engineering and pline Development Forum ittee Chair: Dr. Heng Wei, Professor, University of Cincinnati
Opening Remarks	
Moderator	Dr. Yinhai Wang, Forum Steering and Advisory Committee Member; Professor, University of Washington, USA.
8:05 - 8:10	Dr. Heng Wei, Forum Organizing Committee Chair; Professor, University of Cincinnati, USA.
8:10 - 8:15	Dr. Jizhen Guan, Forum Steering and Advisory Committee Chair; Chairman of the Board, Beijing Stone ITS Integration Co., Ltd., China.
Invited Presentati	on: State-of-the-Art Transportation Technology Innovations
Moderator	Dr. Xiaoguang Yang, Forum Steering and Advisory Committee; Professor, Tongji University, China.
8:20 - 8:40	Data-driven Traffic Signal Control
	Dr. Yunpeng Wang, Forum Steering and Advisory Committee Co-Chair; Vice President, Beijing University of Aeronautics and Astronautics, China.
8:40 -9:00	Progress of Connected Vehicle Research and Testing Technology
	Dr. Xiangmo Zhao, Forum Steering and Advisory Committee Member; Vice President, Chang'an University, China.
Invited Presentati	on: Smart Transportation Data and Information
Moderator	Dr. Heng Wei, Forum Organizing Committee Chair; Professor, University of Cincinnati, USA.
9:05 -9:25	OpenITS Data Development and Application Mechanisms
	Dr. Zhi Yu, Forum Steering and Advisory Committee Member; Professor, Sun Yat-sen University, China.
0.25 0.45	Creative Development of Internet Big Data and Smart Transportation
9:25 - 9:45	Mr. Zhenning Dong, Vice President, Alibaba-Autonavi Software Co., Ltd., China.
9:45 - 10:00	Tea/Coffee Break
Invited Presentati	on: Highlight of Practical Problems
Moderator	Dr. Hai Yang, Forum Steering and Advisory Committee Member; Professor, Hong Kong University of Science and Technology, China.
	Emerging Challenges and New Development of ITS
10:05 - 10:25	Dr. Jizhen Guan, Forum Steering and Advisory Committee Chair; Chairman of the Board, Beijing Stone ITS Integration Co., Ltd., China.
10.25 10.45	Traffic System Health Analysis and Intelligent Diagnosis - The New Direction of Traffic Information and Control Discipline Development
10:25 -10:45	Dr. Xiaoguang Yang, Forum Steering and Advisory Committee Member; Professor, Tongji University, China.

Panel Discussion	
Moderator	Dr. Guohui Zhang, Forum Organizing Committee, Assistant Professor, University of Hawaii at Manoa, USA; Dr. Wanjing Ma, Forum Organizing Committee, Professor, Tongji University, China; Dr. Xiaofeng Chen, Forum Organizing Committee, Associate Professor, Northwestern Polytechnic University, China.
10:50 -12:10	 Participants: Domestic and international experts and scholars, department heads, chairmen, and leaders from the relevant research institutes and universities Discussion Topics: Connected vehicle-based information sharing and control coordination: technology innovation and education integration Big data initiative-driven traffic information sharing and knowledge extraction: the strength and weakness of the existing traffic information engineering and control discipline to lead this effort The opportunities and challenges of traffic information engineering and control discipline growth under smart city initiatives: Opportunities and collaborations for National Science Foundation China (NSFC) application Enhanced scholarship and achievement recognition by the top journals
Closing Remarks	
12:10 - 12:20	Dr. Zhang, President of COTA; Associate Professor, University of South Florida, USA.
12:20 -12:30	Dr. Yinhai Wang, Forum Advocate and Steering and Advisory Committee Member; Professor, University of Washington, USA.

COTA's Special Forum on Traffic Signal Control Practices8:30 - 17:30	
-	JiRen Building124
	济人楼 124
8.20 8.40	Opening
0.50 0.10	Dr. Zongzhong Tian, Professor, University of Nevada Reno, USA
Session 1: Practica	l-Oriented Traffic Signal Control Theories
Moderator	Dr. Keping Li, Professor, Tongji University, China
8:40 - 9:05	Fill the Enlarging Gap between Traffic Signal Research and Practice: Theories, Modeling and Computing
	Dr. Pengfei Li, Assistant Professor, Mississippi State University, USA
0.05 0.20	Progression Optimization Considering Vehicular Origin and Destination Information
9:05 - 9:50	Dr. Yuanchang Xie, Associate Professor, University of Massachusetts, Lowell, USA
	Energy-Optimal Signal Control for Electric Vehicles under V2X Environment
9:30 - 9:55	Dr. Xinkai Wu, Assistant Professor, California State University, Pomona, USA & Beijing University of Aeronautics and Astronautics, China
	Optimization of Vehicle and Pedestrian Signals at Isolated Intersections
9:55 – 10:20	Dr. Wanjing Ma, Professor, Tongji University, China
10:20 - 10:40	Tea/Coffee Break
Session 2: Sharing	the Successful Stories and Experiences of Signal Control Practices
Moderator	Dr. Wei Liu, Professor, Chongqing Jiaotong University, China
10.40 11.05	Traffic Signal Management Service in China - Mode and Simple Cases
10:40 - 11:05	Dr. Ningning Chen, Guangdong Zhenye UCTRLl Technology Corp. Ltd, China
11.05 - 11.30	Interpretation of the Key Codes for Intersection Signal Control – The Case of Anhui Province
11.05 - 11.50	Dr. Keping Li, Professor, Tongji University, China
11.30 - 11.55	Multi-source Data Based Arterial Signal Coordination Performance Evaluation
11.50 11.55	Mr. Aobo Wang, University of Nevada, Reno, USA
11:55 - 12:20	Sharing the Experience of Signal Control Applications in City of Shanghai
11.55 12.20	Mr. Ruwen Han, Shanghai Traffic Police Corps, China
Session 3: New Technologies and Techniques for Improving Signal Control Practice	
Moderator	Dr. Ruimin Li, Professor, Tsinghua University, China
14.00 . 14.25	Comparison of Adaptive Signal Control Systems
14:00 - 14:25	Mr. Fusheng Zhang, Senior Engineer, North China University of Technology, China
14.25 14.50	Present and Prospect – What AI (Artificial Intelligence) does for the Signal Optimization
14:25 - 14:50	Mr. Sunrong Yan, Baidu Map Open Platform Department of Smart Transportation, China

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14:50 - 15:15	Traffic Signal Optimization with Didi's Vehicle Trajectory Data Dr. Weili Sun, University of Michigan, Ann Arbor, USA	
15:15 - 15:35	Traffic Signal Control Strategies and Benefits at Connected Vehicle Arterials Dr. Li Zhang, Associate Professor, Mississippi State University, USA	
15:35 - 16:00	How Can Connected Vehicles Improve Urban Traffic Signal Control? Dr. Zhijun Qiu, Associate Professor, University of Alberta, Canada	
Session 4: Roundtable Discussions		
Moderator	Dr. Zongzhong Tian, Professor, University of Nevada Reno, USA	
16:00 - 17:30	Dr. Keping Li, Dr. Henry Liu, Dr. Fusheng Zhang, Mr. Xiaogang Wang, Mr. Gao Dai, Mr. Ruwei Han, Mr. Sunrong Yan	

Student Foru Chair: Yuqi Guo, B	Im 1: Traffic Flow Theory and Network8:00 - 12:30JiRen Building201Seijing University of Technology, China济人楼 201
0.00 0.00	Dijkstra-based Dynamic Algorithm for Strongest Road Capacity (#1138)
0.00 - 0.00	Teng Long
8:08 - 8:16	Traffic Density Estimation of Urban Freeway by Dynamic Model based Distributed State Observer (#456)
	Yuqi Guo
8:16 - 8:24	A New Car-Following Model Accounting for Multi-Preceding Cars' Optimal Velocity Changes and Backward Looking Effects (#680)
	Tenglong Li
8:24 - 8:32	An Optimized Hybrid Lane-Based Short-Term Urban Traffic Forecasting Using Artificial Neural Network and Locally Weighted Regression Models (#652)
	Asif Raza
0.22 0.40	Causal Analysis on Travelers' Perceptions in Traffic States (#883)
0.32 - 0.40	Heng Shi
8:40 - 8:48	Spatial Scale Analysis and Layout Optimization of Commuting Circle Based on One-hour's Law: A Case Study of Shanghai Metropolis (#1021)
	Xiang Zhou
8:48 - 8:56	Fundamental Diagram and Passenger Comfort of Mixed Traffic Flow Consisting of Adaptive Cruise Control Vehicles and Manual Vehicles (#31)
	Yanyan Qin
8.56 9.04	Optimization Method of Vehicle Route Scheme for Bus Rapid Transit (#1225)
8:56 - 9:04	Lijuan Zheng

Saturday, July 8

9:04 - 9:12	Effect of Geometric Features of Horizontal Curves on Trajectory and Speed of Vehicle under Driving Pattern of Curve Cutting (#72) Wei Lin
9:12 - 9:20	Travel Behavior Analysis of Event-Related Urban Rail Transit Passengers during Large Special Event (#932)
	Aingchuan wang
9:20 – 9:28	Optimization Model of Signalized Intersections Considering Vehicle Emission Characteristics (#113)
	Jingya Zhao
	Irregular Merging Behavior at Un-Signalized T-intersection (#497)
9:28 - 9:36	Pengying Ouyang
9:36 - 9:44	Spatial Analysis for the Usage of Ride-sourcing Services using Geographically Weighted Regression (#239)
	Jie Bao
9:44 – 9:52	Road Congestion Pricing Based on Bi-level Programming Model (#926) Shiwen Zhang
9:52 – 10:00	Tea/Coffee Break
10:00 - 10:08	Modelling and Algrithm of Transfer Stations' Train Timetable Coordination in Urban Rail Network (#816)
	Ying Guo
10.08 - 10.16	Site Optimization Design of Urban Rail Transit Feeder Bus Routes (#247)
10.00 - 10.10	Chen Sang
	Traffic Congestion Predicting Based Long-Short Term Memory Neural Networks (#623)
10:16 - 10:24	Min Chen
10:24 - 10:32	The Method of Successive Averages and Method of Successive Weighted Averages for Logit- Based Stochastic User Equilibrium Assignment (#95)
	Manyuan Zhang
10:32 - 10:40	Optimizing Bus Bridging Strategies During Metro Disruptions Considering Bridging Time and Passenger Delays (#533)
	Wei Gu
10.40 10.40	Improved Social Force Model Considering Social Groups with Heterogeneity (#580)
10:40 - 10:48	Yan Feng
10:48 - 10:56	The Payment Willingness of The Multi-Level Public Transport Based on Conjoint Analysis Model (#790)
	Na Li
10:56 - 11:04	Parking Choice Model in Resettlement Housing Area Considering Parking Sharing Policy (#368)

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	Wanying Li
11:04 - 11:12	Research on Formation Mechanism and Recognition Method of Traffic Congestion: Brief Review and New Development (#1104)
	Kequan Chen
11:12 - 11:20	A Study of Snowfall Impact on Mode Choice Behavior (#585)
	Zijing Lin
11:20 - 11:28	A System Dynamics Model for Congestion Formation Mechanism at Intersection Group (#22)
	Xiangjian Luo

Student Foru Chair: Tong Liu, Cl	m 2: Traffic Planning and Operation(I) 8:00 - 12:30 hang'an University, China
8:00 - 8:08	Perspectives of Opening a Gated Community and Its Effect (#109) <i>Tianqi Gu</i>
8:08 - 8:16	The Effect of Different Drowsiness Level on Driving Suitability Test Results (#1129) Tong Liu
8:16 - 8:24	Investigating Sideslip of Semi-Trailer Combination Vehicle on Curved Downslope Expressway Segment by Simulation (#716) <i>Guixian Qu</i>
8:24 - 8:32	Delay Analysis for Cars near the Curbside Bus Stop under Traffic Conflict Based on CPH Model (#606) <i>Aihua Fan</i>
8:32 - 8:40	Towards Comprehensive Threat Modeling for Intelligent Vehicle Cyber (#249) Haojie Ji
8:40 - 8:48	Research on Curve Radius Design Based on the Car-Road Coupling Mechanism (#60) <i>Qiang Tu</i>
8:48 - 8:56	Study on the Improvement of Highway Transportation Service (#1011) Mengfei Cao
8:56 - 9:04	Analysis on Transportation Multi-Mode Choice Behavior A Case Study of Suzhou, China (#910) Fanglei Jin
9:04 - 9:12	Research on the Influence of built environment of urban village on travel mode choice in Shenzhen (#212) Le Yu
9:12 - 9:20	Human Imitated Traffic Signal Control Strategy (#832) Aobo Wang
9:20 - 9:28	Curb Parking Pricing Model Cooperating with Off-street Parking Price in Cade Business District

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	(#96)
	Jinlong Li
9:28 - 9:36	Benefit Zone Analysis of the Shared Lane Design at Signalized Intersections in China (#250)
	Jiaming Wu
0.26 0.44	Development of A Database for Domestic System Interchanges (#1114)
7.50 - 7.44	Hao Zhou
9:44 - 9:52	Game Theory based Signal Control for Single Intersection in Intelligent Vehicle Infrastructure Cooperation Systems (IVICS) Circumstances (#264)
	Liu Yang
9:52 – 10:00	Tea/Coffee Break
10:00 - 10:08	Transit Mixed Lane Management with Congestion Fee Based Control Technology Study: A New HOT Transit Lane Method (#701)
	Chao Zhao
10:08 - 10:16	Research on Design and Simulation of Dynamic Performance of Pure Electric Vehicle Based on ADVISOR (#405)
	Ke Gong
10:16 - 10:24	Control Method of Variable Speed Limits for Freeway under Foggy Weather Conditions (#67) Shan Zhang
10.04 10.00	Analysis of Travel Time Reliability for Beijing Jingtong Expressway (#957)
10:24 - 10:32	Jiaxian Li
10:32 - 10:40	Consensus-based Algorithm and Experimental Verification of Intelligent Vehicle Formation (#393)
	Hong Guan
10.40 10.48	Random Forests for Freeway Short-Term Traffic Speed Prediction (#474)
10.40 - 10.40	Hongyu Zheng
10.40 10.50	Application of ARIMAX Model on Forecasting Freeway Traffic Flow (#429)
10:40 - 10:50	Mofeng Yang
10:56 - 11:04	An Evaluation Method of Urban Rail Transit Line Network for Valley City Based on Set Pair Analysis (#1069)
	Zhaoguo Huang
11:04 - 11:12	Mathematical Models for the Matching and Routing Problem of Customized Bus Service with Multiple Origins and Destinations (#91)
	Kai Huang
11:12 - 11:20	Ticket Price Sensitivity Analysis of High-Speed Railway Passenger (#1133)
	Yulong Zhou

Saturday, July 8

Student Forum 3: Traffic Planning and Operation (II)8:00 - 12:30Chair: Wenliang Jian, Tongji University, ChinaJiRen Building203济人楼 203		
8:00 - 8:08	Gradient Boosting Regression Tree for Traffic Flow Prediction Considering Temporal (#609) Shuaichao Zhang	
8:08 - 8:16	Value of Time for Inland Leg of International Containerized Transport in China (#944) <i>Wenliang Jian</i>	
8:16 - 8:24	Research on the Applicability of Different Kinds of Entrance and Exit Combination Modes on Urban Expressway (#448) <i>Chengiang Liu</i>	
8:24 - 8:32	Research of the characteristics of pupils' commuting trip in peak hours based on questionnaire investigation (#457) Changmei Dongye	
8:32 - 8:40	Analysis of Urban Parking Characteristics and Evaluation of Parking System – With Xi'an as Example (#475) <i>Chenlin Fu</i>	
8:40 - 8:48	Research on Road Network Planning of Small and Medium-sized Cities of Mountainous Areas Using Nanhua County As a Case (#195) Shuai Chen	
8:48 - 8:56	Parking Location Choice Model in Mixed Residential and Commercial Land Considering Parking Sharing Policy (#345) Wenho Huana	
8:56 - 9:04	Data-driven Operation Characteristics Analysis of Traditional Taxis and TNC Cars (#675) Pengfei Lin	
9:04 - 9:12	Research on Dynamic Nature of Dilemma Zone at Signalized Intersection (#61) <i>Huilin Zhang</i>	
9:12 - 9:20	Social Media Application for Illegal Parking Problem (#175) <i>Bo Wang</i>	
9:20 - 9:28	Optimization Method of Cycle Time in Signalized Intersection (#222) <i>Xiaotong Ma</i>	
9:28 - 9:36	Research on the Parking Supply Strategy of the Old Community based on Livable Environment (#1182) Shuang Li	
9:36 - 9:44	Discussion on the Planning and Design of Taxi Service Center——A Case Study of Jiangning District, Nanjing City (#711) Yue Wang	
9:44 - 9:52	Effects of the Panama Canal Expansion on the U.S. Intermodal System based RUBMRIO model	

	(4477)
	(#350)
	Junwei Yu
9:52 – 10:00	Tea/Coffee Break
10:00 - 10:08	A Road Maximum Flow Control Method Based on Mixed Model (#1246) Lianhua An
10:08 - 10:16	The Elderly's Joint Choice Behavior of Travel Mode and Departure Time in Shenzhen (#183) <i>Yeqin Wang</i>
10:16 - 10:24	Characteristics Analysis and Simulation of Road Construction Zone (#703) <i>Xiuhan Yang</i>
10:24 - 10:32	Research on the Setting Method and Applicability of Comprehensive Waiting Area at Signalized Intersections in Shenzhen (#660) <i>Yifan Xiang</i>
10:32 - 10:40	Optimization of One-way Traffic Organization in the Old City: A Case Study in Nanqiao New Town (#979) Sijin Long
10:40 - 10:48	Research on Urban Street Design and Traffic Management in Historical District (#185) Zhao Fang
10:48 - 10:56	Improvement of Multi - modal Passenger Traffic Impedance Model in Integrated Transportation Network (#445) <i>Yi Zhu</i>
10:56 - 11:04	Impact Analysis of Non-Motor Vehicles on Buses' Stopping Process at Bus Stops (#1029) Zhiling Han
11:04 - 11:12	Research on Bus Priority Control of Intersection Downstream Stop (#200) Danting Zhao

Student Forum 4: Green Traffic8:00 - 12:Chair: Hong Lang, Tongji University, ChinaJiRen Building3济人楼 3		30 01 01
8:00 - 8:08	Urban Commuting CO ₂ Emission Model and Implications for the Low Carbon Dioxide Transpor Development in Dongguan, China (#627) <i>Zihe Zhang</i>	ſt
8:08 - 8:16	A Review of 3D Pavement Automatic Measurement System (#975) Hong Lang	
8:16 - 8:24	Development of An Eco-Driving Control Algorithm in Urban Area Using Connected Vehicle Technology (#446) <i>Menglin Yang</i>	

Saturday, July 8

8:24 - 8:32	Research on Calculating Model of Urban Public Transport Financial Subsidy (#1218) Xueke Shana
8:32 - 8:40	Factor Comparison between Electric-tricycle Crashes and Manpower-tricycle Crashes (#1237) Cheng Li
8:40 - 8:48	Vehicle Emission Estimation Based on Video Tracking of Vehicle Trajectories (#237) <i>Qiangyang Xia</i>
8:48 - 8:56	Analysis of Transit Bus Emission Along an Urban Corridor based on the CAN Bus Data and IC Card Data (#1060)
8:56 - 9:04	A Study on the Differences between Bicycle Travelers' Fatigue Perception and Physical Expenditure (#653) <i>Jialiang Xue</i>
9:04 - 9:12	Bike Rental Station Deployment Planning in Xi'an (#359) Xiaotian Zhang
9:12 - 9:20	Investigation and Analysis of Metro Noise in Xi'an (#360) Hanxuan Dong
9:20 - 9:28	Estimation on Life-cycle CO ₂ Emissions from Freeway Greening Engineering (#374) <i>Di Li</i>
9:28 - 9:36	The Estimation on Life-cycle CO ₂ Emissions of Typical Freeway Passenger Vehicles (#380) Shuo Feng
9:36 - 9:44	Analysis of Public Bicycle Sharing Network Based on Complex Network Theory (#174) Chunliang Wu
9:44 - 9:52	Estimating the Most Likely Space-time Paths of Subway Passenger from Automatic Fare Collection Data: A Time Geography Method (#786) <i>Xing Chen</i>
9:52 – 10:00	Tea/Coffee Break
10:00 - 10:08	Timetable Optimization of Urban Rail Transit: A Flexible Skip-stop Scheme (#862) Peitong Zhang
10:08 - 10:16	Validation the Generality of the Passenger Disregarded Train Dwell Time Estimation Model (#557) <i>Yonghao Yin</i>
10:16 - 10:24	Congestion Degree Classification for Urban Rail Transit System Based on Hierarchical Cluster Analysis (#956) Binbin Li
10:24 - 10:32	Simulation and Modeling of Multi-Stations' Mass Passenger Flow Control Based on Waiting Time Equalization in Urban Rail Line (#817)

	Zhuoqun Wang
10:32 - 10:40	Planning and Design of Urban Bus Microcirculation System based on Bi-level Programming (#161) <i>Haoyu Zhang</i>
10:40 - 10:48	Research on Bike Sharing Routing and Scheduling Optimization Based on Different Period (#252) Jing Kong
10:48 - 10:56	Research On Vehicle Scheduling Model of Shuttle Bus under Intelligent Transportation System (#453) Li Zhang
10:56 - 11:04	The Utilization Analysis of Long-distance Bus Based on Smart Card Data (#466) <i>Qianyang Zhao</i>
11:04 - 11:12	Creating Bus Timetables with Maximal Synchronization by a New Algorithm Based on the PSO (#1251) <i>Wenhao Liu</i>
11:12 - 11:20	A Feasibility Study on the Application of Flexible-route Bus System in Chinese Medium and Small-Sized Cities (#314) Ruoxiao Feng
11:20 - 11:28	MRT Ridership Forecast at Station Level – A Case Study in Wuhan (#459) Ruili Guo

Student Forum 5: Traffic Safety and Driving Behavior8:00 - 12:30Chair: Lian Xie, Wuhan University of Technology, ChinaJiRen Building302济人楼 302		
8:00 - 8:08	DSRC-Based Rear-End Collision Warning Application for Android Smartpho Shoucai Jing	one (#337)
8:08 - 8:16	Effects of Freeway Alignment on Driving Performance and Workload Based Driving (#1093) Lian Xie	on Simulated
8:16 - 8:24	Hazard-based Model of Mandatory Lane Change Duration (#881) Jiangling Wu	
8:24 - 8:32	Research on the Application of Vehicle Tail Light Identification Algorithm ir (#783) Jian Zhong	1 Traffic Safety
8:32 - 8:40	A Survey Study on the Effect of Driving Behavior and Aggressive Driving on China (#493)	Traffic Accidents in

Saturday, July 8

	Qi Zhang
8:40 - 8:48	Understanding Road Rage: Insights from a Synthesis of Research (#260) Xiaohui Xu
8:48 - 8:56	Research on Influencing Factors of Driver's Reaction Time Based on AHP (#549) Jianlin Jia
8:56 - 9:04	Research on the Influence of Different Green Tail Signal Switching Patterns on Traffic Safety at Intersections (#968)
	Xuyan Weng
9:04 - 9:12	Analysis of Factors Affecting Safety at Intersections with Left-Turn Waiting Areas Utilizing Ordered Logit Model (#637)
	Mengying Li
9:12 - 9:20	Leisure Footpath Walking Speed and Dimension Analysis Considering Pedestrian Distinction (#988)
	Xueqi Lei
9:20 – 9:28	A Multi-Objective Model of Railway Rescue Center Location for Emergency (#782)
	Min Ling
9:28 - 9:36	Analysis of the effect of Warning Facilities on Driving Behavior at Un-Signalized Intersections (#1170)
	Bozhao Shen
9:36 - 9:44	Driver's Warning Threshold Choice in Rear-end Collision Avoidance System Under Different Speeds (#874)
	Chenxuan Yang
9:44 – 9:52	A Method of Prioritizing Intersection Improvement in Satellite Cities Based on Risk Management (#919)
	Xiaowan Ge
9:52 – 10:00	Tea/Coffee Break
10:00 - 10:08	Statistical Analysis of Metro Operational Accidents in Shanghai and Safety Countermeasures (#929)
	Xiaoli Ma
	Vehicle Lane Changing Model based on Genetic Algorithm and Random Utility (#135)
10:08 – 10:16	Qiannan Ai
10:16 - 10:24	An Analysis on Conformity Violation Road-crossing Behavior of Students based on Bass Model (#286)
	Weishan Wang
10.04 10.00	Travel Characteristics Extracting Method Based on Cellular Network Recording Data (#987)
10:24 - 10:32	Ning Xun
10:32 - 10:40	Reliability-based Assessment of Safe Following Distance under Variable Conditions (#948)

	Bowen Dong
10:40 - 10:48	Use of a Driving Simulator to Evaluate Pedestrian-vehicle Conflicts with Different Potential Risk Factors at Signalized Intersections (#173) <i>Jiawei Wu</i>
10:48 - 10:56	Development and Validation of Vehicle Safety Margin for Design of Highway Horizontal Curve (#147) <i>Ting Shi</i>
10:56-11:04	Driver Behaviour Models at Dilemma zone: A review (#555) Bharat Kumar Pathivada

Student Forum 6:Logistics and Infrastructure8:00 - 12:30Chair:Chenglong Liu, Tongji University, ChinaJiRen Building303济人楼 303	
8:00 - 8:08	Ship AIS Data Mining and Processing Method in Bridge Waters of Inland River (#938) Jie Xue
8:08 - 8:16	Optimal Maintenance Scheduling for Minimizing the Network Fuel Consumption (#961) <i>Chenglong Liu</i>
8:16 - 8:24	Research on Elements of Urban Rail Transit Crew scheduling (#1178) Rudong Yang
8:24 - 8:32	Trip Chain Behavior of Freight Vehicles Departing from Logistics Park (#945) Lu Li
8:32 - 8:40	Research on the Value of Road Freight Big Data in Government Statistics (#1177) Cuiping Ren
8:40 - 8:48	Study on Mixing Processes of Buton Rock Asphalt Mixture (#983) Yi Li
8:48 - 8:56	Asphalt Mixture Fatigue Life Prediction Model Based on Neural Network (#1270) <i>Chuanqi Yan</i>
8:56 - 9:04	Cold Chain Logistics Bi-objective Location Optimization Problem Based on Customers'Satisfaction (#253) <i>Hailan Yang</i>
9:04 - 9:12	Supply Chian Stability under Disruptions based on Predator-Prey Model (#346) Hai Ma
9:12 - 9:20	Application of Artificial Fish Algorithm in Relief Goods Distribution (#564) Yunna Zhang
9:20 - 9:28	Study on the Adaptability Evaluation of IOT in Transportation Management (#610)

	Jingbo Zhang
9:28 - 9:36	The Research of Location-Routing Problem in Emergency Logistics Based on Uncertainties (#312) Yashuai Ji
9:36 - 9:44	Study on Logistics Park's Radiation Scope Based on Breaking Point Model (#422) Jiayu Xu
9:44 - 9:52	The Design and Analysis of the Matching System for the Urban Freight Taxis (#471) Chong Gao
9:52 - 10:00	Tea/Coffee Break
10:00 - 10:08	Inland Port Location Planning Based on User Equilibrium (#1250) Jingyi Wei
10:08 - 10:16	Subgrade Settlement Prediction of a Tram Track in the Soft Soil Area (#1165) Zhongcheng Zhao
10:16 - 10:24	Research on Evaluation Method of Road Safety Maintenance Management (#918) <i>Yuexin Lou</i>
10:24 - 10:32	Operating Characteristics of Bicycle Groups: Statistics Analysis with the Data in Nanjing (#1169) Li Zhu
10:32 - 10:40	New development on improvement research of highway tunnel based on visual illusion (#213) <i>Wanwan Xu</i>
10:40 - 10:48	Mobile Phone Data Based Urban Functional Area Classification Algorithm (#224) Luxi Dong
10:48 - 10:56	Planning Metro Route Based on the Maximum Investment Efficiency (#188) Jiayu Wu
10:56 - 11:04	A modelling research of traffic-related particle pollution near the viaduct in an urban street canyon in Guangzhou (#631) Yuting Huang

PLENARY SESSION I: Academic Frontiers13:30 - 15:20Chair: Dr. Yu Zhang, Associate Professor, University of South Florida, USAJiRen Building101济人楼 101		
12.20 12.50	A New Analytic Landscape for the Estimation of Discrete Choice Models	
13:30 - 13:50	Dr. Chandra Bhat, Professor and Director of CTR, University of Texas at Austi	n, USA
13:50 - 14:10	Vulnerability Bounds for Transportation Networks Under Simultaneous M	ulti-Link Disruptions
	Dr. Anthony Chen, Professor, Hong Kong Polytechnic University, China	
14:10 - 14:30	Network User Equilibrium Models for the Mixed Battery Electric Vehicles a Subject to Battery Swapping Stations and Road Grade Constraints	and Gasoline Vehicles
	Dr. Qiang Meng, Professor, National University of Singapore, Singapore	
14:30 - 14:50	Optimal Parking Provision for Ride-sourcing Services	
	Dr. Yafeng Yin, Professor, University of Michigan Ann Arbor, USA	
14.50 15.10	How Many Cars are Too Many? An Update	
14.50 - 15.10	Dr. Kay W. Axhausen, EIC of Transportation, ETH Zurich, Switzerland	
15:10 - 15:40	Tea/Coffee Break	

PLENARY SESSION II: Towards a Smart City15:40 - 18Chair: Dr. Yafeng Yin, Professor, University of Michigan Ann Arbor, USAJiRen Building1济人楼 1		
15:40 - 16:00	Connected Automated Vehicle Testing Environment at Mcity Dr. Henry Liu, Professor, University of Michigan Ann Arbor, USA	
16:00 - 16:20	Center for Transportation, Environment, and Community Health (CTECH) Dr. Oliver Gao, EIC of TR Part D, Cornell University, USA	
16:20 - 16:40	Transportation Issues and Challenges Towards a Sustainable Smart City Dr. Pitu Mirchandani, Professor, Arizona State University, USA	
16:40 - 17:00	Should China further Expand its High-speed Rail Network? Consider the Low-cos Dr. Anming Zhang, Professor, University of British Columbia, Canada	st Carrier Cost
17:00 - 17:20	Accelerating the Deployment of Vehicle-to-Infrastructure Cooperative Perspectives in an Era of Increasing Automation <i>Dr. Robert Bertini, Professor, Director of CUTR, University of South Florida, USA</i>	Systems: U.S.
17:20 - 17:40	17:20 - 17:40Moonshot Thinking Approach for Transportation in the Era of Digital Transformation Dr. Keechoo Choi, Professor, Ajou University, South Korea	
17:40 - 18:00	Q & A	

Saturday, July 8

PLENARY SESSION III: Smarter Urban Mobility13:30 - 15:3Chair: Dr. Lei Zhang, Professor, University of Maryland College Park, USAJiRen Building31济人楼 31		
12.20 12.50	Automated Driving- Evolution or Revolution?	
15.50 - 15.50	Dr. Bart Van Arem, Professor, Delft University Technology, The Netherlands	
13:50 - 14:10	Future Urban Mobility and Public Transportation	
	Dr. Avishai (Avi) Ceder, Professor, Israel Institute of Technology, Israel	
14.10 14.20	Future and Sustainable Urban Mobility in a Smart Nation	
14.10 - 14.30	Dr. Der-Horng Lee, Professor, National University of Singapore, Singapore	
14:30 - 14:50	Future Challenges and Opportunities in the Analysis for Urban Transport S	ystems
	Dr. John Polak, Professor and Director, Imperial College of London, UK	
14:50 - 15:10	Artificial Intelligence for Smart Transportation Decisions and Applications	
	Dr. Yinhai Wang, Professor and Director of PacTrans, University of Washingt	on Seattle, USA
15 10 15 20	A System Approach Toward a Connected Automated Vehicle Highway System	em
15:10 - 15:30	Dr. Bin Ran, Professor, University of Wisconsin Madison, USA	
15:30 - 15:40	Tea/Coffee Break	

PLENARY SESSION IV: Challenges and Opportunities15:40 - 18:00Chair: Dr. Yinhai Wang, Professor and Director of PacTrans, University of WashingtonJiRen Building312Seattle, USA济人楼 312		
15:40 - 16:00	Challenges and Suggestions to Transportation Professionals in China	
16:00 - 16:20	A Deep-Learning Approach for Fully Automated Pavement Distress Survey Dr. Kelvin C. P. Wana, Professor, Oklahoma State University, USA	
16:20 - 16:40	Multidisciplinary Safety Research in Safety Dr. Lawrence Rillet, Professor, University of Nebraska Lincoln, USA	
16:40 - 17:00	An Integrated Approach to Vehicle-Pedestrian Safety Dr. Essam Radwan, Professor, University of Central Florida, USA	
17:00 - 17:20	Creating a Sustainable Transportation System Mr. Al R. Roshdieh, Montgomery County Department of Transportation Director, MD, USA	
17:20 - 17:40	Technology Trends in Scandinavia Mr. Torgeir Vaa, Senior Project Manager, Norwegian Public Roads Administration, Norway	
17:40 - 18:00	Q & A	

Sunday, July 9

The 8 th COTA	A-World Bank China Transport Forum 8:30-12:10 TongXin Building 224 同心楼 224	
The COTA-World Bank China Transport Forum is a yearly event jointly organized by COTA and the World Bank at the annual COTA International Conference of Transportation Professionals (CICTP). The first forum was in 2010. The Forum aims to: (i) highlight critical challenges and opportunities in China's transport development; and (ii) serve as a platform for knowledge sharing among COTA members, government officials, researchers, educators and practitioners from China and abroad.		
Opening Rema	ırks	
Moderator: Jason	n Wang, Appalachian Regional Commission, USA	
8:00 - 8:20	Remark 1 – Jian Lu, Dean of College of Transportation Engineering at Tongji University Remark 2 – Hua Tan, Senior Transport Specialist, World Bank	
Session I: Big I	Data in Real World	
Moderator: Shiyi	Han, Transport News	
8:20 - 8:40	Informationization Practice of Beijing Metro Transit Operation Management Jun Yang, Beijing Metro Network Control Center	
8:40 - 9:00	Sustainable development of ofo bicycle with big data assistance Yeming Ma, ofo	
9:00 - 9:20	Blockchain and the Future of Transportation Randeep Sudan, World Bank	
9:20 - 9:30	Q&A	
Session II: ITS in Applications		
Moderator: Randeep Sudan, World Bank		
9:30 - 9:50	ITS Improves Accessibility to Transit of the Visually Impaired Kui Su, GuoZhou Transport Management Office	
9:50 - 10:10	Achieving Energy Savings by Intelligent Transportation System Investments in the Context of Smart Cities Yang Chen. World Bank	
10:10 - 10:20	Q&A	

Sunday, July 9

10:20 - 10:35	Tea Break	
Session III: Emerging Technologies for the Future		
Moderator: Yang Chen, World Bank		
10:35 - 10:55	New Energy Bus in China Cheng Li, China Academy of Transportation Sciences	
10:55 - 11:15	Future of Big Data Wenjiang Niu, China Transport Information Center	
11:15 - 11:35	Technology in Paradise, Emerging Trends in Hawaii Mark Garrity, Oriental Consultants Global Co.	
11:35 - 11:45	Q&A	
Panel Discussion: Best Practices and the Future Actions		
Moderator: Yi Yang, World Bank		
11:45 - 12:25	Panel: Yeming Ma, Kui Su, Yang Chen, Al Roshdieh, Mark Garrity	
Closing Remark		
12:25 - 12:30	Shiyi Han, Transport News	

Spotlight Session VI: Air Transport vs. High-Speed Rail:8:00 - 9:50Competition or Cooperation?JiRen Building 405Chair: Dr. Xiaoqian Sun, Associate Professor, Beihang University, China济人楼 405		
8:00 - 8:20	Solving aircraft recovery problem with airport capacity constraints and maintenance flexibility Dr. Zhe Liang, Professor, Tongji University, China	7
8:20 - 8:40	Vulnerability Assessment of Complementary Transportation Systems Dr. Hong Liu, Associate Professor, Huazhong University of Science and Technology, China	
8:40 - 9:00	Effects of High-Speed Rail Speed on Airline Demand and Price Dr. Anming Zhang, Professor, University of British Columbia, Canada	
9:00 - 9:20	Air Transport vs. High Speed Rail: An Overview and Research Agenda Dr. Xiaoqian Sun, Associate Professor, Beihang University, China	
9:20 - 9:50	Q & A	
9:50 - 10:10	Tea/Coffee Break	

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Spotlight Session VII: Technology Frontiers10:10 - 12:30Chair: Dr. David Hurwitz, Associate Professor, Oregon State University, USAJiRen Building 405济人楼 405		
10:10 - 10:30	Critical Aspects and Technological Tools for Signal Timing and Coordination Dr. Zong Tian, Professor, University of Nevada Reno, USA	
10:30 - 10:50	Integrated Multi-Criteria Signal Timing Optimization for Sustainable Traffic Operations Dr. Yu Zhang, Associate Professor, University of South Florida, USA	
10:50 - 11:10	Addressing Impacts of Information Technology on Freight System Dr. Cara Wang, Associate Professor, RPI, USA	
11:10 - 11:30	Potential Impact of Highly Automated Vehicles on Transportation Infrastructure: Opportunities and Challenges Dr. Huaguo Zhou, Associate Professor, Auburn University, USA	
11:30 - 11:50	The Importance of Humanities and Social Sciences in Transportation Engineering Education Dr. Jing Shi, Professor, Tsinghua University, China	
11:50 - 12:10	Stochastic Frontier Estimation of Budgets for Kuhn-Tucker Demand Systems: Application to Activity Time-Use Analysis. Dr. Abdul Rawoof Pinjari, Associate Professor, University of South Florida, USA	
12:10 - 12:30	The relative importance of occupational variations and metropolitan types in explaining the propensities to work at home <i>Dr. Pengyu Zhu, Assistant Professor, University of Hong Kong, China</i>	

Invited Session 9: Freeway Operation and Management8:00 - 12:00Chair: Dr. Zhirui Ye, Professor, Southeast University, ChinaJiRen Building211Co-chair: Dr. Yajie Zou, Associate Professor, Tongji University, China济人楼 211		
8:00 - 8:25	Optimizing Traffic Operations for Freeways using Microscopic Traffic Models Dr. Xiaobo Qu, Associate Professor, University of Technology Sydney, Australia	
8:25 -8:50	Time-dependent Drivers' Merging Behavior Model in Work Zone Merging Areas Dr. Jinxian Weng, Professor, Shanghai Maritime University, China	
8:50 -9:15	Learning Traffic as Images: Spatiotemporal Recurrent Convolutional Networks for Tr Prediction in Transportation Networks Dr. Xiaolei Ma, Associate Professor, Beihang University, China	affic
9:15 -9:40	Adaptive Rolling Smoothing with Heterogeneous Data for Traffic State Estimation Prediction	and

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	Dr. Xiqun Chen, "Hundred Talents Program" Professor, Zhejiang University, China
9:40-10:00	Tea/Coffee Break
10:00 - 10:25	Freeway Active Traffic Management Technologies: Practice and Key Research Problems Dr. Zhibin Li, Researcher, Southeast University, China
10:25 - 10:50	Travel Time Estimation Using Freeway Point Detector Data Based on Evolving Fuzzy Neural Inference System
	Dr. Jinjun Tang, Associate Professor, Central South University, China
10:50 - 11:15	Ramp Merging: The Effects of Mixed Traffic Users and Cooperative Merging
10.00 11.10	Dr. Zhanbo Sun, Professor, Southwest Jiaotong University, China
11:15 - 11:40	Research on Road Traffic State Detection Method of Mountainous City (#1019) Dr. Zhi Han
11:40 - 12:00	Q & A

Invited Session 10: Public Transit 8:00 - 12:30 **JiRen Building311** Chair: Dr. Cathy Liu, Assistant Professor, University of Utah, USA 济人楼 311 Co-Chair: Dr. Linbo Li, Associate Professor, Tongji University, China Dynamic Transit Accessibility and Transit Gap Causality Analysis 8:00 - 8:30 Dr. Cathy Liu, Assistant Professor, University of Utah, USA The Study on the Share Rate of Public Transport in Shanghai Dr. Tianran Zhang, Vice Director of Transport Model Department, Shanghai Urban Planning & 8:30 - 9:00 Design Research Institute, China Analysis the Metro-based Multimodal Transfer Characteristics and the Mode Shift from Car 9:00 - 9:30 Dr. Min Yang, Professor, Southeast University, China 9:30 - 10:00 Tea/Coffee Break Improvement of satellite cities by the urban rapid transit systems: A case study from Chengdu, China 10:00 - 10:30 Dr. Fei Yang, Professor, Southwest Jiaotong University, China Development and Prospects of CUTD (China National Urban Transit Database) 10:30 - 11:00Dr. Xianglong Liu, Director, China Academy of Transportation Sciences, China Study on Agglomeration Mechanism of Resident Trip Activities and Construction of Multi activity Agglomeration Area 11:00 - 11:30Dr. Linbo Li, Associate Professor, Tongji University, China The Decision Making of Bus Entering Lane-Changing Behavior Analyzed by Back-Propagation Neural Network Model (#311) 11:30 - 12:00 Dr. Hongyan Xiang

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12:00 - 12:30 modal framsic system (#770)	12:00 - 12:30	12:0	0 – 12:30 modal Transit System (#478)		
Dr. Shaozhi Hong, Professor, Chongqing Jiaotong University			Dr. Shaozhi Hong, Professor, Chongqing	Jiaotong University	

Invited Session 11: Connected and Automated 8:00 - 12:30			
Transportation Systems JiRen Building210			
Chair: Dr. Jianqiang	Chair: Dr. Jianqiang Wang, Professor, Tsinghua University, China 济人楼 210		
9.00 9.20	Newly Developed Approach for Autonomous Vehicle Control Based on i-VICS		
0:00 - 0:50	Dr. Yi Zhang, Professor, Tsinghua University, China		
8.20 0.00	Research on Real-time Construction of High-precision Scene Map		
0.30 - 9.00	Dr. Bijun Li, Professor, Wuhan University, China		
0.00 0.20	Driving Experience Analysis for Intelligent Vehicle		
9.00 - 9.30	Dr. Zhenhai Gao, Professor, Jilin University, China		
	Research on Autonomous Vehicle Safety Tests in ChinaFrom the Perspective of Driving Test		
9:30 - 10:00	Mr. Hanzhong Pan, Professor, Deputy director, Traffic Management Research Institute of the		
	Public Security Ministry (TMRI), China		
10:00 - 10:30	Tea/Coffee Break		
	Driving Mode Decision-making Method for Automated Vehicles with Human-Vehicle		
10:30 - 11:00	Cooperation		
	Dr. Chaozhong Wu, Professor, Wuhan University of Technology, China		
11.00 - 11.30	Key Technologies of 5G & Connected Vehicles		
11.00 11.50	Dr. Daxin Tian, Associate Professor, Beihang University, China		
	Driving Risk Evaluation Method for Intelligent and Connected Vehicles in Complex Traffic		
11:30 - 12:00	Environment		
	Dr. Jianqiang Wang, Professor, Tsinghua University, China		
12:00 - 12:30	Q & A		

Invited Session 12: Transportation Policy, Planning and 8:00 – 12:3		
Modeling		JiRen Building209
Chair: Dr. Zhichun	Li, Professor, Huazhong University of Science and Technology, China	济人楼 209
8:00 - 8:40	Step Tolling in an Activity-Based Bottleneck Model	
	Dr. Zhichun Li,, Professor, Huazhong University of Science and Technology, Chi	ina
8:40 -9:20	Modeling and Calibration of Day-to-day Traffic dynamics	
	Dr. Feng Xiao, Professor, Southwestern University of Finance and Economics, C	China
9:20 -10:00	Public Bicycle Service Evaluation from Users' Perspective: Case Study of Hangzhou, China	

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	Dr. Yilin Sun, Lecturer, Zhejiang University, China		
10:00 - 10:30	Tea/Coffee Break		
10:30 - 11:10	The Research on the Construction of Real-time Parallel System in Shenzhen		
	Mr. Zhenwu Chen, Deputy, Director of Traffic Information and Model Institute		
11:10 - 11:50	Development of Commute Mode Choice Model by Integrating Actively and Passively Collected		
	Travel Data		
	Dr. Xin Ye, Professor, Tongji University, China		
11:50 - 12:30	Switch to Subway SP&R or not? Impacts of Multimodal Traveler Information (#398)		
	Dr. Hongcheng Gan, Professor,University of Shanghai for Science and Technology		

Technical Session 18:00 - 12:30Chair: Dr. Guohui Zhang, Assistant Professor, University of Hawaii, USAJiRen Building309济人楼 309			
8:00 - 8:25	Evaluation of Urban Bus Emissions Generated Near Intersections (#1106) Dr. Qian Yu, Chang'an University, China		
8:25 -8:50	A Recognition Method of Construction Conflict on the Bases of Driver's Eye Movement (#465) Dr. Yi Xu, Shandong University of Technology, China		
8:50 -9:15	A Novel Control Strategy of Urban Expressway Weaving Area (#1202) Dr. Ning Chen, Beijing Key Laboratory of Traffic Engineering, Beijing University of Technology, China		
9:15 - 9:40	A Self-Adaptive Step-Size Sensitivity Based Heuristic Method for Road Network Capacity Problems (#1205) Dr. Muging Du, Hohai University, China		
9:40 -10:25	Tea/Coffee Break		
10:25 -10:50	Spatial Aggregation of Worldwide Air Transportation Networks (#752) Dr. Xiaoqian Sun, Beihang University, China		
10:50 -11:15	Congestion Charging on New Road Incorporating Induced Traffic in China (#150) Dr. Nan He, Dalian Jiaotong University, China		
11:15 -11:40	Modeling Travel Choice Behavior with Prospect Theory (#635) Dr. Zhi Zuo, Xinjiang University, China		
11:40 -12:05	A Comparison of Different Transportation Strategies for Road Freight Enterprises from a Carbon Footprint View (#749) Dr. Yi Gao, Research Institute of Highway, Ministry of Transport, China		
12:05 -12:30	A Compehensive Measure for Evaluating Urban Traffic Congestion: Continuous Congestion (#751)		

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Dr. Yi Gao, Research Institute of Highway, Ministry of Transport, China

Technical Session 28:00 - 12:30Chair: Dr. Shanjiang Zhu, Assistant Professor. George Mason University, USAJiRen Building310济人楼 310			
8.00 - 8.25	Research on the Bus Timetable Based on IC Card Data (#620)		
0.00 - 0.23	Dr. Yusheng Ci, Harbin Institute of Technology, China		
0.25 0.50	Dynamic Network Design for Allocating Intermittent Bus Lanes (#951)		
0.23 -0.30	Dr. Haiyang Liu, Shanghai Jiaotong University, China		
8:50 -9:15	A New Accident Prevention System Based on The Prediction of Vehicle Tire Forces by Using Digital Map and Unscented Kalman Filter (#574)		
	Dr. Kun Jiang, Tsinghua University, China		
9:15 - 9:40	A Lane-based Binary Mix Integer Linear Program Model for Minimizing Delay at Isolated Signal Controlled Intersection (#659)		
	Dr. Zhao Zhang, Beihang University, China		
9:40 -10:25	Tea/Coffee Break		
10.25 10.50	Discussion on Profit Distribution Model under the Shared Parking Policy (#255)		
10:25 -10:50	Dr. Xiaowei Hu, Harbin Institute of Technology, China		
10.50 11.15	Game Model of the Route Selection for Bus Rapid Transit (#1161)		
10:50 -11:15	Dr. Huawei Gong, Guangzhou University, China		
11:15 -11:40	Traffic Flow Characteristics and Congestion Evolution Rules for Urban Road Networks during Special Events (#460)		
	Dr. Zhongyu Wang, Shanghai Maritime University, China		
11:40 -12:05	Evaluation of the Impacts of Driver Population Heterogeneity on Capacity and Traffic Performance using Microscopic Simulation (#187)		
	Dr. Haifei Yang, Hohai University, China		
12:05 -12:30	On-road Emissions and Fuel Consumption of Tourist-Oriented Heavy Duty Diesel Vehicles in Beijing (#435)		
	Dr. Ye Zhang, Beijing University of Technology		

Sunday, July 9

Transportation Practioner's Forum

Chair: Mr. Kyle Liang

8:30 - 12:00 TongXin Building 124 同心楼 124

The Transportation Practitioner's Forum is a continuation and expansion from the past COTA Government Forum in the CICTP series. It serves as a platform for discussions of a key component of the transportation development and traffic engineering in China and also a platform for dialogue between international and China on critical and practical issues that are commonly interested. The forum will draw upon the experience and lessons from transportation and traffic agencies both overseas and in China throughout all levels of transportation policies, planning, operations and management aspects and will highlight successes, challenges, and issues which can be learned and applied in Chinese context.

Session I: Iden	tification, Analysis, and Correction of High-Accident Locations			
8:30-8:35	Opening Remark			
8:35-8:50	Advancing Innovative Safety Treatments for High Crash Intersections			
	Dr. Jianming MA, TxDOT, USA			
8:50-9:05	Experiences on the important segments screening and treatments in highway safety			
	enhancement project.			
	Dr. Zhang Tiejun, Research Institute of Highway, China			
9:05-9:20	Road safety discussion based on severe traffic crash investigations			
	Dr. Pingfan Li, Traffic Management Research Institute of the Public Security Ministry			
	(TMRI)			
9:20-9:35	Common safety issues on freeways in China			
	Dr. Wenbin Wang, Tongji University, China			
9:35-9:50	Accidents Analysis and Roadway Improvement on NHWY111 in Inner Mongolia			
	Mr. Kyle Liang, Montgomery Co. MD, USA			
9:50-10:00	High Risk Location Identification and Improvement in Shanghai			
	Dr. Xuesong Wang, Professor, Tongji University			
10:00-10:15	Q&A			
10:15-10:30	Coffee/Tea Break			
Session II: Panel	Discussion: How do We Review and Improve Highway operations and safety in China? –			
Perspectives fro	m Inside and Outside China.			
10:30-12:00	Super Intersection Improvements, Signing and Pavement Markings Plan on Highways			
	and Ramp Design and Operations on in Suburban.			
	Panelists:			
	Dr. Xuesong Wang, Professor, Tonji University, China			
	Dr. Zhang Tiejun, Ph.D. Research Institute of Highway			
	Dr. Pingfan Li, Ph.D., Traffic Management Research Institute of the Public Security			
	Ministry (TMRI)			
	Dr. Wenbin Wang, Tonji University, China			
	Dr. Jianming MA, TxDOT, USA			
Mr. Kyle Liang, Montgomery Co., USA				

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8:00 - 12:30PosterHall of JiRen BuildingCoordinator: Dr. Yu Zhou, Associate Professor, Tongji University, China济人楼大厅			
Session 1			8:00 - 9:30
Poster ID	Name	Paper ID	Title
P001	Tao Wang	1230	Risky Driving Behaviors of Electric Bike Users Based on Structural Equation Model
P002	Pei Liu	1186	Evaluation of Mobility Impact on Urban Work Zones using statistical Models
P003	Junrong Qu	1191	Expose Data as a Service in Cloud for Cooperative Intelligent Transportation Systems Communicating with Web Application Programming Interfaces
P004	Mohamad Naji	1095	Airport Security Screening Process: A review
P005	Xiaolei DU	1131	Study on Carbon Emission of Urban Rail Transit with Different Land Use Patterns
P006	Jun Zeng	812	Research on Urban Road Congestion Charging—a case study of Xi'an Hi-tech Industries Development Zone
P007	Yuhuan Wang	306	A Method to Determine the Policy Headway for Bus Routes: A Case Study of Beijing
P008	Peiyan Chen	1128	Research on the Impact of Typical Sections in Urban Tunnel on Drivers' Psychology and Physiology
P009	Cheng Cheng	1143	Investigation of the Effects of Holidays on Airport Landside Passenger Volume: A Case Study of Shanghai Hongqiao International Airport
P010	Wenhui Chu	426	Real-time Crash Prediction Estimation of Freeway Safety: A review
P011	Jing Fan	1003	Model to Optimize Location and Planning of Electric Car Sharing Rental Site
P012	Xueli Fang	381	Studies about Characteristics of the Mixed Non-Motorized Traffic Flow
P013	Yu Fang	978	Evaluation Method of Urban Road Riding Quality Affected by Pavement Partial Unevenness
P014	Xin Gu	242	A Simple Aerial Map Matching Algorithm Besed On Hidden Markov

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P015	Yueqi Hu	626	Reliability Model and Simulation of Manual Monitoring of Expressway Tunnel Unexpected Events
P016	Wencheng Huang	275	Improved Railway Passenger Comfort Benefit Quantitative Calculation Approach: Based on Candidate Time Value Set
P017	Zhiyuan Huang	1157	An Optimization Model for Urban Rail Transit Crew Pairing Problem based on Workload Equilibrium
P018	Ya'nan Li	1190	Empirical analysis of failing to board and traveling backwards in an overcrowded urban rail transit system
P019	Zexin Ma	962	Evaluation of fatigue and rutting performance of in-situ asphalt pavement based on accelerated pavement testing
P020	Xiaomeng Shi	1235	Estimating Pedestrian Walking Characteristics using Smartphone Sensing: An Experimental Study
P021	Тао Тао	504	The Analysis of Supply and Demand for Logistics of Double Eleven Online Shopping Day
P022	Yi Wang	1232	Modeling and Simulation of Oversaturated Traffic Flow Based on Cellular Automata
P023	Hongbin Yu	363	Development of a Novel Vehicle-mounted Data Collection Terminal with Multisource Information Fusion for Connected Vehicles
P024	Lishengsa Yue	77	Detection of Drivers' Moderate Drowsiness Using a Wavelet-Entropy-Based Smart Algorithm
P025	Guoshuai Zang	970	Setting Method of the Depth to Rigid Layer in Modulus Back-Calculation
P026	Junjie Zhang	352	A traffic network capacity reliability considering mean-excess travel time with perception error
P027	Zhiping Zhang	1265	Research on Real-time Traffic Condition Identification of Highways Based on Chinese BEIDOU Positioning Data
P028	Zichu Zhou	1012	Analysis of Vehicle Trajectory on the Tunnel Entrance and Exit in the Large Longitudinal Slope Based on Driving Simulation
P029	Zhenjun Zhu	808	Multi-Level Integrated Optimization Methods for Urban Traffic Structure
P030	Zhu Bai	499	Research on the Choice Behaviors of Order Dispatching Modes under the Online Car-hailing Services Based on Evolutionary Game Theory
P031	Song Zeng	692	Research on Image Dynamic Blurring Reconstruction Algorithm in 3S - UAV Traffic Modeling Platform
P032	Yijun Chen	568	Information Flow Analysis on Operation Control System in High-Speed Maglev Transportation
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P033	Yijun Chen	1227	Information Flow Analysis on Forced Stop Management of Operation Control System in High-Speed Maglev Transportation
P034	Ji Fu	1039	The Impact of Changsha Maglev Line on Land-Side Transportation of Changsha Huanghua International Airport
P035	Yucong Hu	403	Commuting Trip Rate of the Private Cars Based on Differentiation of Household Income in Guangzhou
P036	Yingying Ma	370	Optimizing Traffic Flow among Traffic Zones Using Macroscopic Fundamental Diagrams
P037	Jiangfeng Wang	462	Intersection Actuated Signal Phase and Timing Algorithms in Connected Vehicle Environment
P038	Feng Ye	1009	Aerodynamic Effect on the Noise Barrier of High Speed Maglev Girder-on- Bridge System under Extreme Weather Conditions
P039	Guoqiang Zhang	472	Cellular Automaton Model for Analyzing Traffic Flow on a Road Section
P040	Guoqiang Zhang	423	Exploring Safety Impacts of the Number and Arrangement of Lanes on Freeway Entrance Ramps
P041	Jie Zhang	1239	Status Analysis and Forecasting of CEKE Port Logistics Development
P042	Zhiwei Zhu	991	Research on Alignment Maintenance Effect Evaluation Method of Shanghai Maglev Line
P043	Nengchao Lv	1229	Review and Discussion on Driving Workload Quantification in Traffic Safety
P044	Ling Hong	1219	A Simulation Model to Calculate Turn-back Capacity in Metro Stations
P045	Jinping Guan	1155	City-Periphery Residents' Travel Mode Captivity: Case Study of a Large-Scale Residential Area in Shanghai, China
P046	Lingling Fan	373	An Attempt of Duration Analysis Based on Non-Parametric Kernel Regression Algorithm
P047	Bin Fang	25	Research of Multiple UAVs space deployment problem in traffic surveillance mission
P048	Mingxia Huang	390	Analysis on Safety Characteristics of Stopping Behaviors at Intersections with Countdown-Type Traffic Signals
P049	Qiang Luo	1159	Research of Pedestrian Traffic Parameter Extraction Algorithm
P050	Weiwei Qi	654	Characteristics analysis on eye moving and lane changing of taxi drivers in the congested state

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P051	Bin Shang	1200	Urban Rail Transit Environmental Benefits
P052	Haiyan Sun	122	Structural Equation Modelling for Travel Behavior of Residents in Large- scale Residential Community
P053	Xiang Wang	194	On-line Prediction of Freeway Time-dependent OD Flow: A Case Study of Jiangsu Province in China
P054	Lina Wu	420	A Research Of Transportation Modes Competition Model Based On Group Size Difference
P055	Yihong Yuan	825	Guideway Switch of Maglev Changsha Airport Express Line
P056	Fan Zhang	1257	A Study on Highway Corridor Traffic State Identification Based on Data Fusion of DSRC Data and ETC Data
P057	Ping Zhang	156	Study on Resident's Choice of Non-Work Tour Based on Logistic Model
P058	Lai Zheng	1070	Adaptability Evaluation of the Upgraded Highway's Geometric Alignments based on Speed-related Characteristics: A Case Study
P059	Jibiao Zhou	1195	Modeling Waiting Endurance Time of E-bike at Signalized Intersection
P060	Sicong Zhu	1261	Analysis of Vehicle Stop-And-Go Driving Behaviors at Signalized Intersections
P061	Yong Zhu	690	Vision-based Lane Departure Detection using Local Hough Transform & Particle Filter
P062	Jianwei Gong	279	Human-like Longitudinal Velocity Control Based on Continuous Reinforcement Learning
P063	Lili Wang	1206	Study on Collision Risk of Parallel Runways in Independent Parallel Instrument Approach Mode
P064	Xingkai Fu	64	Influence of Polyphosphoric Acid on the performance of asphalt binders
P065	Yu Shan	946	Urban Transportation Emergency Strategy Design based on Petri
P066	Huiyu Chen	928	The Cluster of Vehicle Temporal Travel Behavior Based on License Plate Recognition Data
P067	Qin Chen	276	Analysis on Time Window of Shared Parking in Hospitals Based on Parking Behaviors
P068	Xinchao Chen	775	An Improved K-nearest Neighbor Model for Short Term Traffic Forecasting Considering the Weather Impact

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P069	Yifan Chen	794	Bike-share System Users' Satisfaction Assessment Based on Structural Equation Model
P070	Yu Chen	451	Dynamic Environmental Assessments on a Network Level Based on DTA
P071	Xi Deng	397	Damage identification of high-speed maglev track girder based on the finite element simulation
P072	Weina Fan	669	Analysis of Traffic Information Service Demands Characteristics in Expressway
P073	Qiong Ying	1135	Curved Roads Speed Advisory Strategy under Connected Vehicle Environment
P074	Yufang Gao	516	Rail Transit Assignment Model Based on Random Regret Minimization under Multi-class User Condition
P075	Qingsheng Gong	443	Study on the Safety Evaluation of Modern Tram at Intersection Based on Traffic Conflict
P076	Qi Guo	1134	Research on the Prediction of travel time of urban sections by neural network method
P077	Xiongfeng Guo	1007	Deterioration Analysis and Forecasting Model of Urban Bridges
P078	Chengpeng Guo	1224	The Method of Analyzing Metro Complaint Data and Its Application
P079	Linghui He	780	Analysis of factors affecting the operation effect of bus lane based on decision tree model: A case study of Shanghai, China
P080	Mengchen He	873	Combined Parking Pricing Forecasting Model Based on Time Series Forecast and Regression Analysis
Session 2	,		9:30 - 10:45
Poster ID	Name	Paper ID	Title
P081	Qingjun He	891	Incorporating the WIM Data into the Analysis of Road Traffic Risk
P082	Jingyun Hu	1000	Impact Analysis of Public Facilities Allocation Standard to Residents Non- Commuting Activities ——A Case Study of Six Residential Parcels in Shanghai
P083	Zhehua Hu	539	Vision-GPS Fusion for High Precision Vehicle Localization in Urban Environment
P084	Rong Huang	20	Determining Road Toll for Multimode Transportation Network Based on Bi- level Programming Model Applying Super-network

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P085	Xing Huang	1216	Simulation and Optimization of Traffic Organization at Highway Reconstruction and Extension Area under the Situation of Large Traffic Volume	
P086	Shan Jiang	111	Schedule-driven Signal Priority Control for Modern Trams Using Reinforcement Learning	
P087	Menglu Jiang	895	Study on the Effect of Traffic Analysis Zones Design on Road Network Flow Assignment: Based on City Madrid	
P088	Difeng Kuang	191	Mechanics Analysis of Single-toe Elastic Bar Fastening and Type III Elastic Bar Fastening in Urban Rail Transit	
P089	Huan Li	324	Station-Area Land Use Planning under The Integrated Public Transit and Land Use Framework	
P090	Xinxu Li	408	A Multimodal Detection and Tracking System based on Deep-Learning for Traffic Monitoring	
P091	Yan Li	911	The Impact Analysis of New Parking Lot in Large Business Center	
P092	Jiadong Liang	513	A short-term forecast method for highway traffic conditions based on CHMM	
P093	Xinyu Lin	1109	The Multi-Objective Optimization Strategy of Urban Railway Train Automatic Train Operation (ATO)	
P094	Zhanzhou Lin	382	Research on Installation of Changeable Message Sings in freeway work-zone based on driving simulation	
P095	Baolong Liu	240	Improved artificial bee colony algorithm and its application in solving VRPTW	
P096	Dongfusheng Liu	116	The storage system design for dynamic data of internet of vehicles based on B+ tree technology	
P097	Hao Liu	942	The Research on Construction Risk Evaluation in Mountainous Roads	
P098	Sheng Liu	238	Driving Experiment based Investigation on Length Threshold for Freeway Landscape Pattern	
P099	Xiang Liu	290	Bi-level Programming Model of Locating Public Charging Stations for Electric Vehicles	
P100	Yingying Liu	69	Study on the Operational Status of Shanghai EVCARD Electric Vehicle Car- sharing Project	
P101	Yuanlin Liu	867	A Breakthrough Brought by Taxi-Calling APPs for Taxi Operating Level in Mobile Internet Environment : A Case Study in Shanghai	
P102	Yuanlin Liu	877	Analysis of Influencing Factors in Simple And Complex Non-work Trip Chains Base on Binary Logistic Model	

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P103	Yuanlin Liu	954	E-hailing Taxis Management Mode Innovation Based on the Credit Evaluation
P104	Xueli Liu	1167	Model and Simulation of Bi-directional Pedestrian Flow Self-Organization Based on Cellular Automata
P105	Tianwei Lu	1042	Research on Supply and Demand Disequilibrium Degree of Urban Agglomeration Transportation System
P106	Yi Luo	5	Overview Research of Influence of In-vehicle Intelligent Terminals on Drivers' Distraction and Driving Safety
P107	Liang Ma	763	Urban Freight Routing Based on Static User Equilibrium
P108	Yang Ma	1124	Theoretical Evaluation Model of Effects of Traffic Safety Improvement Measures for Rural Highways
P109	Qiong Peng	1208	Waiting Behavior characteristics of Non-Motor Vehicle at the Signal Intersection
P110	Chen Qi	1213	Research on Mountainous Expressway Crash Prediction Model Based on IHSDM In China
P111	Yu Qiao	871	Optimization for urban rail timetable under dynamic passenger demand on different days
P112	Si Qin	7	Research on Traffic Control Mode Selection of Ring-intersection
P113	Hanyu Shu	1023	Privacy Protection for Transport Big Data: A Life-cycle Perspective
P114	Yang Song	1076	Ordinal Cluster Division of Road Section Considering Maintenance Factor Weight
P115	Cuicui Sun	608	Evaluating the Effect of Road Lighting on Traffic Safety at Critical Road Sites
P116	Peixiang Sun	248	The Effects of Measures on Lowering the Phreatic Line within Seasonal Soaking Subgrade
P117	Yu Sun	1187	Driver's neglect to the Cyclist at the Intersection
P118	Zhengwei Sun	855	Longitudinal Risky Driving Behavior Recognition Based on Naturalistic Driving Study
P119	Shuai Tian	1091	Damage diagnosis of concrete slab based on finite element model updating technique under the influence of temperature
P120	Botong Wang	676	Prediction model for traffic congestion based on the deep learning of convolutional neural network

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P121	Ding Wang	52	Balance of Reliability and Efficiency in Adaptive Signal Control Strategy
P122	Hefei Wang	900	Analyzing the Effects of Public Transit Information Systems Based on Mobile Terminal on Choice Behavior of Travelers on Route
P123	Mengdi Wang	1240	A Scheduling Optimization Model of Coordinated Operation between Rail Transit and Bus Transit
P124	Mengyang Wang	287	Analysis of route choice behavior based on travel time reliability
P125	Shunchao Wang	582	A Novel Pedestrian Conflict Research in the Corridor of Rail Transit: A Physiological Approach
P126	Yimin Wang	536	Modeling Car-Following Behavior Considering Impacts of Road Gradients
P127	Yu'ao Wei	1180	Research on Evaluation Method of Driving Behavior Safety for Taxi Driver Based on Space - time Trajectory Feature
P128	Chen Wen	267	Dynamic Traffic Control and Direction Switch of Reversible Lanes for Continuous Flow Considering V2I
P129	Linghan Zheng	913	Optimizing fuel consumption and passenger comfort of urban bus operation at intersections
P130	Fan Wu	1086	Mid-depth Punch-out Research of Continuously Reinforced Concrete Pavement
P131	Mengxiao Wu	115	A method of real-time leading vehicle detection of Adaptive Cruise Control System on curved road based on V2V
P132	Bin Xie	366	Cost Management of Highway Construction Based on The Internal Data of Construction Enterprise
P133	Xinrui Xie	1211	Modeling the Range Information Inaccuracy Risk of Battery Electric Vehicle
P134	Ying Xiong	158	Exploring temporal characteristics of bus trips in Tian'anmen area using smart card data
P135	Shipeng Xu	1158	Study on Departure Station Selection Behavior of Urban Rail Transit under the Condition of Large Passenger Flow
P136	Zhao Xu	1212	Reliability Study of Control Unit of Metro Train Auxiliary Inverter Based on Monte Carlo Algorithm)
P137	Huanxi Xu	81	Swot Analysis on The Development of Maglev Transportation Technology
P138	Ya'ning Xue	529	Dynamic Fare Multiplier Setting Mechanism for Tailored Taxi Service Based on Multinomial Logit Model

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P139	Huang Yan	1136	Home-Work Zone Identification from Taxi GPS Data: A Case Study of Shanghai, China
P140	Xiaomin Yan	1221	A multi-layer Evolution Algorithm for Optimizing Highway Alignments
P141	Yu Yan	616	Comparisons of Mobile Emissions and Traffic Flow Characteristics in Electronic Toll Collection and Manual Toll Collection Lanes
P142	Jingrui Yang	1142	Analysis on Security Systems of the Subway Doors
P143	Qi Yang	285	The Design and Adjustment Method of the Shared Parking Time Window of Typical Malls in Downtown
P144	Qi Yang	281	Study on the Threshold of Bus Arrival Rate of Shared Bus Stops Based on Queuing Probability
P145	Yuesi Yang	766	Coordinated Ramp Metering under the Connected Vehicle Environment
P146	Wei Yin	119	Research on The Identification of Urban Road Traffic State Based on Vehicular Networks
P147	Qing Yu	501	Understanding the Activity Space of Nonresidents Using Mobile Phone Data: A Case of Study of Hongqiao Hub in Shanghai, China
P148	Zhigang Yu	941	Optimal Bus Stop Location to Coordinate Transfer between Urban Rail Transit and Feeder Bus near Urban Road Intersection
P149	Jinsong Yue	1052	An Advanced Method to Rapidly Detect Vehicle-Guardrail Collision Accident and Transmit Alarm Signals on Highways
P150	Xiumeng Yun	964	Study on the Equivalent Travel Time Cost of Road Ride Quality Deterioration
P151	Chunyan Zhang	291	Optimal Deployment of Electric Vehicle Lanes in Mixed Transportation Networks
P152	Guizheng Zhang	888	Comparative analysis of different driving rules in freeways based on the Cellular Automata model and Analytic Hierarchy Process
P153	Jiawei Zhang	1041	Influence of the bridge pier displacement on the slab track deformation of the high-speed railway
P154	Ruobing Zhang	316	Variable Speed Limit Based on Intelligent Vehicle Infrastructure Cooperative Systems
P155	Ruona Zhang	1097	Development of Mode Choice Model to Understand Why Auto Owners Use Rail for Commute in Shanghai
P156	Wenliang Zhang	1137	A Layout Model of Ambiguous Path Identification Stations on Freeway Based on the Greedy Algorithm

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P157	Wenliang Zhang	84	Freeway Traffic State Estimation and Prediction Based on ETC-based Path Identification Toll System
P158	Zhihao Zhang	133	Application of Long Short-Term Memory Neural Network for Multi-Step Travel Time Forecasting on Urban Expressway
P159	Haiyue Zhao	266	Research on Crossing Safety in Urban Unmarked Roadway
P160	Wenwen Zhao	293	Golden-ratio Genetic Algorithm based Parameter Calibration of VISSIM Simulation Model
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P161	Shuqing Zheng	1118	The Analysis of Urban Traffic Accidents Based on Bayesian Network
P162	Zheyi Zhong	413	Taxipoling: research of the demand and the model
P163	Zhiyu Zhong	1149	A Deep Architecture Combining Cnns and Grbms for Traffic Speed Prediction
P164	Min Zhou	1244	Mathematical Programming Model for Passenger Inflow Control of Urban Metro Stations in Peak Hours
P165	Sichu Zhou	704	Impact of advisory speed on intersection traveling efficiency in connected vehicles environment
P166	Jiayu Zhu	1096	Development of Destination Choice Model for Taxi Passengers in Shanghai, China
P167	Jiaojiao Zhu	645	A Headway Adjustment Method Based on Bus Arriving Time Prediction
P168	Jinxin Li	199	A Wavelet Neural Network Method for Evaluating Sustainable Development of Urban Rail Transit
P169	Junqing Shi	1231	Identification of congestion bottleneck in urban road networks
P170	Qian Ye	198	How Taxi Operation Change in the development of E-hailing APPs Case Study in Shanghai, China
P171	Ni'na Zhao	1245	A Study on Drivers' Awareness and Acceptance on PR. China National Highway Route Marker
P172	Jieru Yao	1132	Detection of Video Images with or Without Signal Based on Adaboost Strengthening BP Neural Network

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P173	Hanqi Wang	1198	Multi-Intelligent Railway Emergency Solutions and Effect Evaluations
P174	Yanzhao Han	1150	Actual Timetable Data Cleaning Method in Rail Transit Lines
P175	Shuaifeng Huang	477	Study on Processing Method of Loop Detector Data on an Urban Expressway
P176	Yancong Zhang	1103	Effect of Coarse Aggregate on Coefficient of Thermal Expansion of Road Concrete
P177	Huahua Zhao	540	Application of Fault Injection Technique in the Simulation Test of Vehicle Operation Control System for High-speed Maglev Transportation
P178	Pengyue Tu	1163	Investigation of Lane-Changing Behaviors at the Intersection with Off- Ramps and Lanes Exchanging
P179	Changyu Qian	51	The Design of Human Machine Interface of Head Up Display (HUD) in a Complex Road Environment
P180	Tianjie Xu	1173	A Train Timetable Optimization Approach for Metro Rail Operations Based on Regenerative Energy Utilization
P181	Qinchao Liu	935	Urban Road Traffic State Level Classification Based on Dynamic Ensemble Learning Algorithm
P182	Rui Zhang	1073	The impact of high-speed rail and low-cost carriers on Chinese air market
P183	Jianqiang Wang	758	Driving Safety Field Model Concerning Risk Coefficient Parameters Calibration
P184	Wei Li	243	A Novel Traffic Flow Data Imputation Method for Traffic State Identification and Prediction Based on Spatio-Temporal Transportation Big Data
P185	Jun Chen	1043	Identifying Critical Links in Transportation Networks based on Route Diversity Redundancy
P186	Aizezi Mayila	1119	Different Impacts of Socio-Demographic Characteristics on Travel Mode Choice of Urban and Rural Resident in Eastern China
P187	Junfeng Zhang	142	Traffic Control Management of Long Expressway tunnel - a simulation study
P188	Xujian Guo	990	Road Functional Characters of Shanghai Based on Intersection Turning Movement Proportion
P189	Xiongbin Wu	245	Optimal Model for Tour Route Considering the Multimodal Transportation
P190	Ling Wang	924	A Study on Price Evaluation and Management of Urban Freight Taxi in Shanghai

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P191	Yujie Sun	140	Towards Sustainable Transport: A Transit Signal Priority Model based on Vehicle Emission and Delay Reduction	
P192	Min Jin	32	Driving Decision-Making Analysis of Car-Following for Autonomous Vehicle under Complex Urban Environment	
P193	Yifang Zhang	810	Intelligent Transportation Decision System Based on Big Data Mining	
P194	Xiaolong Ma	2	Person re-identification under the problem of path selection	
P195	Wenjing Wu	1100	A new method for detecting threshold for ramp metering by safety evaluation of merging behavior	
P196	Liyuan Liu	427	Research on the Relationship between Driving Vibration Noise and Tire- road Contact Pressure	
P197	Haiyan Duan	1113	The Security Potency Study for Freeway Windbreaks on Vehicle Safety under Strong Crosswind Conditions	
P198	Chenyuan Chen	229	Modelling asymmetric and non-additive P&R schemes	
P199	Tianming Luo	455	Agent Simulation of Time Allocation on Daily Activity-travel Patterns	
P200	Yuqi Zhang	1172	Research on the Integrated Evaluation Method of Road Transport Modernization	
P201	Junhong Hu	730	Discussion on the Development of Modern Trams in China	
P202	Yuan Zheng	230	Operation Efficiency and Safety Analysis of Integrated Ramp Metering and Mainstream traffic flow control via Variable Speed Limits on Freeway	
P203	Xueqi Li	1181	Study on the location of hub city based on container multimodal transport	
P204	Yifei Cai	282	A new grouping model based on velocity obstacle theory	

Date: July 7-9, 2017

Venue: Tongji Jiading Campus (Address: No. 4800 Caoʻan HIghway, Shanghai, China)

Website: www.cota-home.org/CICTP/CICTP2017.html

Registration Desk

Conference registration desk is located in the lobby of Crowne Plaza Shanghai Anting on July 6 and at the 1st floor of the Jiren Building on July 7-8. The opening time as follows:

July 6 09:00-21:00 Crowne Plaza Shanghai Anting

July 7-8 07:30-18:00 Jiren Building

Onsite Registration Fee: CNY 2200

Registration fee includes:

- Access to all conference and poster sessions
- Refreshments/lunch as listed in the programme
- Programme booklet
- Conference banquet and farewell lunch

The conference banquet is held in the Grand Enhance Ballroom, Crowne Plaza Shanghai Anting (颖奕大宴会厅), Friday, July 7, 18:30-20:30.

The farewell lunch is held in the Grand Enhance Ballroom, Crowne Plaza Shanghai Anting(颖奕 大宴会厅), Sunday, July 9, 12:30. A brief closing ceremony will take place, followed by an award ceremony and a handover ceremony from the CICTP 2017 organizers to the CICTP 2018 organizers.

Badge

At registration you will receive your conference name badge. You are kindly requested to wear your badge during all conference sessions and social events. For lost badges, please visit the onsite registration desk during opening hours. Personal ID is required in order to receive a replacement badge.

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Exhibition Hours

The exhibition area is situated on the 1st floor of Jiren building in Tongji University, and will open at 08:00-18:00, July 7-8 and 08:00-12:00, July 9.

Smoking Policy

Smoking is prohibited at all times in meeting rooms, halls and the exhibition area. Your compliance is appreciated.

Mobile Phones

Please respect the speakers and presenters by ensuring your mobile phone is switched off or muted during all sessions.

Shuttle Bus Schedule

Shuttle bus service will be provided during the meeting period between Tongji Jiading Campus and Crowne Plaza Shanghai Anting from July 7-9, 2017.

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Thursday, July 6, 2017

TIME	FROM	то
10:00- 20:00 (Circulate)	Crowne Plaza Shanghai Anting	Tongji Jiading Campus/Xietong Hotel/Xinci Hotel/ Jiazheng International • Enrgy Hotel
13:10	Crowne Plaza Shanghai Anting	Tongji Jiading Campus
16:40	Tongxin Building, Tongji Jiading Campus	Crowne Plaza Shanghai Anting
17:40	Jiren Building, Tongji Jiading Campus	Xietong Hotel & Crowne Plaza Shanghai Anting
20:00	Xietong Hotel	Crowne Plaza Shanghai Anting

Friday, July 7, 2017

TIME	FROM	то
08:00	Xinci Hotel/ Jiazheng International · Enrgy Hotel	Jiren Building, Tongji Jiading Campus

08:10	Crowne Plaza Shanghai Anting/ Xietong Hotel	Jiren Building, Tongji Jiading Campus	
10:00/15:00	Jiren Building, Tongji Jiading Campus	Xietong Hotel/Crowne Plaza Shanghai Anting/ Xinci Hotel/ Jiazheng International • Enrgy Hotel	
10:30/15:30	Xietong Hotel/Crowne Plaza Shanghai Anting/ Xinci Hotel/ Jiazheng International • Enrgy Hotel	Jiren Building, Tongji Jiading Campus	
18:10	Jiren Building, Tongji Jiading Campus	Crowne Plaza Shanghai Anting	
20:30	Crowne Plaza Shanghai Anting	Xietong Hotel/Xinci Hotel/ Jiazheng International · Enrgy Hotel	

Saturday, July 8, 2017

TIME	FROM	то
07:30	Xinci Hotel/ Jiazheng International · Enrgy Hotel	Jiren Building, Tongji Jiading Campus
07:40	Crowne Plaza Shanghai Anting/ Xietong Hotel	Jiren Building, Tongji Jiading Campus
10:00/15:00	Jiren Building, Tongji Jiading Campus	Xietong Hotel/Crowne Plaza Shanghai Anting/ Xinci Hotel/ Jiazheng International • Enrgy Hotel
10:30/15:30	Xietong Hotel/Crowne Plaza Shanghai Anting/ Xinci Hotel/ Jiazheng International • Enrgy Hotel	Jiren Building, Tongji Jiading Campus
19:30	Chunhe Dining Hall, Tongji Jiading Campus	Xietong Hotel/Crowne Plaza Shanghai Anting/ Xinci Hotel/ Jiazheng International · Enrgy Hotel

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Sunday, July 9, 2017

TIME	FROM	то	
07:30	Xinci Hotel/ Jiazheng International · Enrgy Hotel	Jiren Building, Tongji Jiading Campus	
07:40	Crowne Plaza Shanghai Anting/ Xietong Hotel	Jiren Building, Tongji Jiading Campus	
10:00	Jiren Building, Tongji Jiading Campus	Xietong Hotel/Crowne Plaza Shanghai Anting/ Xinci Hotel/ Jiazheng International • Enrgy Hotel	
10:30	Xietong Hotel/Crowne Plaza Shanghai Anting/ Xinci Hotel/ Jiazheng International • Enrgy Hotel	Jiren Building, Tongji Jiading Campus	
12:15/ 12:40	Jiren Building, Tongji Jiading Campus	Crowne Plaza Shanghai Anting	
14:00	Crowne Plaza Shanghai Anting	Tongji Jiading Campus/ Xietong Hotel/Xinci Hotel/ Jiazheng International • Enrgy Hotel	

Catering during the conference

Catering	Date	Time	Place
Lunch	July 7-8	12:00-13:30	The 1 st & 2 rd floor of Chunhe Dining Hall, Tongji Jiading Campus
Coffee Break	July 7-9	09:50-10:00 15:20-15:40	The 2 rd floor of Jiren building, Tongji Jiading Campus
The Conference Banquet	July 7	18:30-20:30	The Grand Enhance Ballroom, Crowne Plaza Shanghai Anting
The Farewell Lunch	July 9	12:30-14:00	The Grand Enhance Ballroom, Crowne Plaza Shanghai Anting

Conference Secretariat

The conference secretariat, based in Tongji 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.

CICTP2017 Secretariat:

305, Kunyang Int'l Business Plaza 798 Zhaojiabang Rd. Shanghai, 200030, P.R.China Email: <u>cictp@fumed.com.cn</u>

Hotel Information

♣ Crowne Plaza Shanghai Anting ★ ★ ★ ★ ★
(Website: <u>www. crowneplaza.com</u>)

Add: No. 6555 Boyuan Road, Jiading District, Shanghai 201804, P.R.China Distance to venue: 3.2KM

Jiazheng International · Enrgy Hotel ★ ★ ★ ★ ☆
(Website: <u>www.jiazhenghotel.com</u>)

Add: Anting Town, Jiading District, Shanghai on the 28th Road Mo Yu Distance to venue: 5.6 KM

↓ Xinci Hotel ★ ★ ☆ ☆ ☆
(Website: <u>www.burg-hotel.com</u>)

Add: 29 Moyu Road Anting, Jiading District, Shanghai

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(Website: www.iwenfei.com/web/index17430.html)

Add: 4671 Caoan Road, Jiading, Shanghai

* Kindly Remind: The Organizing Committee is not responsible for any hotel reservation. Please kindly reserve your accommodation in advance via travel agent/third party.





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Tongji Jiading Campus Map





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Local Transportation

Shanghai Hongqiao Airport (SHA) → Tongji Jiading Campus
DISTANCE: Approximately 20.4 km

BY TAXI:

Fee: 70 CNY Travel Time: 25 Min

BY SUBWAY:

Fee: 8 CNY Travel Time: 2H LINE 2(ShangHai Hongqiao Railway Station) → LINE 3(Zhong Shan Park Station) →get off at Cao Yang Road Station → BUS Bei An → get off at Cao'an road and Lv Yuan Road

搭乘地铁 2 号线 (虹桥 2 号航站楼站) → 换乘地铁 4 号线(中山公园站) → 曹杨路站 (4 号口) 下 车乘坐巴士北安线 (安亭汽车站方向) → 曹安公路绿苑路站下车步行至同济大学 (嘉定校区)

● Shanghai Pudong Internationla Airport → Tongji Jiading Campus DISTANCE: Approximately 79 KM

BY TAXI:

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Fee: 274 CNY Travel Time: 2H

BY SUBWAY

Fee: 10 CNY Travel Time: 3H BUS NO.8 Airpot → get off at Haitian three Road and Qihang Road →LINE 2 East Extension Line →LINE 7 (Long Yang Station) → get off at Zhen Ping Road Station → BUS Bei An → get off at Cao'an road and Lv Yuan Road 搭乘地铁 2 号线(东延伸段) → 换乘地铁 2 号线(广兰路)→换乘地铁 11 号线(江苏路站)→ 上海汽车城站(1口)下车换乘巴士北安线(安亭汽车站方向)→曹安公路绿苑路站下车步行至同 济大学(嘉定校区)

ShangHai Railway Station → Tongji Jiading Campus
DISTANCE: Approximately 32.4 KM

BY TAXI: Fee: 112 CNY Travel Time: 50 Min

BY SUBWAY:

Fee: 8 CNY Travel Time: 1h36m LINE 3 (ShangHai Railway Station) \rightarrow get off at Cao Yang Road Station \rightarrow BUS Bei An \rightarrow get off at Cao'an road and Lv Yuan Road

搭乘地铁4号线(上海火车站)→曹杨路站(4号口)下车乘坐巴士北安线(安亭汽车站方向)→

曹安公路绿苑路站下车步行至同济大学(嘉定校区)

ShangHai Hongqiao Railway Station →Tongji Jiading Campus

DISTANCE: Approximately 20 KM

BY TAXI:

Fee:67 CNY Travel Time: 25 Min

BY SUBWAY:

Fee: 8 CNY Travel Time: 2H LINE 2(ShangHai Hongqiao Railway Station) → LINE 3(Zhong Shan Park Station) →get off at Cao Yang Road Station → BUS Bei An → get off at Cao'an road and Lv Yuan Road

搭乘地铁 2 号线 (上海虹桥火车站) → 换乘地铁 3 号线(中山公园站) → 曹杨路站 (4 号口) 下车 乘坐巴士北安线 (安亭汽车站方向) → 曹安公路绿苑路站下车步行至同济大学 (嘉定校区)

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Shanghai Metro System





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Bart van Arem

Full Professor of Transport Modeling, Chair of the Department Transport & Planning, Director of the TU Delft Transport Institute



Robert L. Bertini

Director, Center for Urban Transportation Research and Professor, Civil and Environmental Engineering, University of South Florida



Hai Yang

Chair Professor, Department of Civil and Environmental Engineering The Hong Kong University of Science and Technology



Chandra Bhat

Director, Center for Transportation Research University Distinguished Teaching Professor Adnan Abou-Ayyash Centennial Professor in Transportation Engineering





Ran Bin

Professor National Distinguished Expert of China Director, Institute of Internet of Mobility Southeast University

Avishai (Avi) Ceder

the Founder and was the Director, until 2014, of the transportation research centre (TRC) in the University of Auckland

Head of the Transportation Engineering and Geo-Information Department at the Technion the Chief Scientist at the Israel Ministry and the Israel delegate to the Transport Program of the European Community



Gang-Len Chang

Professor and the Director of Traffic safety and Operations Lab. at The Department of Civil Engineering The manager of the Applied Technology for Traffic Safety Program sponsored by Maryland State Highway

Administration of Maryland



Anthony Chen

Professor in the Department of Civil and Environmental Engineering at the Hong Kong Polytechnic University (PolyU) in Hong Kong



Der-Horng Lee

Professor at the Department of Civil and Environmental Engineering, National University of Singapore (NUS)



Hong K. Lo

Head and Chair Professor of Civil and Environmental Engineering of the Hong Kong University of Science and Technology



Qiang Meng

Professor in the Department of Civil and Environmental Engineering at National University of Singapore (NUS) Co-director of NUS-LTA Transportation Centre



Pitu Mirchandani

Professor of Computing, Informatics, and Decision Systems Engineering at Arizona State University Senior Sustainability Scientist within the Global Institute of Sustainability Director of Advanced Transportation and Logistics Algorithms and Systems (ATLAS) Research Center



Markos Papageorgiou

Professor at the Technical University of Crete, Greece





Professor and Director, Urban Systems Lab Imperial College London



Tor Vaa Senior Principle Engineer Norwegian Public Roads Administration



Special Guests

CICTP2017

C. Michael Walton

Professor of Civil Engineering and holds the Ernest H. Cockrell Centennial Chair in Engineering at The University of Texas Austin



Kelvin Wang

Chair Professor Oklahoma State University, Southwest Jiaotong University



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Yinhai Wang

Professor and Director University of Washington



Jieping Ye VP of Didi Chuxing and a Didi Fellow Associate professor of University of Michigan



Anming Zhang

Full Professor in Operations and Logistics Vancouver International Airport Authority Chair Professor in Air Transportation at Sauder School of Business, University of British Columbia (UBC)



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Conference Speakers & Organizers

Dr. Bart van Arem



Full Professor of Transport Modeling, Chair of the Department Transport & Planning, Director of the TU Delft Transport Institute Delft University of Technology, Faculty of Civil Engineering and Geosciences Department of Transport & Planning Stevinweg 1, 2628 CN Delft, P.O. Box 5048, 2600 GA Delft, The Netherlands, b.vanarem@tudelft.nl http://www.citg.tudelft.nl/BvanArem

The research of Bart van Arem focuses on modelling of traffic and transport systems, with explicit consideration of vehicle automation. In the Netherlands, he has worked with NXP, HERE, TomTom and Technolution on advisory in-car systems in several nationally funded projects. He worked on modelling High Performance Vehicles Stream for FHWA in collaboration with UC Berkeley, on congestion reduction at sags by intelligent vehicles with Toyota and on driver support and automation with the ITS Research Centre of the Chinese Ministry of Transport, where is a Guest Researcher.

Dr. Kay W. Axhausen



Title: Professor Affiliation: ETH Zürich Address: Rämistrasse 101 Phone: +41763680249 Fax: E-mail: axhausen@ethz.ch URL: www.ivt.ethz.ch

Dr. K.W. Axhausen has been 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 35 years contributing especially to the literature on stated preferences, micro-simulation of travel behaviour, valuation of travel time and its components, parking behaviour, accessibility impacts and travel behavior measurement.

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Dr. Xuegang (Jeff) Ban



Title: Associate Professor Affiliation: University of Washington Address: 121 G More Hall, Seattle WA 98195 Phone: 206-543-9655 Fax: 206-543-1543 E-mail: banx@uw.edu URL: faculty.washington.edu/banx

Dr. Xuegang (Jeff) Ban is an Associate Professor of the Department of Civil and Environmental Engineering at the University of Washington. He received his B.S. and M.S. in 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 System Modeling and Simulation, Urban Traffic System Modeling and Control, 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 *IEEE Transactions on Intelligent Transportation Systems, Journal of Intelligent Transportation Systems*, and *Transportation Research Part C*.

Dr. Robert Bertini



Title: Director, Center for Urban Transportation Research and Professor, Civil and Environmental Engineering Affiliation: University of South Florida Address: 4202 E. Fowler Ave., CUT100 Tampa, Florida 33620-5375 USA Phone: 813-974-9797 | Fax: 813-974-5168 E-mail: rbertini@usf.edu URL: bertini.eng.usf.edu

Robert L. Bertini earned his B.S. in Civil Engineering from California Polytechnic State University San Luis Obispo, an M.S. in Civil Engineering from San Jose State University, and a Ph.D. in Civil Engineering from the University of California at Berkeley. His research interests are in sustainable transportation solutions, traffic flow theory informed by empirical and experimental measurements, intelligent transportation systems (ITS), multimodal transportation "big data" for improving performance

measurement, planning and operations, and proactive traffic management and operations. He chairs the National Academies' Transportation Research Board Operations Section, and received the National Science Foundation CAREER Award. Bertini served as Professor at Portland State University and Deputy Administrator of the Research and Innovative Technology Administration at the U.S. Department of Transportation.

Dr. Chandra Bhat



Title: Director, Center for Transportation Research University Distinguished Teaching Professor Adnan Abou-Ayyash Centennial Professor in **Transportation Engineering** Affiliation: The University of Texas at Austin Address: Department of Civil, Architectural and **Environmental Engineering** 301 E. Dean Keeton St, Stop C1761, Austin, TX 78712. USA Phone: 512-471-4535 Fax: 512-475-8744 E-mail: bhat@mail.utexas.edu URL: http://www.caee.utexas.edu/prof/bhat/home.h tml

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Dr Han is Assistant Professor at Imperial College London. He received his PhD degree in mathematics from Penn State University in 2013. His research interests include traffic network modeling, traffic control and management, sustainable transportation, air transportation, and big-data analytics. He has published one book and over 80 papers in leading journals and conferences. He is on the editorial boards of Transportation Research Part B and Part C. He was named "Chan Wui & Yunyin" Rising Star Fellow by Transportation Research Board in 2016. He is Chief Scientist of Cloud-Guizhou Big Data Science & Application Research Center, Visiting Professor at Nanjing University of Aeronautics and Astronautics, Special Consultant at Tsinghua Tongheng Urban Planning & Design Institute, and President of COTA-Europe.

Dr. Avishai (Avi) Ceder



CICTP2017

Affiliation: Honorary Professor at the University of Auckland and Professor in Transportation at the Technion – Israel Institute of Technology Phone: +972-4-8311212 Mobile: +972-50-5216084 E-mail: a.ceder@auckland.ac.nz, ceder@technion.ac.il URL: http://www.technion.ac.il/~ceder/index.ht ml, http://www.cee.auckland.ac.nz/people/aceder

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Avishai (Avi) Ceder is the Founder and was the Director, until 2014, of the transportation research centre (TRC) in the University of Auckland. Avi was Head of the Transportation Engineering and Geo-Information Department at the Technion, the Chief Scientist at the Israel Ministry and the Israel delegate to the Transport Program of the European Community. He was a visiting Professor twice at MIT, the University of California at Berkeley, and at Universities of Hong Kong, Tokyo, and Hiroshima and he is a member of various international symposia and workshops (e.g., ISTTT, CASPT). In 2016 Avi released the 2nd edition of the book 'Public Transit Planning and Operation: Modelling, Practice and Behavior' 742 p. by CRC Press, Boca Raton, USA.

Dr. Gang-Len Chang



Title: Professor Affiliation: The University of Maryland, College Park. Address: Department of Civil Engineering, the University of Maryland, College Park, MD 20742, USA Phone: 1-301-405-1953 Fax: 1-301-405-2585 E-mail: gang@umd.edu URL:

Dr. Gang-Len Chang is a professor and the Director of Traffic safety and Operations Lab. at The Department of Civil Engineering since 1996, and also the manager of the Applied Technology for Traffic Safety Program sponsored by Maryland State Highway Administration of Maryland since 1998. Dr. Chang's primary research areas have been on traffic network analysis and intelligent
transportation systems control. He has received the research excellence award from Maryland State Highway Administration, and Martin Marietta University Research Award for ITS development. He currently serves as the chief editor for Journal of Urban Planning and Development (ASCE), and the associate editor for Journal of Transportmetrica. Dr. Chang has been actively involved in design of the early phase of the ITS program (Mobility 2000, and IVHS) in US. He has worked as a technical advisor for many ITS programs in developing and developed countries.

Dr. Anthony Chen



Title: Professor Affiliation: Hong Kong Polytechnic University Address: Department of Civil and Environmental Engineering Hung Hom, Kowloon, Hong Kong Phone: 852-3400-8327 Fax: 852-2334-6389 E-mail: anthony.chen@polyu.edu.hk URL: http://www.polyu.edu.hk/cee/people/anth ony.chen

Dr. Anthony Chen is a Professor in the Department of Civil and Environmental Engineering at the Hong Kong Polytechnic University (PolyU) in Hong Kong. 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 *Transportation*, and an editorial board member of *Transportation Research Part B: Methodological*.

Dr. Ningning Chen



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Title: Senior Engineer Affiliation: Guangdong Zhenye UCTRL Technology Corp. LTD Address: Unicom Square, Boailiu Road, Zhongshan, Guangdong, PRC Phone: (+86) 18620950323 Fax: (+86)0760-85528282 E-mail: chennn@uctrl.cn URL: www.uctrl.cn

Dr. Chen Ningning received his Ph.D. degree in 2010 from Sun Yat-sen University. He is a Senior Engineer and the ECO of Zhenye UCTRL Corp. LTD. (Stock Code: 899376). Dr.Chen Ningning's research focuses on the practical methods for traffic signal optimization and traffic organization. He has the experiences in more than 4800 intersections in more than 30 cities.

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Dr. Xiaohong Chen



Title: Professor. College of Transportation Engineering, Tongji University. Director of National Maglev Transportation Engineering R&D Center. Fellow Professor of UNEP-TONGJI. Affiliation: Tongji University Address: No.4800 Cao'an Road, Shanghai, China. Phone: +86-21-65981860 Fax: +86-21-65981860 E-mail: chenxh@tongji.edu.cn URL: http://tpm.tongji.edu.cn/

Prof. Chen(Ph.D.) has long been engaged in the field of urban transport strategy, system planning and policy studies for more than 30 years. She was the main planner of the transportation system for Shanghai World Expo 2010 and made outstanding contributions for the system operation. Now she is the key advisory expert of Shanghai master plan for 2040. She has been actively involved in many professional societies and activities and worked as an advisor of urban long-tern plan for WuHan, ChongQing, ChangSha, and ShenZhen. She has completed 2 projects of National Natural Science Foundation, 1 Key Program of National Social Science Foundation, 1 project of the National High Technology Research and Development Program, and so on. In recognition of her outstanding career achievements and professional influence, she was awarded the honorary title of "National Woman Pacesetter", and elected as the Deputies to 14th Shanghai people's Congress (2012-2017).

Dr. Xiqun Chen



Title: "Hundred Talents Program" Professor Affiliation: Zhejiang University Address: B828 Anzhong Building, 866 Yuhangtang Rd, Hangzhou 310058, China Phone: (+86)571-88208938 Fax: E-mail: chenxiqun@zju.edu.cn URL: http://person.zju.edu.cn/xiqun

Dr. Xiqun (Michael) Chen is currently a "Hundred Talents Program" Professor at the College of Civil Engineering and Architecture, Zhejiang University working in the fields of traffic and transportation management, traffic flow modeling, simulation-based optimization, and intelligent transportation systems. He received the B.E. and Ph.D. degrees from the Department of Civil Engineering, Tsinghua University, in 2008 and 2012, respectively. He worked in the University of Maryland and National University Transportation Center during 2013-2015. His thesis entitled "Stochastic Evolutions of Dynamic Traffic Flow: Modeling and Application" received the 2013 IEEE Intelligent Transportation Systems Society Best Ph.D. Dissertation Award. In the aforementioned areas, he has published 1 book, 2 book chapters, over 40 peer review journal papers and over 50 conference papers.

Mr. Zhenwu Chen



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Title: Deputy Director of Traffic information and model Institute Affiliation: Shenzhen Urban Transportation Planning Center Address: 10 floor Huiming Building, No. 3046, Aiguo Road, Luohu District, Shenzhen, China Phone: 15986714064 Fax: 0755-83949389 E-mail: czw@sutpc.com URL: www.sutpc.com

Zhenwu Chen, Deputy Director of Traffic information and model Institute. He has long been engaged in the application research of big data, traffic model and rail transit passenger flow forecast. Recent work focuses on the development of a large-scale, real-time parallel system for urban transportation systems, providing support for urban transportation construction and management. He has presided over more than 10 major items in Shenzhen, and won national, provincial and municipal awards.

Mr. Luke Cheng



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. As a Chinese-American who grew up in Taiwan, he has grown to love and respect the diverse cultures in the region and is looking forward to supporting fellow transportation engineers and planners in their effort to reduce traffic impacts and to improve quality of life for the people of Asia.

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 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.

Dr. Kelvin Cheu



Title: Professor Affiliation: The University of Texas at El Paso Address: Dept. of Civil Engineering, 500 University Ave., El Paso, TX 79968-0516, USA Phone: +1-915-886-8589 Fax: +1-915-747-8037 E-mail: rcheu@utep.edu URL: http://expertise.utep.edu/profiles/rcheu

Dr. Kelvin Cheu (Ruey Long Cheu in publications) was born in Malaysia, received his BEng and Meng degrees at The National University of Singapore (NUS) and PhD degree at University of California at Irvine. He was a professor at NUS before becoming a professor at The University of Texas at El Paso. He has published more than 70 EI/SCI journal articles, and is the 12th most highly cited Google Scholar in Transportation Engineering. The ASCE named him a Fellow as "a pioneer in bringing artificial intelligence techniques into the transportation engineering field". He is also a PE in Texas, Senior Member of IEEE, Editor-in-Chief of International Journal of Transportation Science & Technology, and Guest Professor at Tongji University.

Dr. Keechoo Choi



Title: Professor Affiliation: Dept. of Transportation Systems Engineering of Ajou University Address: 206, Worldcup-ro, Yeongtong-Gu, Suwon-Si, KOREA (Republic Of) Phone: +82-31-219-2538 Fax: +82-31-219-2973 E-mail: keechoo@ajou.ac.kr

Dr. Keechoo Choi is a professor of transportation and a director for the National Engineering Research Center of Sustainable Urban Transportation at Ajou University. He is the president of Korean Society of Transportation and chairman of the Korean PIARC. His specialities include travel demand forecasting,

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travel time estimation for ITS and C-ITS, sustainable transportation with environmental concerns, and public transportation. His recent research area also covers autonomous and connected vehicle implementation with infrastructure revision. He is the founding and current Editor-in-Chief of International Journal of Sustainable Transportation, editorial board member of Journal of ITS, both by Taylor and Francis, also a board member of Transportmetrica Part B.

Dr. Lianbo Deng



Title: Professor

Affiliation: School of Traffic and Transportation Engineering, Central South University Address: 22 Shaoshan South Road, Changsha, Hunan 410075, P. R. China Phone: +86-13873102607 Fax: 0731-82655326 E-mail: lbdeng@csu.edu.cn URL:http://stte.csu.edu.cn/bk/Blog.aspx?id=Deng %20Lianbo

Dr. Deng is a professor in transportation planning and operation. Dr. Deng holds a PhD degree of Transportation Planning and Management from Central South University (2007) and worked as a visiting scholar at Newcastle University (2011-2012). His research interests include railway operation research and modeling. Dr. DENG has published about 70 peer-reviewed publications, over 50 SCI/EI-indexed journal articles including some outstanding journal of railway research (Journal of rail and rapid transit, China Railway Science and Journal of the China Railway Society, etc). He has presided over 10 high-profile research projects funded by China National Natural Science Foundation, Ministry of Education, China Railway Corporation, Fok Ying Tong Education Foundation (Hong Kong), Natural Science Foundation of Hunan Province, etc.

Dr. Dong Zejiao



Title: Dr., Prof., School Dean Assistant Affiliation: Harbin Institute of Technology Address: Room B7319, School of Transportation, Harbin Institute of Technology, No.73, Huanghe Road, Nangang District, Harbin 150090 Phone: 86-15846533166 Fax: / E-mail: hitdzj@hit.edu.cn URL: http://homepage.hit.edu.cn/dongzejiao

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

Dr. Lili Du



Title: Associate Professor Affiliation: Illinois Institute of Technology Address: 3201 S Dearborn Street, Chicago, IL Phone: 312-5674326 Fax: E-mail: Idu3@iit.edu URL: https://engineering.iit.edu/faculty

Dr. Du is an associate professor at Illinois Institute of Technology. She received B.S. in Mechanical Engineering from Xi'an Jiaotong University; M.S. in Industrial Engineering from Tsinghua University; Ph.D. in Decision Sciences and Engineering Systems with a minor in Operations Research and Statistics from Rensselaer Polytechnic Institute; worked as a Research Associate at Purdue University. Dr. Du's research focuses on Connected and Autonomous Vehicle Systems, Interdependent Infrastructure Network Modeling, Multimodal Transportation Systems, Distributed Computation, Optimization and Data Fusion Applications in Traffic Flow Analysis. Her research has been funded by NSF, IDOT, and UTC in USA. Dr. Du is a recipient of NSF-CAREER Award in 2016 and Nayar Prize I at IIT in 2015. Dr. Du serves on the editorial boards of Transportation Research Part B, and International Journal of Transportation

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Sciences and Technology. She is a member of Transpiration Research Board Committee on Transportation Network Modeling (ADB30) and serves on the editorial board too.

Dr. Yan Gao



Title: Associate research fellow Affiliation: Traffic Management Research Institute of the Ministry of Public Security Address: No 88. Qianrong Road, Binhu District, Wuxi, 214151 Phone: (86)0510-85505126, (86)13656198737 Fax: (86)0510-85511909 E-mail: gaoyan20022002@126.com

As director of Department of Traffic Safety of the Traffic Management Research Institute of the Ministry of Public Security, director Gao's research field mainly involves traffic accident identification, feature analysis of driving behavior, development of traffic safety education products, and etc. Gao has participated in and taken charge of 10 national and provincial key research projects, and won the first prize of science and technology award of the Ministry of Public Security. He has obtained 2 national patents for invention, 4 patents for utility models, and presided over 5 industry standards. He was appointed as the member of National Committee of Experts on Motor Vehicle Insurance of China Insurance Association, the member of Committee of Experts on Injury Prevention and Control of CDC in China, the member of China Road Traffic Accident Prevention Group of GRSP, and the member of the fourth China Youth Science and technology Workers' Committee of China Communications and Transportation Association.

Dr. David Hurwitz



Title: Associate Professor Affiliation: Oregon State University Address: Phone: 541-737-9242 Fax: 541-737-3052 E-mail: david.hurwitz@oregonstate.edu URL: http://cce.oregonstate.edu/hurwitz

Dr. David Hurwitz is an associate professor of transportation engineering and director of the driving and bicycling research laboratory in the School of Civil and Construction Engineering at Oregon State University (OSU), where David also serves as the associate director for the Pacific Northwest

Transportation Consortium. David conducts research in the areas of transportation human factors, transportation safety, and traffic control devices. In particular David is interested in the consideration of user behavior in the design and innovation of transportation systems. Additionally, David is the vice-chair of the ITE Education Council, chair of the ASCE Committee on Faculty Development, and secretary of TRB's Simulation and Measurement of Vehicle and Operator Performance committee (AND30), and Traffic Control Devices committee (AHB50).

Dr. Asad Khattak



Title : Beaman Professor/Transportation Program Coordinator, University of Tennessee Affiliation: University of Tennessee, Knoxville Address: 322 John D. Tickle Building, The University of Tennessee, Knoxville, TN 37996-2313 Phone: +1- 865 9747792 or +1-919 2593368 E-Mail: akhattak@utk.edu Web: http://akhattak.engr.utk.edu/

Dr. Asad J. Khattak is Beaman Distinguished Professor of Civil & Environmental Engineering at The University of Tennessee, Knoxville. He also serves as (i) the Coordinator for the Transportation Group in the Department, ii) Associate Director for the Collaborative Sciences Center for Road Safety—a National University Transportation Center consortium devoted to safety, and iii) Co-Director of the Initiative for Sustainable Mobility, a campus-wide organized research unit. Dr. Khattak's research focuses on various types of innovations related to intelligent transportation technologies, transportation safety, and sustainable transportation. Dr. Khattak received his Masters and Ph.D. degrees in Civil Engineering from Northwestern University in 1988 and 1991, respectively. Dr. Khattak is: 1) Editor of Science Citation Indexed Journal of Intelligent Transportation Systems, with a 2-year impact factor of 1.56 in 2015, and 2) Associate Editor of SCI-indexed International Journal of Sustainable Transportation (IF = 3.20).

Dr. Huaizu (Oliver) Gao



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Title: Associate Professor, Director Affiliation: Center for Transportation, Environment, and Community Health (CTECH) Cornell University Address: School of CEE Phone: (607)254-8334 Fax: E-mail: hg55@cornell.edu URL:

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

Dr. Yuan Gao



Title: Associate Researcher Affiliation: Beijing Jiaotong University Address: No.3 Shangyuancun, Haidian District Beijing 100044 P. R. China Phone: 15811281900 Fax: E-mail: gaoyuan@bjtu.edu.cn URL: http://faculty.bjtu.edu.cn/8626/

Beijing, China, in 2013. He is currently an associate researcher with the State Key Laboratory of Rail Traffic Control and Safety, Beijing Jiaotong University. His research interests include rail traffic optimization, public transport, network optimization, and uncertain programming. He is the author or coauthor of more than 20 papers published in international journals, including Transportation Research Part B/C/D, IEEE Transactions on Fuzzy Systems, Omega and Information Sciences.

Dr. Zhenhai Gao



Title: Professor Affiliation: State Key Laboratory of Automotive Simulation and Control, Jilin University Address: Renmin Street #5988, Nanling Campus of Jilin University, Changchun, P.R.China Phone: +86-13654371026 Fax: +86-0431-85094338 E-mail: gaozh@jlu.edu.cn URL: http://auto.jlu.edu.cn/高振海/

Dr. Gao Zhenhai, Professor, doctorial tutor. He is currently the secretary-general of Automotive Technology Education Branch of SAE-China, the distinguished member of Intelligent Connected Vehicle Innovation Alliance, the chairman of Industrial Design Association in Jilin Province, the foreign researcher of Tokyo University. He is also the editorial board member of International Journal of Human Factors Modelling and Simulation. In 2007, he was elected in the Fok Ying-Tong Education Foundation for Young Teachers in the Higher Education Institutions of China. In 2008, he was elected in New Century Talent Supporting Project by education ministry. In 2016, he was elected in national outstanding scientific and technical workers. His research interests include driver operation behavior analysis, automotive HMI design, Intelligent Connected Vehicle.

Mr. Mark Garrity



Title: Mr. Mark N Garrity AICP Affiliation: OC Global Address: 9F, 20-2, Nishishinjuku 3-chome, Shinjuku-ku, Tokyo 163-1409, Japan Phone: +81-03-6311-7898 Fax: +81-03-6311-8043 E-mail: mark.garrity@oriconsul.com URL: http://www.oriconsulglobal.com/english/inde x.php

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Mark Garrity has more than 25 years of experience creating transportation solutions that foster livable and sustainable communities. He was Deputy Director of Transportation Services for the City of Honolulu from 2013 to 2017, where he was involved in several initiatives including "Complete Streets", integration of the City's bus system with the rail system, encouraging Transit Oriented Development (TOD), establishing protected bike lanes, and supporting establishment of bike share, car share, and "parklets". He led a working group developing a new electronic fare collection system, and set up a program focused on improving walking, bicycling and bus connections to rail transit stations. Mark is now with OC Global, a Tokyo-based consulting firm where he works on transportation and urban development projects around the World.

Dr. Ren-Yong Guo



Title: Professor Affiliation: Beihang University Phone: 15148066375 E-mail: buaa_guorenyong@126.com

Dr. Ren-Yong Guo is currently a professor in the School of Economics and Management, Beihang University. He received his PhD degree from Beihang University, China. Dr. Guo specializes in modeling and analyzing of pedestrian flow, and network traffic flow assignment. He has published more than 40 research papers in such journals as Transportation Research (Parts B and C), Transportation Science, Journal of Statistical Mechanics, Simulation, and Physical Review E. His doctoral dissertation won the Award Nomination of the Excellent Doctoral Dissertation of China in 2011. He obtained the Program for New Century Excellent Talents in University of China in 2012. He obtained the National Natural Science Foundation of China for Excellent Young Scholars in 2016.

Dr. Xiaolei Guo



Title: Associate Professor Affiliation: Odette School of Business, University of Windsor Address: 401 Sunset Ave., Windsor, Ontario, Canada, N9B 3P4 Phone: 1-519-253-3000 ex 3126 Fax: 1-519-973-7073

E-mail: guoxl@uwindsor.ca URL: http://odette.uwindsor.ca/xiaolei-guo

Dr. Xiaolei Guo is an associate professor in the Odette School of Business at the University of Windsor, Ontario, Canada. He is also affiliated with the Cross-Border Institute at the University of Windsor. He holds a B.S. degree from Tsinghua University, received his PhD degree from the Hong Kong University of Science and Technology, and worked as a post-doctoral associate at the University of Minnesota. His primary research interests are in the areas of road pricing, infrastructure planning, transportation network modeling, optimization of complex systems, and supply chain management. He has many publications in top journals such as Transportation Research Part B. He serves as an associate editor at Journal of Management Science and Engineering.

Dr. Der-Horng Lee



Title: Professor Affiliation: National University of Singapore Address: Dept of Civil & Engineering, BLK E1A #07-16, Singapore 117576 Phone: +65-6516-2131 Fax: +65-6779-1635 E-mail: DHL@NUS.EDU.SG URL: http://www.eng.nus.edu.sg/cee/people/ceelee dh/

Dr Lee Der-Horng Lee is a professor at the Department of Civil and Environmental Engineering, National University of Singapore (NUS). His research interests include Intelligent Transportation Systems (ITS), Smart and Sustainable Urban Mobility, Transportation Planning and Policy, etc. Professor Lee is a Chartered Engineer (Transportation Engineering) in Singapore and Fellow of Institution of Engineers Singapore (IES). Professor Lee has not only been recognized by his international academic peers but also well-received by government agencies and transportation industry as a thought leader. Professor Lee has been extensively consulted and quoted by international media (including CNN, BBC, NHK, ANN, KBS, Xin Hua, Channel News Asia, Singapore Press Holdings, etc.) with his views and proposals on policies and matters of transportation in Singapore and Asia.

Dr. Ke Han



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Title: Assistant Professor Affiliation: Imperial College London Address: 605 Skempton Building, Imperial College Road, SW7 2BU, London Phone: +44 (0)20-7594-5682 Fax: +44 (0)20-7594-6102 E-mail: k.han@imperial.ac.uk URL: http://www.imperial.ac.uk/people/k.han

Dr Han is Assistant Professor at Imperial College London. He received his PhD degree in mathematics from Penn State University in 2013. His research interests include traffic network modeling, traffic control and management, sustainable transportation, air transportation, and big-data analytics. He has published one book and over 80 papers in leading journals and conferences. He is on the editorial boards of Transportation Research Part B and Part C. He was named "Chan Wui & Yunyin" Rising Star Fellow by Transportation Research Board in 2016. He is Chief Scientist of Cloud-Guizhou Big Data Science & Application Research Center, Visiting Professor at Nanjing University of Aeronautics and Astronautics, Special Consultant at Tsinghua Tongheng Urban Planning & Design Institute, and President of COTA-Europe.

Dr. Xiaozheng He



Title: Assistant Professor Affiliation: Rensselaer Polytechnic Institute Address: 110 8th St., Troy, NY 12180 Phone: 1-518-276-8043 Fax: 1-518-276-4833 E-mail: hex6@rpi.edu **URL: homepages.rpi.edu/~hex6/**

Dr. He is an assistant professor in the Department of Civil and Environmental Engineering at RPI. He worked as a research associate in the NEXTRANS Center at Purdue University before joining RPI. He received his Ph.D. degree from the University of Minnesota, Twin Cities. Dr. He's research areas are in modeling transportation systems with impacts of the emerging technologies, disaster response planning and operations, and Intelligent Transportation Systems. Dr. He's research has been supported by the NSF and U.S. DOT. He has published 31 referred journal papers and 12 conference proceedings. He serves as the reviewer for a number of journals including Transportation Research Part B/C/D/E, IEEE Transactions on ITS, European Journal of Operational Research, and Networks and Spatial Economics.

Dr. Zhaocheng He



Title: Professor Affiliation: Research Center of Intelligent Transportation System, Sun Yat-Sen University Address: Phone: 020-39332772-505 Fax: 020-84113689 E-mail: hezhch@mail.sysu.edu.cn URL: http://its.sysu.edu.cn/StaffInfo.aspx?type=c&seco ndary_id=0&page_id=84&staff_id=127

Dr. Zhaocheng He is a professor in the School of Engineering, Sun Yat-Sen University. His research is mainly about the modeling and simulation of traffic flow, big traffic data mining and intelligent transportation system. He published 33 papers as first author and totally more the 60 articles in journals and conferences, over 30 of which were included in SCI or EI. He received the second prize of National Science and Technology Progress Award in 2014, the first prize of China Highway and Transportation Society in 2011 and the second prize of Guangdong Provincial Science and Technology Progress Award in 2007.

Dr. Xiaobing Hu



Title: Associate Professor Affiliation: Beijing Normal University Address: 19 Xinjie Kouwai Street, Haidian District, Beijing, P.R.China Phone: +86 15210285641 Fax: +86 10 58805461 E-mail: huxiaobing@bnu.edu.cn URL:

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Dr. Xiao-Bing Hu received the B.S. degree in aviation electronic engineering from the Civil Aviation University of China, Tianjin, China, in 1998, the M.S. degree in automatic control engineering from Nanjing University of Aeronautics and Astronautics, Nanjing, China, in 2001, and the Ph.D. degree in aeronautical and automotive engineering from Loughborough University, Leicestershire, U.K., in 2005.

He is currently an Associate Professor at the Academy of Disaster Reduction and Emergence Management, Beijing Normal University, China. He has been awarded with an Experienced Marie Curie Fellowship by the EU, and with an Honorary Associate Professorship by the School of Engineering, University of Warwick, UK. His major field of research includes integrated risk governance, air traffic management, complex networks, artificial intelligence.

Dr. Helai Huang



Title: Vice Dean of School of Traffic and Transportation Engineering, Director of Urban Transport Research Center, Director of Smart Transport Key Lab of Hunan Province, Director of Smart Transport Design Unit, Central South University.

Phone: +86 731 82656631 E-mail: huanghelai@csu.edu.cn http://stte.csu.edu.cn/bk/Blog.aspx?id=Huang %20Helai

Dr. Helai Huang holds B.E & M.S degrees from Tianjin University (1996-2003), a PhD degree from National University of Singapore (2003-2008), and worked as a post-doc at University of Central Florida (2008-2010). His research interests include traffic safety, transportation planning and ITS. Dr. Huang is an associate Editor of Accident Analysis and Prevention, an editorial board member of Analytic Method in Accident Research, a committee member for TRB ABJ80 Committee (Statistical Methods). Dr. Huang has authored over 120 peer-reviewed publications including over 60 SCI/SSCI-indexed journal articles. In the past 5 years, Dr. Huang has worked as the PI for three NSFC projects, and over 30 projects funded by MOT, MOE, and local governments and agencies of China.

Dr. Jiangang Jin



Title: Associate Professor Affiliation: Shanghai Jiao Tong University Address: 800 Dongchuan Rd., Mulan Building A831, Shanghai 200240 Phone: 15821519920 Fax: E-mail: jinjg05@gmail.com URL:

Dr. Jiangang Jin is an Associate Professor of the School of Naval Architecture, Ocean & Civil Engineering at Shanghai Jiao Tong University. He received the Bachelor's degree in civil engineering from Tsinghua University, and the Ph.D. degree in civil and environmental engineering from the National University of Singapore. His research interests lies in the application of large scale modeling and optimization to transportation and logistics systems, such as container port operations, public transportation system optimization. He has published referred papers in international journals, such as Transportation Science, Transportation Research Part B/C/E. He is serving as Area Editor for the journal of Computers & Industrial Engineering, and also a member in Standing Committee on Ports and Channels of Transportation Research Board.

Dr. Bijun Li



Title: Professor

Affiliation: State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS), Wuhan University Address: 129 Luoyu Road, Wuhan University, Wuhan, P.R.China. 430079 Phone: 13707113159 Fax: (027)68778043 E-mail: lee@whu.edu.cn URL: Http://www.trc.whu.edu.cn

Professor Li received his Ph.D. degree in photography and remote sensing from Wuhan University in 2008. He has been a staff of Transportation Research Centre in Wuhan University since 2004. And since 2009, he has been the professor at Wuhan University. From 2012 to 2015, He joined in the Modern Service Industry Leader Training at Huazhong University. His main research field is laser scanning technology and applications and ITS.

Dr. Feng Li



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Title: Professor

Affiliation: Beijing University of Aeronautics and Astronautics University Address: No.37 Xueyuan Road, Haidian District, Beijing 100191, China Phone: +8613811131118 E-mail: lifeng98@buaa.edu.cn

Dr. Feng Li is a Professor in the School of Transporation Science and Engineering at Beihang University. He has research interests in asphalt pavement maintenance technology. Dr. Li has received three project fundings from National Science Foundation of China (NSFC) and published one academic book in Chinese within the domain of asphalt pavement crack filling and sealing materials. Dr. Li has been responsible for develop China's specifications for crack filling and sealing materials since 2006, and four specifications were released by Ministry of Transport of China in 2015. Dr. Li serves as a member for TRB Committee AHD25 and ASTM Committee D04.33.

Dr. Hui Li



Title: Professor Affiliation: Tongji University Address: 4800 Cao'an Highway Phone: 13601789941 Fax: 021-39968382 E-mail: hli@tongji.edu.cn URL: www.gowisdom.org

Dr. Hui Li is Professor in the College of Transportation Engineering at Tongji University, Shanghai, China with support from "China 1000s Talent Program". Dr. Li is a registered Professional Engineer in the State of California. He completed his Ph.D. in Civil and Environmental Engineering at University of California Davis. He holds a B.S. in Civil Engineering and a M.S. in Highway and Railway Engineering from the Southeast University, Nanjing, China. Dr. Li also holds a M.S. in Environmental and Resource Economics from University of California, Davis. Dr. Li's research interests include sustainable and resilient transportation infrastructure, sustainable development in built environment, environmental impact assessment, life cycle assessment, and numerical modeling and simulation. Dr. Li has authored or co-authored more than 50 publications. Dr. Li is member in TRB Committee of Environmental Analysis in

Transportation (ADC10).

Dr. Honglong Li



Title: Rail Station Access Improvement Program Manager Affiliation: Department of Transportation Services, City and County of Honolulu, Hawaii, USA Address: 3rd Floor, DTS, 650 South King Street, Honolulu, Hawaii, 96817, USA Phone: +1-808-768-5472 Fax: +1-808-768-4730 E-mail: honglongli@gmail.com

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

Dr. Keping Li



Title: Professor Dr.-Ing. Affiliation: Department of Traffic Information and Traffic Control, Tongji University Address: 4800 Cao An Road, Shanghai, 201804 Phone: (0086 21) 33626318 Fax: (0086 21) 33626076 E-mail: keping_li@vip.163.com

Professor Dr.-Ing. Keping LI, was born in October 1960, got Bachelor (1984) and Master (1987) in the faculty of electrical engineering of Tongji University and PhD (1996) in the institute of traffic planning and engineering of Technique University Darmstadt/Germany. After 14 year's study, research and praxis he came back from Germany to Tongji University in 2003. Now he is the professor and doctor supervisor in the School of Transportation Engineering, Director of Sino- German Center for

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Transportation Research and Director of Tongji -Siemens CKI Office, Tongji University. He works mainly in the field of traffic analysis based on macroscopic and microscopic simulation models; planning, designing and signal control for intersections in the city traffic network. He undertakes a series of national research projects from NSFC, MOE and MOST, cooperates continued with many professors in German universities and educates jointly the PhD students and Master students.

Dr. Linbo Li

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Title: Associate Professor Affiliation: Tongji University Address: 4800 Cao'an Road, Jiading District Phone: +86-(0)21-69583007 Fax: +86-(0)21-69583712 E-mail: llinbo@tongji.edu.cn URL: http://wubing.tongji.edu.cn/data/list/llb

Dr. Li, associate professor, whose main research areas are Traffic planning, traffic congestion management, behavior operation and logistics engineering, has engaged in teaching and research work at Tongji University since 2007. He has mainly undertaken the National Natural Science Youth Fund project, the National Natural Science Foundation project, the 863 projects, and some government advisory projects. Meanwhile, he has published 3 monographs and more than 90 papers.

Dr. Pingfan Li



Title: Associate Researcher Affiliation: Traffic Management Research Institute of the Public Security Ministry (TMRI) Address: No. 88 Qianrong Road Binhu District, Wuxi, Jiangsu Province, 214151 Phone: (86)0510-85505258, (86)13656190537 Fax: (86)0510-85511909 E-mail: zhaoxiaohua@bjut.edu.cn xiaohuazhao618@gmail.com

Dr. Pingfan Li, Associate researcher, is currently the deputy director of the Road traffic accident identification research center of TMRI, and in adjunct to the director of the Traffic Accident Identification and Analysis Research Team of National Engineering Laboratory for Road Transportation Integrated Optimization and Safety Analysis Technologies. He mainly engages in road

traffic crash identification and severe road traffic crash investigation work. He participates in the writing the standards: "Investigation on Trace and Physical Evidence of Road Traffic Accident GA41-2014", "Specifications for Construction of Police Road Traffic Accident Identification Institution GA/T1272-2015", "Identification for the Speed of Vehicle Involved in Road Traffic Accident-GBT33195-2016", "The Filing Document of Road Traffic Accident-GA40". In recent years, he attended the survey works of 19 serious traffic crashes in recent years such as the "Gansu Hezuo 03.03.2014 Crash", "Tibet Lhasa Nylam County 08.09.2014 Crash", "Shanxi Xianyang Zhunhua 2015.05.15 Crash". He has rich practice experience in crash inspection, examination and appraisal, reconstruction and analysis.

Dr. Pengfei (Taylor) Li



Title: Assistant Professor Affiliation: Department of Civil and Environmental Engineering, Mississippi State University, Mississippi State, MS E-mail: pengfei.li@cee.msstate.edu

Dr. Pengfei (Taylor) Li received his Ph.D. degree in Civil Engineering from Virginia Polytechnic Institute & State University (Virginia Tech) in 2009. He is an assistant professor at Mississippi State University at present. Dr. Li's research interests in the domain of traffic signal operations include fundamental modeling and optimization for large-scale traffic signal control strategies and advanced traffic signal control strategy development and prototyping. He has published 16 theoretical and practical journal articles in this area and has been invited to present his research findings in various prestigious conferences.

Dr. Zhibin Li



Title: Researcher Affiliation: Southeast University Address: 2 Si Pai Lou, Nanjing, China Phone: 13952097374 Fax: E-mail: lizhibin@seu.edu.cn URL:

Dr. Zhibin Li is currently a researcher in School of Transportation at Southeast University. He received his Ph.D. (2014) degree from the School of Transportation at the Southeast University in Nanjing, China. He From 2010 to 2011, he was a visiting scholar at the University of California, Berkeley. He worked at the

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University of Washington as a research associate from 2015 to 2016. He received China National Scholarship in 2012 and 2013, and won the Best Doctoral Dissertation Award by China Intelligent Transportation Systems Association in 2015. His research interests include intelligent transportation system, traffic control, traffic safety, traffic flow theory.

Dr. Zhichun Li



Title: Professor Affiliation: Huazhong University of Science and Technology Address: No. 1037, Luoyu Rd, Wuhan, China Phone: 027-87556490 Fax: E-mail: smzcli@gmail.com

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Dr. Li is a professor of Transport Operations and Urban Economics at the Huazhong University of Science & Technology, China. He was awarded as Distinguished Young Researcher from NSFC (2015) and Cheung Kong (Changjiang) Scholar from Ministry of Education China (2016), respectively. He obtained his PhD degree in Transport Operations from Beijing University of Aeronautics & Astronautics in 2006, respectively. Between 2006 and 2011, he worked as a Research Associate and a post-doctoral Research Fellow at the Hong Kong Polytechnic University.

Dr. Cathy Liu



Title: Assistant Professor Affiliation: University of Utah Address: 110 Central Campus Drive, Suite 2000, Salt Lake City, UT 84112 Phone: 801-587-8858 Fax: E-mail: cathy.liu@utah.edu URL: https://sites.google.com/a/uw.edu/cathyliu/

Dr. Liu is an assistant professor in the Civil & Environmental Engineering Department at the University of Utah. She has a Ph.D. in transportation engineering from the University of Washington. She serves as a member on the Transportation Research Board (TRB) Highway Capacity Quality of Service (HCQS) Committee, Managed Lane Committee and the Transit Capacity and Quality of Service Committee. She is

also serving as a board member of Utah Model Advisory Committee, and served on Salt Lake City Transportation Advisory Board (2013-2016). She is the director of Utah Traffic Lab at the University of Utah. Dr. Liu is a licensed professional engineer at the State of Utah.

Dr. Henry Liu



Title: Professor, Civil and Environmental Engineering Research Professor, University of Michigan Transportation Research Institute Director, Center for Connected and Automated Transportation University of Michigan, Ann Arbor

Dr. Henry Liu is a Professor of Civil and Environmental Engineering at the University of Michigan. He also leads the Center for Connected and Automated Transportation, which is the USDOT Region 5 University Transportation Center. Prior joining the University of Michigan, he was an Associate Professor of Civil Engineering at the University of Minnesota, Twin Cities. Dr. Liu received his Ph.D. degree in Civil and Environmental Engineering from the University of Wisconsin at Madison in 2000 and his Bachelor degree in Automotive Engineering from Tsinghua University (China) in 1993. Dr. Liu's research interests focus on traffic network monitoring, modeling, and control, including traffic flow modeling and simulation, traffic signal operations, network traffic assignment, and mobility and safety applications with connected and automated vehicles. Dr. Liu is a managing editor of Journal of Intelligent Transportation Systems, and an associate editor of Transportation Research Part C, Network and Spatial Economics, and Transportmetrica Part B. He is also on the editorial board of Transportation Research Part B and IET Journal of Intelligent Transportation Systems.

Dr. Kai Liu



Title: Associate Professor Affiliation: Beijing Normal University Address: Xueyuannan Road 12,Haidian District Phone: 8618618360915 Fax: E-mail: liukai@bnu.edu.cn URL:

Dr. Kai Liu is an associate professor at the Beijing Normal University. Her research expertise is in risk assessment of infrastructure system, network analysis, and structural health monitoring. She obtained her PhD, which focused on structural health monitoring and train-bridge interaction,

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from KU Leuven in 2010. In 2009 she received Chinese outstanding overseas student award.

Dr. Xianfeng Liu



Title: Professor Affiliation: Southwest Jiaotong University Address: 111 Erhuan Road, Jinniu district, Chengdu Phone: 13684075960 Fax: E-mail: Xianfeng.liu@swjtu.edu.cn URL:

Dr. Xianfeng Liu, Professor of Dept. of Road and Railway Engineering in SWJTU, Member of ISSGE and CISMGE-CCES. He obtained his Ph.D degree in Ecole Centrale de Nantes, France, and then joined Priority Research Centre for Geotechnical Science and Engineering and ARC Center of Excellence in Geotechnical Science and Engineering in 2011. In 2017, he was awarded as "1000 people program-Youth expert" and appointed a Professorship by SWTJU. His research interests span from unsaturated soil mechanics (particularly expansive soils) to static and dynamic behaviour of high-speed railway embankments over reinforced grounds as well as to geoenvironmental engineering. Over the past years, Dr. Liu has published about 50 papers, including 17 papers published in flagship journals in geotechnical field: Geotechnique, Can. Geo. J., Applied clay science, Computers and Geotechnics, Acta Geotechnica, Geo. testing J., Rock Mech. and Rock Eng. In addition, he also serves as a reviewer for more than 15 reputable journals in the field of Geotechnical and Geoenvironmental Engineering.

Dr. Xianglong Liu



Title: Director Affiliation: ITS Department of CATS Address: No. 240 Huixinli, Chaoyang District, Beijing Phone: 86-0-13661177586 Fax: E-mail: liuxianglong@live.cn URL:

Dr. Liu has been in charge of the management of ITS department of CATS, and his major research area mainly focus on Advanced Public Transportation System(APTS), ITS and Urban Sustainable Transport Policy Study. As the team leader, he has drafted the Guideline on APTS of China issued by MOT, and also

drafted 11 technical specifications on APTS issued by MOT. He is currently responsible for developing on China National Transit Database (CNTD) for MOT. Dr. Liu has published more than 40 scientific papers on ITS and APTS, and published the book of "APTS Research and Practice" as the editor-in-chief in 2015.

Dr. Zhiyuan Liu



Title: Professor Affiliation: School of Transportation, Southeast University Address: Jinxianghe Road 35#, Xuanwu District, Nanjing, China Phone: 15295519667 Fax: E-mail: zhiyuanl@seu.edu.cn URL: http://tc.seu.edu.cn/2016/0624/c860a16233 7/page.htm

Zhiyuan (Terry) Liu is currently a Professor in the School of Transportation at Southeast University, Nanjing China. He is the awardee of the 1000 Talent Program (Youth Program) and the Innovation & Entrepreneurship Talent Program of Jiangsu Province. He received his PhD degree from National University of Singapore (NUS). His research interests include Transportation Network Modelling, Transportation Data Analysis, Public Transport, and Intelligent Transport Systems. In these areas, he has published more than 50 SCI/SSCI papers. He serves the editorial board of two international journals, International Journal of Transportation; Journal of Transport and Land Use. In 2015, as the team leader, he has established the Southeast University Transport Big Data and Distributed Computing Platform.

Dr. Haizhu Lu



Title: Research Engineer Affiliation: Jiangsu Expressway Engineering Maintenance Technology Center Address: No.2 Xianlin Avenue, Qixia District, Nanjing, Jiangsu Phone: 86-18851125135 Fax: 86-025-84366032 E-mail: 18851125135@163.com URL: N/A

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Dr. Lu is currently working in Jiangsu Expressway Engineering Maintenance Technology Center as a research engineer with his main responsibility in R&D of Highway maintenance technology and technology management. Dr. Lu has been awarded a PhD degree from University of Toronto, Canada and a bachelor degree from Southeast University, China. His main research interests include:

- (1) Innovative structures and material used in highway pavement;
- (2) Durability of concrete material and structures;
- (3) Quantitative measurement of material microstructures;
- (4) Application of emerging IT technology in civil engineering (*i.e. machine learning algorithm in decision making, data mining, image data processing*)

Dr. Zhe Luo



Title: Professor Affiliation: Tongji University Address: 4800 Cao'an Highway, Shanghai Phone: Fax: E-mail: zluo@uakron.edu URL:

Dr. Zhe Luo is a Professor in the Department of Urban Transit and Railway Engineering at Tongji University. Dr. Luo's primary research areas include probability and reliability based design and risk assessment. He co-authored 50 research papers, and the book entitled Principles of Soil Dynamics. Dr. Luo is a recipient of the Best Paper Award of Journal of GeoEngineering (2012), the Best Paper Award of Georisk: Assessment, Management of Risk for Engineered Systems and Geohazards (2013). He is currently serving on the editorial board of International Journal of Geotechnical Engineering and Marine Georesources & Geotechnology, and as an active reviewer for 25 international journals. Dr. Luo is a licensed Professional Engineer in USA.

Dr. Zheng Luo



Title: Transportation Engineer Affiliation: IBI Group Address: Suite 701, 17327 69 Ave., Edmonton, AB, Canada, T5T3S9 Phone: 7802985828 Fax: E-mail: zheng.luo@ibigroup.com URL: www.ibigroup.com

Dr. Zheng Luo is a transportation engineer who is currently working with IBI Group in Edmonton, Canada. He obtained his bachelor (2003) and master degrees (2007) from Southwest Jiaotong University in Chengdu, China, in the field of transportation planning and operation. Then he obtained his Ph.D. (2012) from the University of Nebraska in Lincoln, Nebraska, USA. His main research in the US focused on pedestrian/bicyclist safety evaluation at highway-rail grade crossings, as well as heavy vehicle operation safety evaluation on US Interstate highways. Dr. Zheng Luo moved to Canada in 2013 and spent the past 4 years working with consulting companies in Alberta, Canada. His main projects covered the fields of traffic impact study, parking study, LRT functional planning and simulation, municipal transportation master plan preparation, regional traffic demand forecasting and roadway geometric design.

Dr. Hong K. Lo



Title: Head and Chair Professor Affiliation: Hong Kong University of Science and Technology Address: Department of Civil and Environmental Engineering, Clear Water Bay, Hong Kong Phone: (852) 2358-8389 Fax: (852) 2358-1534 E-mail: cehklo@ust.hk URL: http://ihome.ust.hk/~cehklo

Professor Hong K. LO is Head and Chair Professor of Civil and Environmental Engineering of the Hong Kong University of Science and Technology. His expertise includes transportation system modeling, traffic control, network reliability, and public transportation. He serves as Convener of the International Scientific Committee of Conference for Advanced Systems for Public Transportation (CASPT), Founding Editor-in-Chief of Transportmetrica B: Transport Dynamics, Managing Editor of the Journal of Intelligent Transportation Systems, and on the editorial board of Transportation Research Part B, International Journal of Sustainable Transportation, etc. Prof Lo is a Fellow of The Hong Kong Institution of Engineers and Chartered Institute of Logistics and Transport in Hong Kong. He was awarded the prestigious 2001 World Conference on Transportation Research (WCTR) Prize.

Dr. Jiancheng Long



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Title: Professor

Affiliation: Hefei University of Technology Address: School of Automotive and Transportation Engineering, Hefei University of Technology, Hefei 230009, China Phone: 15656076762 Fax: 0551-63831101 E-mail: jianchenglong@hfut.edu.cn URL:

Prof. Jiancheng Long is currently a full professor of School of Automation and Transportation Engineering, Hefei University of Technology. He received his Bachelor degree in Transportation Engineering, and Ph. D in Transportation Planning and Management from Beijing Jiaotong University. His interests of research include dynamic traffic assignment, modeling and simulation of urban traffic jam, and optimization of urban traffic organization and management. Prof. Long has taken part in 10 national level research projects as principal investigator or main participant, and has published dozens of academic papers in international or local journals, including Operations Research, Transportation Research Part B, Transportation Research Part D, IEEE Transactions on Intelligent Transportation Systems, European Journal of Operational Research, Transportmetrica A, Networks and Spatial Economics, etc. His doctoral thesis was appraised as a nomination of the National Excellent Doctoral Dissertation of China in 2012. Prof. Long was awarded New Century Excellent Talents in University of the Ministry of Education in 2013, and was selected as Excellent Young Scholars of NSFC in 2015.

Dr. Sang Luo



Title: Associate Professor Affiliation: Southeast University Address: No.2 Sipailou, Nanjing, China 210096 Phone: +86-13301586366 Fax: +86-25-8379-2869 E-mail: luosang@seu.edu.cn URL:

Sang Luo, Ph.D., associate professor, visiting researcher of University of California at Berkeley and Davis, visiting scholar of University of South Florida, Second Class Prize of the State Scientific and Technological Progress Award winner, selected "Qing Lan Project" of Jiangsu Province, mainly engaged in the research of permeable pavement, grouted pavement, snow melting pavement and other new

road materials. Sang is hosting the National Natural Science Fund Project, Doctoral Fund Project of the Ministry of Education, presiding over one Standard of the Ministry of Transportation, and was authorized four national invention patents, 2 U.S. patents and published more than 50 papers, including 25 articles indexed by SCI / EI.

Dr. Nengchao Lyu



Title: Associate Professor Affiliation: Intelligent Transportation Systems Research Center, Wuhan University of Technology Address: 125 Mailbox, 1178 Heping Avenue, Wuhan, Hubei, China Phone: 86-13419546709 Fax: 86-27-86582280 E-mail: lnc@whut.edu.cn URL: its.whut.edu.cn

Dr. Nengchao LYU is an associate professor of Intelligent Transportation Systems Research Center, Wuhan University of Technology. He visited University of Wisconsin-Madison for a year in 2008; he received Ph.D in transportation engineering in 2010. Over the past five years, Dr. Lyu has lead two national natural science funds, a national science and technology support program sub program, a Ministry of Communications project, and over ten highway safety evaluation projects. His research fields are vehicle information, traffic safety operation management and traffic safety optimization design. In recent years, he carried out sets of simulated driving experiments and Field Operational Test around road traffic safety, from the perspective of driver's characteristics and the interaction between drivers and roads, focuses on road factors on driving workload. He has published more than 60 papers. He won the first prize of technological invention in Hubei Province, the first prize of China Intelligent Transportation Award and the second prize of Chinese Academy of Artificial Intelligence Wu Wenjun Award.

Dr. Jianming Ma



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Title: CAV Coordinator Affiliation: The Texas Department of Transportation Address: 9500 N. Lake Creek Pkwy, Austin, TX 78750, USA Phone: +1 512-923-6456 E-mail: Jianming.Ma@txdot.gov

Jianming Ma holds a Ph.D. degree in Civil Engineering from the University of Texas at Austin. Dr. Ma coordinates connected and automated vehicle activities at the Texas Department of Transportation (TxDOT), whether demonstration, pilot projects, national studies and university research. Dr. Ma has over twenty years of professional and research experience in connected and automated vehicle (CAV). econometric modeling, human factors, intelligent transportation systems (ITS), systems engineering, traffic engineering, and traffic safety. He has over 40 technical papers and reports published in the above-mentioned areas. Dr. Ma co-chairs the American Society of Civil Engineers (ASCE) CAV Impacts Committee. He is the Research Coordinator for the Transportation Research Board (TRB) Committee on Safety Data, Analysis and Evaluation (ANB20), a member of TRB's Traffic Signal Systems (AHB25) and a liaison for SAE DSRC Technical Committee. He also sits on TRB Active Traffic Management Joint Subcommittee (AHB20-5). Dr. Ma has been invited to serve on numerous research panels such as TxDOT, the National Cooperative Highway Research Program (NCHRP), the Strategic Highway Research Program 2 (SHRP2), the American Association of State Highway and Transportation Officials (AASHTO) CAV Working Group, Vehicle to Infrastructure (V2I) Deployment Coalition, and the CV Pooled Fund Study (CV PFS). Dr. Ma served as Associate Editor for the 15th International IEEE Conference on Intelligent Transportation Systems. Dr. Ma serves as Edit-in-Chief for the International Journal of Vehicular Telematics and Infotainment Systems (IIVTIS).

Dr. Tao Ma



Title: Professor Affiliation: Southeast University Address: 2 Sipailou, Nanjing, China Phone: +8625-83790551 Fax: +8625-83795184 E-mail: matao@seu.edu.cn URL: http://tc.seu.edu.cn/2016/0212/c860a14516 4/page.htm

Dr. Tao Ma has international education and research background across the China and US with an internationally recognized track record of publications and impacts. He has taught a number of courses for undergraduate and graduate students. One of his courses is awarded as National Excellent Course and National Excellent Sharing Course. His current researches focus on materials, structure and maintenance of pavements. He has been a principal investigator in a number of China national research projects (re: projects funded by NSFC, National Key Technology R&D Program, etc.) and province research projects. He has 4 books, 34 SCI-indexed academic papers, 50 applied inventive patens (23 has been awarded), and a number of academic and teaching awards.

Dr. Wanjing Ma



Title: Professor Affiliation: Department of Transportation Information and Control Engineering, Tongji University Address: 4800 Cao'an Road, Shanghai, P.R.China E-mail: mawanjing@tongji.edu.cn

Wanjing Ma is currently the Head and a Professor of the Department of Transportation Information and Control Engineering at Tongji University. He was a visiting scholar of The University of Illinois at Urbana and Champaign, The University of Arizona, and Hong Kong University of Science and Technology. His research focuses on traffic operation and control, intelligent transportation systems, and shared mobility. On these topics, he has published more than 100 articles in peer-reviewed journals. Dr. Ma was the recipient of the award of Shanghai Pujiang Scholar Program. He is an active member of professional societies such as the Transportation Research Board (TRB) and World Conference on Transport Research Society (WCTRS). He is on the editorial advisory board of Transportation Research Part C and Journal of Transport Information and Safety.

Dr. Xiaolei Ma



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Title: Associate Professor Affiliation: Beihang University Address: Xueyuan Road No. 37 Phone: 13911966016 Fax: 82339923 E-mail: xiaolei@buaa.edu.cn URL: www.trevorma.com

Dr. Ma is an associate Professor in the school of transportation science and engineering at Beihang University. He received his Ph.D. degree from University of Washington, Seattle in 2013. His research areas mainly lie in urban transit system operation and optimization, data-driven transportation network modeling and transportation data mining. To date, he has published over 60 articles in peer-reviewed journal articles and conference papers. He serves as a member of the TRB Artificial Intelligence and Advanced Computing Applications Committee, and has been appointed as the associate editor of IET Intelligent Transport Systems and PLOS ONE. He also received several awards including Young Elite Scientist Sponsorship Program by the CAST, Beijing Outstanding Youth Program and Beijing Nova Program.

Dr. Qiang Meng



Title: Professor Affiliation: Department of Civil and Environmental Engineering, National University of Singapore Address: BLKE1-07-10, Engineering Drive 2, Singapore 117576 Phone: +65 6516 5494 Fax: +65 6779 1635 E-mail: ceemq@nus.edu.sg URL: http://cee.nus.edu.sg/people/ceemq/

Dr. Qiang Meng is a Professor in the Department of Civil and Environmental Engineering at National University of Singapore (NUS) and a co-director of NUS-LTA Transportation Centre. He received his PhD from the Department of Civil and Environmental Engineering at Hong Kong University of Science and Technology in 2000. His research focuses include transportation network modeling and optimization, shipping and intermodal freight transportation network analysis, and quantitative risk assessment of transport operations. He has published more than 140 articles on the leading transportation and logistics journals, with the SCI H-index rate of 31. He is an Associate Editor of Transportation Research Part B, Journal of Transportation Engineering (ASCE) and Transportation

Research Part E. He has clinched a number of research awards and prizes, including Changjiang Chair Professor by the Ministry of Education of PR China in 2017, the Outstanding Alumni Award of the Department of Civil and Environmental Engineering at Hong Kong University of Science and Technology in 2016, Dean's Chair in Faculty of Engineering at NUS in 2015, the 13th World Conference on Transportation Research (WCTR) Society Prize for the best paper (2013), Best Paper Award for Methodological Development in the 9th EASTS (East Asia Society for Transportation Studies) International Conference (2011), Best Paper Award of AHB40 - Highway Capacity and Quality of Service Committee - in the 90th TRB Annual Meeting (2011) and Singapore MOT (Ministry of Transportation) Minister's Innovation Award 2009.

Dr. Pitu Mirchandani



Title: Professor Affiliation: Arizona State University Address: Tempe, Arizona Phone: 1-520-5911882 Fax: 1-480-9652751 E-mail: pitu@asu.edu URL:

Dr. Pitu Mirchandani [UCLA, BS/MS in Engineering; MIT, SM (Aero and Astro) ScD in Operations Research] is a Professor of Computing, Informatics, and Decision Systems Engineering at Arizona State University where he holds the AVNET Chair for Supply Chain Networks. He is also a Senior Sustainability Scientist within the Global Institute of Sustainability and the Director of Advanced Transportation and Logistics Algorithms and Systems (ATLAS) Research Center. For close to 40 years, Mirchandani has been studying problems related to traffic flows on transportation networks. Mirchandani's contributions are in: (1) Location Decision Modeling, (2) Traveler and Vehicle Routing Models, and (3) Real-time Data-Driven Decision Systems. He has authored/co-authored four books and approximately 230 articles. Mirchandani is a member of IEEE, INFORMS, IIE, TRB, and a charter member of ITS-Arizona, where he was awarded the "Member of the Year" in 2007. He is a Fellow of INFORMS and a Fellow of IEEE.

Dr. Yu (Marco) Nie



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Title: Associate Professor Affiliation: Northwestern University Address: 2145 Sheridan Road, Evanston, IL, 60208, USA Phone: 1-847-467-0502 Fax: 1-847-461-4011 E-mail: y-nie@northwestern.edu URL: http://www.mccormick.northwestern.edu/di rectory/profiles/Yu-Nie.html

Yu (Marco) Nie is an Associate Professor of Civil and Environmental Engineering at Northwestern University. He received his B. S. from Tsinghua University and Ph.D. from the University of California, Davis. Dr. Nie specializes in modeling and analysis of various transportation systems and has published over 70 articles in peer-reviewed international journals on related topics. He is a member of TRB committee on Transportation Network Modeling (ADB30). He also serves as an Associate Editor for the Journal of Transportation Science, an Area Editor for the Journal of Networks and Spatial Economics, and as a member of the Editorial Advisory Board for the Journal of Transportation Research Part B. Dr. Nie's research has been supported by National Science Foundation (NSF), Transportation Research Board, US Department of Transportation, Federal Highway Administration (FHWA), and Illinois Department of Transportation. In the past ten years he has led four NSF projects with a total budget of about \$2.1 million.

Dr. Yanfeng Ouyang



Title: George Krambles Endowed Professor Affiliation: University of Illinois at Urbana-Champaign Address: Department of Civil and Environmental Engineering 1209 Newmark Lab, 205 N. Mathews Ave., Urbana, IL 61801, USA Phone: (217) 333-9858 Fax: (217) 333-1924 E-mail: yfouyang@illinois.edu URL: http://webhost.engr.illinois.edu/~yfouyang/

Yanfeng Ouyang is George Krambles Endowed Professor, P.F. Kent Endowed Faculty Scholar of Civil and Environmental Engineering, and D.B. Willett Faculty Scholar at the University of Illinois at Urbana-Champaign (UIUC). He received his Ph.D. from the University of California at Berkeley in 2005. His

research mainly focuses on modeling transportation, logistics, and infrastructure systems, and applications to military, energy, and agricultural industries. He currently serves as a Department/Area/Associate Editor of IIE Transactions, Networks and Spatial Economics, Transportation Science, Transportation Research Part C, and Transportmetrica B. His work has been recognized by a Merit Award for Technical Study from the American Planning Association, a Walter L. Huber Research Prize from the American Society of Civil Engineers, a High Impact Project Award from the Illinois Department of Transportation, a Faculty Early Career Development (CAREER) Award from the U.S. National Science Foundation, a Campus Distinguished Promotion Award from UIUC, an Outstanding Adviser Award from UIUC, and a Xerox Award for Faculty Research from UIUC, among others.

Dr. Markos Papageorgiou



Title: Professor Affiliation: Technical University of Crete Address: 73100 Chania, Greece Phone: +30-28210-37240 Fax: +30-28210-37584 E-mail: markos@dssl.tuc.gr URL: http://www.dssl.tuc.gr/en/members/papageorgi ou_cv.htm

Markos Papageorgiou received the Diplom-Ingenieur and Doktor-Ingenieur degrees in Electrical Engineering from the Technical University of Munich, Germany. From 1988 to 1994 he was a Professor at the Technical University of Munich. Since 1994 he has been a Professor at the Technical University of Crete, Greece. He was a Visiting Professor at the Politecnico di Milano, Italy; Ecole Nationale des Ponts et Chaussées, France; MIT, U.S.A.; University of California at Berkeley, U.S.A.; and other universities. He was the Editor-in-Chief of Transportation Research – Part C (2005-2012). He is a Fellow of IEEE and a Fellow of IFAC. He received several distinctions and awards for his achievements. He was awarded an ERC Advanced Investigator Grant (2013-2018).

Dr. Abdul Rawoof Pinjari



Title: Associate Professor Affiliation: Department of Civil and Environmental Engineering, University of South Florida Address: 4202 East Fowler Ave, ENB 118 Tampa, Florida, USA Phone: 813-974-9671 Fax: 813-974-2957 E-mail: apinjari@usf.edu URL: http://abdulpinjari.weebly.com/index.html

Dr. Abdul Pinjari is an associate professor in the Department of Civil and Environmental Engineering at the University of South Florida. He has been on the faculty there since 2008 after earning his doctoral degree from the University of Texas at Austin.

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His research interests include:

Transportation Planning and Travel Demand Forecasting: Multimodal transportation planning and modeling; Activity-based and micro-simulation approaches to urban travel demand forecasting; Long-distance/Inter-regional travel analysis

Choice Modeling, Applied Econometric Analysis: Discrete choice models; Discrete-continuous systems; Multidimensional choice systems; Kuhn-Tucker Demand Systems; Copula models; Duration models; Statistical analysis and mining of large datasets

Freight Movement Analysis and Modeling: Use of GPS data for freight modeling and planning; Statewide freight travel models; Metropolitan goods movement and commercial vehicle movement; Megaregional freight flow analysis; Economic impacts of freight and logisitics investments.

Land-use and Transportation Interactions: Urban form and travel behavior; Residential self-selection effects, Integrated land-use and travel demand models

Sustainable Transport, Energy and Environment: Travel behavior analysis for sustainable transport planning and policy formulation; Residential and transport-related energy consumption and greenhouse gas emissions; Human exposures to traffic pollutants and related inequities; Household vehicle ownership and usage; Bicycle and pedestrian travel; Elderly mobility issues Consumer perception, market penetration, and activity/travel behavior impacts of autonomous vehicles/driver-less cars.

Transportation Surveys and Data Collection: Activity-travel surveys and methods; Stated preference studies; Data fusion

Transportation Safety: Traffic crash exposure, occurrence, and occupant injury severity

Dr. John Polak



Title: Professor and Director, Urban Systems Lab Affiliation: Imperial College London Address: Skempton Building, London SW7 2AZ Phone: 020-7594-6100 Fax: 020-7594-6102 E-mail: j.polak@imperial.ac.uk
John Polak is Professor of Transport Demand and Director of the Urban Systems Laboratory, Imperial College London and a Director of the ESRC London Interdisciplinary Doctoral Training Partnership. He is also an Honorary Professor of Intelligent Transport Systems at South East University in Nanjing, China. Prior to establishing the Urban Systems Laboratory in 2016, he was Director of the Centre for Transport Studies and Director of Research in the Department of Civil and Environmental Engineering at Imperial. Professor Polak has published extensively on a number of aspects of travel demand modelling, network performance estimation, network control and traffic management and intelligent transport systems. He serves as a member of the Mayor of London's Smart London Board, and on the UK Department for Transport's Strategic Roads Reform Expert Group.

Dr. Sean Qian



Title: Assistant Professor Affiliation: Carnegie Mellon University Address: Department of Civil and Environmental Engineering 5000 Forbes Ave. Pittsburgh, PA 15213 Phone: (412) 268-7202 E-mail: seanqian@cmu.edu URL: faculty.ce.cmu.edu/qian

Zhen (Sean) Qian is an Assistant Professor jointly appointed in the Department of Civil and Environmental Engineering and Heinz College at CMU. He directs the Mobility Data Analytics Center (MAC). Qian's research lies in the integration and optimization of civil infrastructure systems. The primary focus of his research is to manage aging and overcrowded transportation infrastructure systems, and to build sustainable and resilient infrastructure networks. He is particularly interested in large-scale dynamic network modeling for multi-modal transportation systems, in development of intelligent transportation systems (ITS) and in urban system interdependency modeling. He was mostly an Assistant Research Professor at Heinz College from 2013 to 2015, a postdoctoral researcher in the Department of Civil and Environmental Engineering at Stanford University from 2011 to 2013, and received his Ph.D. degree in Civil Engineering at the University of California, Davis.

Dr. Tony Z. Qiu



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Title: Associate Professor Affiliation: Department of Civil and Environmental Engineering, University of Alberta Address: Donadeo ICE 6-271, Edmonton, AB, Canada Phone: (780)492-1906 Fax: (780) 492-0249 E-mail: zhijunqiu@ualberta.ca URL: http://transportation.ualberta.ca

Dr. Zhang received his Ph.D. degree in Civil Engineering in 2000 from Virginia Tech, Blacksburg. He is an associate professor in the Department of Civil and Environmental Engineering at Mississippi State University. Dr. Zhang's current research focuses on traffic control, connected vehicle, traffic simulation, intelligent transportation systems and advanced computing. He has served as the PI/Co-PI of many externally funded projects and the total funding is more than \$20 million. Dr. Xie currently is a member of the TRB Emergency Evacuation Committee. Dr. Zhang are presidents of two small business companies that has receive multiple million-dollar research funding from US DOT. One of his company has created open source microscopic traffic simulation software ETFOMM (etfomm.org).

Dr. Xiaobo Qu



Title: Associate Professor Affiliation: University of Technology Sydney Address: Broadway, Sydney, 2007 NSW Australia Phone: +61403884204 Fax: +61295142621 E-mail: xiaobo.qu@uts.edu.au URL: https://www.uts.edu.au/staff/xiaobo.qu

Dr Xiaobo Qu is currently a Senior Lecturer with the School of Civil and Environmental Engineering, University of Technology Sydney (UTS). Prior to his UTS appointment, he was a Senior Lecturer (Transport Engineering) in Griffith School of Engineering, Griffith University. Dr Qu obtained his PhD, Master's degree, Bachelor's degree from the National University of Singapore, Tsinghua University, and Jilin University, respectively. Dr Qu's research is focused on practically improving transport safety, efficiency, equity, and sustainability through traffic flow and network modelling and optimisation. He has authored or co-authored over 50 journal articles published by leading international peer reviewed

transportation journals such as Transportation Research Part A, Part B, Part C, Part E, Accident Analysis and Prevention.

Dr. Essam Radwan



Title: CATSS Director Affiliation: UCF Address: 4000 Central Florida Blvd. Phone: 407-823-4738 Fax: E-mail: essam.radwan@ucf.edu URL: http://www.cece.ucf.edu/people/radwan/index .html

Essam Radwan is the Director of the Center for Advanced Transportation Systems Simulation (CATSS) at UCF. He received a BS degree in Civil Engineering with honors from Cairo University, Egypt and MS and Ph.D. Degrees from Purdue University. He taught at Virginia Tech and Arizona State University and joined UCF as a department chair in 1990. Professor Radwan's research interest is traffic characteristics and traffic signal control of freeway and street intersections. He directed and co-directed close to 80 research projects totaling over \$13 million in external funded research projects. Through research and graduate advising he published more than two hundred and fifty (250) technical. Professor Radwan graduated twenty (20) Ph.D. students, thirty-three (33) master degree students. He received numerous awards including the ASCE's "Frank Master" and "Wilbur Smith" awards.

Dr. Bin Ran



Title: Professor Vilas Distinguished Achievement Professor Director of Wisconsin ITS Program Director of Connected Automated Transportation Program Department of Civil & Environmental Engineering University of Wisconsin at Madison 1415 Engineering Drive, Madison, WI 53706, USA (P) 608-262-0052 (F) 608-262-5199 bran@wisc.edu https://directory.engr.wisc.edu/cee/Faculty/Ra n_Bin/



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Dr. Bin Ran holds the title of National Distinguished Expert in China and is the Director for the Institute of Internet of Mobility at the Southeast University, China. Dr. Ran is also a Professor and Director of ITS Program at the University of Wisconsin at Madison. He also served as the Director of the Traffic Operations and Safety Lab (TOPS) at the University of Wisconsin at Madison. Dr. Ran is an expert in dynamic transportation network models, traffic simulation and control, traffic information system, Internet of Mobility, and Connected Automated Vehicle Highway. He has led the development and deployment of various traffic information systems and technologies in the US and China. He has trained younger generations of professors and experts in traffic engineering and Intelligent Transportation Systems (ITS) in the US, China, Korea, and other countries.

Dr. Lawrence Rillet



Title: *Keith W. Klaasmeyer Chair in Engineering and Technology, and Director, Nebraska Transportation Center* Affiliation: *University of Nebraska – Lincoln* Address: 262D Whittier Research Center P.O. Box 830851 Lincoln, NE 68583-0851 Phone: *402 – 472-1992* Fax: *402-472-0859* E-mail: *lrilett2@unl.edu*

Dr. Laurence R. Rilett is a Distinguished Professor of Civil Engineering and the inaugural holder of the Keith W. Klaasmeyer Chair in Engineering and Technology at the University of Nebraska-Lincoln. He also serves as the Director of the UNL Mid-America Transportation Center, which is the U.S. Department of Transportation Region VII University Transportation Center, and the Director of the Nebraska Transportation Center. Dr. Rilett's field of research is in the transportation System analysis area and his specific research may be divided into two main areas: Intelligent Transportation Systems applications and large-scale transportation system modeling. Dr. Rilett is an Associate Editor of the ASCE Journal of Transportation Engineering and on the editorial board of the Journal of Intelligent Transportation Systems.

Mr. Al R. Roshdieh



Title: Director Affiliation: Department of Transportation Address: 101 Monroe St. Rockville, MD 20850 Phone: (240) 777-7175 Fax: (240) 777-7179 E-mail: al.roshdieh@montgomerycountymd.gov URL: http://www.montgomerycountymd.gov/dot/i ndex.html

With more than 30 years of executive experience, Montgomery County Department of Transportation Director Al R. Roshdieh has developed and implemented a wide range of transportation and public works policies and projects. He is a proven leader, spearheading initiatives for Bus Rapid Transit, Pedestrian Safety, Capitol Bikeshare, implementation of adaptive traffic signals and launch of Ride On extRa -- a limited stop transit service. Mr. Roshdieh has enhanced the County's economic development and increased its tax base by successfully negotiating numerous public/private partnerships and mixed-use developments. Mr. Roshdieh has an engineering degree from the University of Maryland and has received numerous U.S. patents for his inventions in the fields of electronic controls and energy conservation.

Dr. Chang Shen



Title: Senior Customer Service Manager Affiliation: PTV China Address: No. 1 Plaza 19J, East Nanjing Rd. No. 800, Shanghai. Phone: 021-63288290 Fax: 021-63288236 E-mail: chang.shen@ptvchina.cn URL: www.ptvgroup.com

Chang Shen is the senior customer service manager from PTV Traffic Technology Co., Ltd, and also qualified with global certified software trainer. Chang graduated from Tongji University in 1998, and acquired her Master's Dipl.-Ing of Civil Engineering from KIT in Germany in 2003. Chang used to work

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in Tongji Urban Planning and Design Institute.

Chang started to work as a product manager for PTV China since 2006 and later as a senior customer service manager till now. Chang has been in charge of providing customers with VISSIM、VISUM、VISTRO training service together with transportation advisory service including public modelling and traffic modelling.

Dr. Xuan Song



Title: Project Associate Professor Affiliation: The University of Tokyo Address: Room 460, General Research Building, The University of Tokyo, 5-1-5, Kshiwanoha, Kashiwa, Chiba, 〒277-8568 Phone: +81-080-3496-1516 Fax: +81- 04-7136-4292 E-mail: songxuan@csis.u-tokyo.ac.jp URL: http://shiba.iis.u-tokyo.ac.jp/song/

Xuan Song received the Ph.D. degree from Peking University, China, in 2010. He is currently the Project Associate Professor in the Center for Spatial Information Science, The University of Tokyo. In the past five years, he led and participated in many important projects as principal investigator or primary actor in Japan, such as DIAS/GRENE Grant of MEXT, Japan; Japan/US Big Data and Disaster Project of JST, Japan; Research Grant of MEXT, Japan; Research Grant of MEXT, Japan; Research Grant of MEXT, Japan; Research Grant of MLIT, Japan. He served as associate editor, program committee member or reviewer for many famous journals and top-tier conferences, such as ACM TIST, IEEE TKDE, Big Data Journal, UbiComp, ICCV, CVPR, ICRA and etc. His main research interest are AI and its related research areas, especially on intelligent surveillance/reasoning system design, mobility and spatio-temporal data mining, and urban informatics. By now, he has published more than 40 technical publications in journals, book chapter, and international conference proceedings, including more than 30 high-impact papers in top-tier publications for computer science, such as ACM TOIS, ACM TIST, IEEE TPAMI, IEEE Intelligent System, KDD, UbiComp, IJCAI, AAAI, ICCV, CVPR, ECCV, ICRA and etc. His research was featured in many Japanese and international media, including United Nations, Discovery Channel, and Fast Company Magazine. He received Honorable Mention Award in UbiComp 2015.

Dr. Daniel Jian Sun



Title: Professor and Deputy Chair Affiliation: Shanghai Jiao Tong University Address: No. 800 Dongchuan Road Phone: 021-34206674/13918769316 Fax: 021-34206197 E-mail: danielsun@sjtu.edu.cn URL: http://naoce.sjtu.edu.cn/jsmlgjhy/1218.html

Dr. Daniel Jian Sun is a professor and deputy chair of Department of Transportation and Shipping Logistics, Shanghai Jiao Tong University. He obtained his Ph.d in Transportation Research Center, University of Florida in 2009. His main research interests include Internet of Vehicles and urban traffic control, urban driver behavior and simulation, urban transportation environment. He has published more than 40 SCI/SSCI indexed journal papers since 2010, and has 19 papers accepted and presented in TRB annual meeting. He has been served in editorial committee board of several journals, including Journal of International Transportation (since 2012), Journal of Traffic and Transportation Engineering (English Version) (since 2014), and the chief member of road and traffic engineering sub-committee, Shanghai Society of Civil Engineering (since 2012). Moreover, he has been an Expert Reviewer for the Transportation Science & Technology Project, Ministry of Transport, China, and the National Science & Technology Award since 2014.

Dr. Xiaoqian Sun



Associate Professor School of Electronic and Information Engineering Beihang University XueYuan Road No. 37, HaiDian District Beijing, 100191, China + 86 183 1005 7769 sunxq@buaa.edu.cn

Dr. Xiaoqian Sun is an Associate Professor with the School of Electronic and Information Engineering at Beihang University since April 2015. She obtained her Ph.D. in Aerospace Engineering from German Aerospace Center/Technical University of Hamburg in 2012. Dr. Sun has around 20 publications in Transportation Research Part E, IEEE Transactions on Intelligent Transportation Systems, Transportmetrica A/B, and Journal of Aircraft. She also won three best paper awards from the ICRAT 2014 and CICTP 2016. Her research interests mainly include air transportation networks, multimodal transportation, and resilience of complex networks.

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Dr. Yilin Sun



Title: Lecturer Affiliation: Zhejiang University Address: 866 Yuhangtang Road, Hangzhou, 310058, China Phone: +86-13018903377 Fax: +86-571-88208786 E-mail: yilinsun@zju.edu.cn URL: http://tcrl.zju.edu.cn/news.asp?id=2011-11-30-13-45-30

Dr. Yilin Sun is a lecturer at Zhejiang University. Her main research interest lies in the intersection between transport and urban planning, transport policy, travel behavior analysis, ICT and travel survey. She received her doctoral degree from the Department of Urban Management, Kyoto University, Japan. She has been/is a principal investigator and co-investigator in various projects, including the National Natural Science Foundation of China, Zhejiang Province Public Welfare Science and Technology Project, Zhejiang Province Intelligent Transportation Technology Innovation Team Subproject, Central University Youth Innovation Special, China Postdoctoral and Zhejiang Postdoctoral Science Fund and other projects. She won the Japan Lighting Society Award. She published more than 30 journal and conference articles and 2 book chapters.

Dr. Zhanbo Sun

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Title: Professor Affiliation: Southwest Jiaotong University Address: 111 North 2nd Ring Road, Chengdu China 610031 Phone: (+86)28 87634876 Fax: (+86)28 87634876 E-mail: zhanbo.sun@home.swjtu.edu.cn URL:

Dr. Zhanbo Sun is a professor at the School of Transportation and Logistics, Southwest Jiaotong University, Chengdu, China. He received his Bachelor degree in 2009 from Tsinghua University, China, and Ph.D. in 2014 from Rensselaer Polytechnic Institute in the US. Prior to joining Southwest Jiaotong

University, he was an assistant professor at Western Michigan University. He is the author of over 30 scientific articles. Dr. Sun's current research interests include Connected and Automated Vehicles, traffic emissions and dispersion modeling, and transportation privacy.

Dr. WY Szeto



Title: Associate Professor; Deputy Director of Institute of Transport Studies Affiliation: The University of Hong Kong Address: Rm 618, Haking Wong Building, Department of Civil Engineering, The University of Hong Kong, Pokfulam, Hong Kong Phone: +852 28578552 Fax: +852 25595337 E-mail: ceszeto@hku.hk URL: http://web.hku.hk/~ceszeto/ http://hub.hku.hk/cris/rp/rp01377;jsessionid =1E14CD1F2F9986ED77DCC41F9453962A

Dr Szeto is also a Top 1 % Scholars 2015 and 2016 (according to ISI's Essential Science Indicators). His current h-index is 32 (Google scholars). He is an author of more than 100 refereed journal papers. His publications have been cited over 3280 times (Google scholars). He received the World Conference on Transport Research Prize in 2001 and the Eastern Asia Society for Transportation Studies Outstanding Paper Award in 2003. Currently, he is an Editor of Transportmetrica B, an Area Editor of Networks and Spatial Economics, an Associate Editor of Journal of Intelligent Transportation Systems, and an Editorial Board Member of Transportation Research Part B, Transportation Research Part C, and International Journal of Sustainable Transportation.

Dr. Jinjun Tang



CICTP2017

Title: Associate Professor Affiliation: School of Traffic & Transportation Engineering, Central South University Address: Changsha, 410075, China. Phone: +8615802539623 Fax: 0451-86282116 E-mail: jinjuntang@csu.edu.cn URL: http://stte.csu.edu.cn/bk/Blog.aspx?id=tang jinjun

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Dr. Jinjun Tang is associate professor in Central South University. He received the Ph.D. degree in traffic information engineering and control from the Harbin Institute of Technology, Harbin, China, in 2016. He received the B.S. and M.S. degree from Shandong University of Technology, Zibo, China in 2006 and 2009. He worked as visiting student at University of Washington, Seattle, WA, USA from 2014-2016. He published more than 40 technical papers in the journal and conference proceeding as first author and coauthor. His research interests include data detecting and mining in transportation system, traffic flow prediction, transportation modeling, and intelligent transportation systems.

Dr. Keshuang Tang



Title: Associate Professor Affiliation: College of Transportation Engineering, Tongji University Address: Cao'an Road No. 4800, Shanghai 201804, China Phone: 18616579619 E-mail: tang@tongji.edu.cn

Keshuang Tang is currently an Associate Professor at the College of Transportation Engineering, Tongji University. He serves as the Member of the WCTRS Scientific Committee and the Chair of Special Interest Group on Urban Transport Operations, as well as the Editor of International Journal of Intelligent Transportation Systems. He received the Ph.D. degree in traffic engineering from Nagoya University in 2008, and then worked at The University of Tokyo, Tohoku University, and University of

California, Berkeley, from 2008 to 2011. His research interests include intelligent transportation systems, driver behavior and signal control. He has published one book and 70+ peer-reviewed papers, including 20+ papers on international journals such as Transportation Research Part C and IEEE Transactions on Intelligent Transportation Systems.

Dr. Daxin Tian



Title: Associate Professor Affiliation: Beihang University Address: No.37 Xueyuan Road, Beijing, China Phone: +86 18701358028 Fax: +86 10 82316330 E-mail: dtian@buaa.edu.cn

Dr. Daxin Tian is the Assistant Dean of School of Transportation Science and Engineering, Beihang University. He has authored/co-authored about 100 journal/conference papers and book chapters. He is a senior member of IEEE, CCF and ITSC. He is serving on the editor in chief of International Journal of Vehicular Telematics and Infotainment Systems (IJVTIS), the editorial boards of Journal of Intelligent and Connected Vehicles, IEEE Access. He is a recipient of the 2015 National Scientific and Technological Progress Second Prize.

Dr. Zong Tian



Title: Professor and Director Affiliation: Department of Civil and Environmental Engineering, University of Nevada, Reno Phone: (775) 784-1232 E-mail: zongt@unr.edu URL: http://wolfweb.unr.edu/homepage/zongt/ **CICTP2017**

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

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Dr. Huizhao Tu



Title: Prof.dr. Affiliation: Tongji University Address: 4800# Cao'An Road, 201804 Jiading District, Shanghai, P.R.China Phone: +86 15901696871 Fax: +86 21 69583712 E-mail: huizhaotu@tongji.edu.cn URL:http://tjjt.tongji.edu.cn/index.php?classid=9 303&j_id=154&t=show

Prof. dr. Huizhao Tu received the B.Sc. degree in civil engineering and the M. Eng. degree in transportation engineering from Tongji University, China, the Ph.D. degree in Transport & Planning from Delft University of Technology, The Netherlands. He is currently a full associate professor with College of Transportation Engineering, at Tongji University, China. He was with Department of Transport & Planning, Delft University of Technology, The Netherlands, where he was a Researcher from 2003 to 2008. His research interests include transport risk management, connected vehicles and smart transportation, emergency traffic management, travel behavior analysis. From 2003 to 2010, he participated in several Dutch projects on reliable traffic monitoring and emergency traffic management, and from 2010 till now, he participated in several Chinese projects (e.g. two NSFC projects) in emergency driving behavior and transport risk management. He is an Associate Editor for the 16th IEEE

International Conference on Intelligent Transportation Systems (The Hague, The Netherlands, 2013) and for the 17th IEEE International Conference on Intelligent Transportation Systems (Qingdao, P.R.China, 2014). He is the chair of Joint Chinese-Dutch Seminar on Transportation Management and Travel Behaviour for Urban Emergencies: Past, Present, and Future Research June 2014.

Dr. Torgeir Vaa



Title: Senior Principle Engineer Affiliation: Norwegian Public Roads Administration Address: Abels gate 5, N-7030 Trondheim, Norway Phone: +47 92619401 Fax: E-mail: torgeir.vaa@vegvesen.no URL: http://www.vegvesen.no/

Torgeir Vaa is a Senior Principal Engineer in the Norwegian Public Roads Administration's ITS Section where he has been employed since 2009. Before this Vaa had 25 years of experience as a Senior Researcher at SINTEF Technology and Society in the Transport Engineering section where he specialized in winter maintenance. He also worked for 10 years as traffic engineer with the Municipal Authority of Trondheim. He graduated in 1973 as from Norwegian Institute of Technology (NTH) – now the Norwegian University of Technology and Science (NTNU) – Faculty of Civil and Environmental Engineering, Department of Transport Engineering.

Dr. C. Michael Walton



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

Dr. C. Michael Walton is Professor of Civil Engineering and holds the Ernest H. Cockrell Centennial Chair in Engineering at The University of Texas Austin. Dr. Walton researches intelligent transportation systems and intermodal freight logistics in addition to transportation systems

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engineering, planning, operations and policy analysis. Dr. Walton was elected a member of the National Academy of Engineering in 1993. In other professional society affairs he is a past Chair of the Board of Directors of the American Road and Transportation Builders Association (ARTBA), past President of the Board of Governors of the Transportation and Development Institute of the American Society of Civil Engineers (ASCE), a founding member and past Chair of the Board of Directors of the Intelligent Transportation Society (ITS) of America and a past Chair of the Transportation Research Board (TRB) Executive Committee. He has contributed to more than 500 publications in the areas of ITS, freight transport, and transportation engineering, planning, policy and economics, and he has delivered several hundred technical presentations.

Mr. Aobo Wang



Title: Research Assistant Affiliation: Center for Advanced Transportation Education and Research (CATER), University of Nevada, Reno Address: University of Nevada, Reno, MS258 Phone: (775) 737-6920 E-mail: aobowang@nevada.unr.edu

Aobo Wang is a research assistant and Ph.D. student at the Center for Advanced Transportation Education and Research (CATER), University of Nevada, Reno. His current research focuses on datadriven performance measures for coordinated arterial signals. He has involved with five externally funded projects related to signal timing.

Dr. Xiaokun (Cara) Wang



Title: Associate Professor, Assistant Director of VREF CoE-SUFS Department of Civil and Environmental Engineering 4032 JEC Building, Rensselaer Polytechnic Institute 110 8th Street, Troy, NY 12180-3590 USA (TEL) 518-276-2098 (EMAIL) wangx18@rpi.edu

Dr. Cara Wang's research mainly focuses on the analysis of the interactions between land use, transport (both passenger and freight), energy and environment, and the spatial dependence of travel behavior. She has published over 60 papers in peer-reviewed journals and conference proceedings. Dr. Wang is member of TRB Committee ABJ70 (Artificial Intelligence and Advanced Computing Applications), AT025 (Urban Freight Transportation), and AT015 (Freight Transportation Planning and Logistics). Dr. Wang has been PI and Co-PI of research projects sponsored by National Science Foundation (NSF), National Cooperative Highway Research Program (NCHRP), National Cooperative Freight Research Program (NCFRP), New York State Energy Research and Development Authority (NYSERDA), U.S. State Department of Transportation, among others.

Dr. Haizhong Wang



Title: Assistant Professor School of Civil & Construction Engineering Oregon State University 101 Kearney Hall Corvallis, OR 97330 Phone: 541-737-8538 Fax: 541-737-3052 Email: Haizhong.Wang@oregonstate.edu

Dr. Haizhong Wang is an Assistant Professor of Transportation Engineering within the School of Civil and Construction Engineering at Oregon State University, Corvallis, OR. Dr. Wang received M.S. and Ph.D. degrees from University of Massachusetts, Amherst in Applied Mathematics and Civil Engineering (Transportation), and B.S. and M.S. degrees from Hebei University of Technology and Beijing University of Technology, China. Dr. Wang has published over 60 journal and major conference papers. He is a member for three TRB standing committee: AHB45 Traffic Flow Theory and Characteristics, ABJ70 Artificial Intelligence and Advanced Computing Applications and ABR30: Emergency Evacuation and AHB45 (3) Subcommittee on Connected and Automated Vehicles through Traffic Flow Theory and Characteristics. He is the 2014 recipient of the Outstanding Reviewer for ASCE Journal of Transportation Engineering. Dr. Wang is the Organizing Committee Chair of CICTP2017.

Mr. J. Jason Wang



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Title: Senior Transportation Specialist Appalachian Regional Commission 1666 Connecticut Ave. Washington D.C, 20009, U.S.A. Phone: (202)-884-7725 Fax: (202)-884-7682 E-mail: jwang@arc.gov

Mr. Wang is a senior transportation advisor at the Appalachian Regional Commission (ARC). In this position, he works with the Federal Highway Administration (FHWA) of USDOT to administer the Appalachian Development Highway System (ADHS) under the US federal surface transportation legislation. He is also a program director for the Appalachian Local Access Road (LAR) program responsible for approval and implementation of the LAR projects across 13 Appalachian states.

Mr. Wang is a graduate of USDOT's Eisenhower Graduate Research Fellow program and obtained his M.S. in Transportation from Morgan State University and held B.S. of Civil Engineering from the Beijing University of Technology. He is a registered Professional Engineer in the State of Maryland and members of several TRB and/or AASHTO committees. He was a founding member and a past president of COTA and is currently leading the effort of organizing the annual COTA-World Bank China Transport Forum at CICTP.

Dr. Jianqiang Wang



Title: Professor Affiliation: Tsinghua University Address: No.1 Qinghua Yuan, Beijing, China Phone: +86 13520933903 Fax: +86 10 62795774 E-mail: wjqlws@tsinghua.edu.cn URL: http://www.dae.tsinghua.edu.cn/

Prof. Jianqiang Wang is the Assistant Dean of Department of Automotive Engineering, Tsinghua University. His active research interests include intelligent vehicles, driving assistance systems and driver behavior. He has authored/co-authored about 160 journal/conference papers and book chapters. He is serving on the editor-in-chief of Journal of Intelligent and Connected Vehicles (JICV), the associate editor of International Journal of Vehicular Telematics and Infotainment Systems (IJVTIS). Dr. Wang has engaged in over twenty sponsored projects and has received over ten awards including three National Prizes.

Dr. Kelvin C.P. Wang



Title: Chair Professor Affiliation: Oklahoma State University, Southwest Jiaotong University Address: School of Civil & Environmental Engineering, Oklahoma State University, Stillwater, OK 74074 Phone: +86 18140014890 Fax: E-mail: kcpwang@gmail.com

Kelvin C.P. Wang is professor of civil engineering at Oklahoma State University (OSU) and holds an endowed chair position. He has degrees from Jiaotong Universities, and Arizona State University. He is known for developing technologies of 3D laser imaging sensors and software solutions for pavements, rail, and tunnels, including the recent Deep-Learning development for automated distress surveys. His professional career includes four years at Arizona DOT and then 24 years as a university faculty. The ASCE 2011 Frank M. Masters Transportation Engineering Award was given to Dr. Wang for his "innovative research on automated pavement survey and data analysis technologies". Dr. Wang is the president of the Transportation and Development Institute (T&DI) of the American Society of Civil Engineers (ASCE).

Dr. Pu Wang



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Title: Professor Affiliation: Central South University Address: 22 Shaoshan South Road, Changsha Phone: 18711065966 Fax: N/A E-mail: wangpu@csu.edu.cn URL: http://stte.csu.edu.cn/bk/Blog.aspx?id=Wang Pu

Dr. Pu Wang received the B.S. degree in Physics from University of Science and Technology of China, in 2005, and the Ph.D. degree in Physics from University of Notre Dame, in 2010. From 2010/5 to 2011/12, he worked as a Postdoc researcher in the Department of Civil and Environmental Engineering in MIT. He is currently a Full Professor of the School of Traffic and Transportation Engineering in Central South University. His research interests include transportation data analysis, human dynamics and complex network. Dr. Wang has published several papers in international leading journals, such as Science, Nature Physics, Nature Communications. He has been an associate editor of IEEE Transactions on Intelligent Transportation Systems since 2016.

Dr. Wenbin Wang



Title: Senior Civil Engineer Affiliation: School of Transportation Engineering Tongji University Address: 4800 Cao'an Road,201804,Shanghai,China Phone: (86)13816852646 E-mail: wang_wenbin@tongji.edu.cn

Wenbin Wang, Senior Engineer, is currently working in Transportation Research Institute of Tongji University. He mainly engages in research and projects on safety improvement of road facilities. The projects he recently accomplished including safety improvements of several accident-prone roads in Shanghai, safety evaluation of Shanghai JiangPu Tunnel, road safety assessment and reformation proposed by Shanxi provincial government and Shijiazhuang municipal government. He participated in the compilation of Shanghai safety improvement guides for accident-prone roadway and project of highway safety evaluation of Hunan Province.

Dr. Xuesong Wang



Title: Professor Affiliation: Tongji University Address: 4800 Cao'an Road Shanghai, 201804 Phone: (86) 21-69583946, (86)15002111190 E-mail: wangxs@tongji.edu.cn Website: www.tjsafety.cn

Dr. Xuesong Wang is currently a Professor at the School of Transportation Engineering of Tongji University. Dr. Wang serves as the Executive Director of International Joint Research Lab in Transportation Safety, Associate Director for the Chinese Key Laboratory of Road and Traffic Engineering, Associate Director for the Chinese Engineering Research Center of Road Traffic Safety and Environment. His research interests are in the area of transportation safety. He has published more than 200 papers in journals and conferences. Dr. Wang is the associate editors for China Journal of Highway and Transport, China Safety Science Journal. Dr. Wang is editorial board members for Accident Analysis and Prevention, Journal of Transportation Safety and Security. Dr. Wang is the committee members for TRB Standing Committee on Safety Data, Analysis and Evaluation (ANB20), TRB Standing Committee on Simulation and Measurement of Vehicle and Operator Performance (AND30). Dr. Wang received his PhD degree from University of Central Florida in 2006. In 2015, he received Chinese National Science Foundation Excellent Young Researcher Award.

Dr. Yinhai Wang



Professor and Director Pacific Northwest Transportation Consortium (PacTrans) USDOT University Transportation Center for Federal Region 10 University of Washington Seattle, WA 98195-2700 Tel: (206) 616-2696 Fax: (206) 543-1543 PacTrans Website: http://depts.washington.edu/pactrans/ STAR Lab Website: http://www.uwstarlab.org/

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Dr. Yinhai Wang is a professor in both Civil and Environmental Engineering and Electrical and Computer Engineering at the University of Washington (UW). He is the founding director of the UW Smart Transportation Applications and Research Laboratory (STAR Lab). He also serves as director for Pacific Northwest Transportation Consortium (PacTrans), USDOT University Transportation Center for Federal Region 10. He has a Ph.D. in transportation engineering from the University of Tokyo (1998) and a master's degree in computer science from the UW. He has conducted extensive research in traffic sensing, transportation safety, transportation bigdata, traffic operations, advanced traffic control systems, and traffic simulation. He has published over 130 peer reviewed journal articles and delivered more than 140 invited talks and nearly 210 other academic presentations.

Dr. Wang serves as a member of the Artificial Intelligence and Advanced Computing Applications Committee, Transportation Information Systems and Technology Committee, and Highway Capacity and Quality of Service Committee of the Transportation Research Board (TRB). He is currently a member of the steering committee for the IEEE Smart Cities and an elected governor for the American Society of Civil Engineers (ASCE) Transportation and Development Institute (T&DI) 2016 through 2020. He will serve as president of T&DI in 2018. He was an elected member of the Board of Governors for the IEEE ITS Society from 2010 to 2013. Additionally, Dr. Wang is associate editor for three journals: Journal of ITS, Journal of Computing in Civil Engineering, and Journal of Transportation Engineering. He was the winner of the ASCE Journal of Transportation Engineering Best Paper Award for 2003.

Dr. Wang has also been active in international collaborations. He is a Changjiang Scholar for Tsinghua University and director of Transportation Data Science Research Center for Tongji University.

Dr. Heng Wei



Professor and Director ART-EngineS Transportation Research Laboratory College of Engineering & Applied Science Department of Civil & Architectural Engineering & Construction Management 792 Rhodes Hall, 2850 Campus Way The University of Cincinnati, Cincinnati, Ohio 45221-0071 Tel: 513-556-3781; Email: heng.wei@uc.edu Web: http://ceas.uc.edu/caecm/facultyandStaff/p rofiles/ heng_wei.html; https://homepages.uc.edu/~weihg/

transportation engineering, planning and sustainability, including cooperative intelligent transportation systems (C-ITS) along with smart city development. Since joining UC, he has secured a great number of research grants from ODOT, FHWA, NSF, EPA, and USDOT UTCs as well. His research has resulted in 180 peer-reviewed and referred papers, and he is an author of one book and eight book chapters. He has been awarded with many professional prizes and honors, including UC Distinguished Researcher Award for Excellence in Research in 2013 and 2015, and Engineering Master Educator Award for Excellence in Teaching in 2014, Beijing Overseas High-Caliber Talents Award in 2017, as well as best paper and presentation awards at international, national and regional levels, respectively. He has also been listed for multiple times as one of Honored Faculty/Staff Who Made a Real Difference in the Life of a UC Student. He is currently serving as the Transportation Research Board (TRB) Representative to UC and Advisor to the Institute of Transportation Engineers (ITE) Student Chapter at UC. He has served as a member of numerous outstanding professional committees, such as TRB Committee on Artificial Intelligence and Advanced Computing Applications (ABJ70), User Information Systems (AND 20), Transportation in Developing Countries (ABE90), Program Committee for the Ohio Transportation Engineering Conference (OTEC), and ASCE T&DI Committees on i) Advanced Technology and Transportation Safety, ii) Sustainability and Environment; and iii) CAV Impacts. He is the Chair of IEEE ITSS Travel Information and Traffic Management Committee and Past President of Chinese Overseas Transportation Association (COTA). In addition, he has successfully organized/chaired/co-chaired 34 international professional conferences and sessions, including IEEE ITSC, programs of TRB annual/mid-year meetings, and CICTP series. He is a member of review panels for SHRP 2 Projects, USDOT UTCs, NSF, and referees for top transportation journals (e.g., Transportation Research C, D, and Journal of ITS). He is an editor or associate editor of the Open Journal of Civil Engineering and Open Access Journal of Environment Pollution and Climate Change, and editorial board member of the Open Transportation Journal.

Dr. Jiancheng Weng



Title: Deputy Dean Affiliation: College of Metropolitan Transportation, Beijing University of Technology Address: Beijing University of Technology, No.100 Pingleyuan Chaoyang District, Beijing, China Phone: (86)10-67390918 Fax: (86)10-67392082 E-mail: youthweng@bjut.edu.cn URL: http://yanzhao.bjut.edu.cn/ds/10/2015628/1 435489824964_1.html

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Dr. Jiancheng Weng has been an associate professor in the College of Metropolitan Transportation of Beijing University of Technology since 2007. His research areas include intelligent transportation systems (ITS), traffic information systems and technology, and traffic data process and fusion. He has been in charge of more than 30 projects include supported by the National Natural Science Foundation of China (NSFC), the major Special Program of National Science and the Ministry of Industry and Information Technology, and projects on the topics of Intelligent Transportation System (ITS), traffic information and big data, sponsored by various Commissions of the Beijing government. Dr.Weng has published two books, and over 43 journal articles, referred and conference paper. 29 of them were included in SCI & EI Indexes. He received seven prizes of science and technology award respectively granted by the Beijing municipal government, the Chinese highway society science and Technology, and ITS China.

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Dr. Jinxian Weng



Title: Professor Affiliation: Shanghai Maritime University Address: 1550 Haigang Ave, Shanghai, China 201306 Phone: 021-38282316 Fax: 021-38282316 E-mail: jxweng@shmtu.edu.cn

Dr. Weng is currently a Professor with Shanghai Maritime University. His research interests include work zone operations, roadway & maritime traffic safety modeling, traffic simulation and driver behavioral analysis. He was supported by the Shanghai Shuguang Talent Program, Shanghai Youth Talent Program, and Youth Science & Technology Excellence Program sponsored by Ministry of Transport. Dr. Weng is currently an Associate Editor of Journal of Transportation Safety and Security and an Advisory Board Member of International Journal of Transportation.

Dr. Chaozhong Wu



Title: Director Affiliation: Intelligent Transportation Systems Research Center, Wuhan University of Technology Address: Phone: +86-13349878361 Fax: +86-27-865859905 E-mail: wucz@whut.edu.cn URL: itsc.whut.edu.cn

Dr. Chaozhong WU is a Professor at Intelligent Transport Systems Research Center, Wuhan University of Technology, China. His research interests are traffic safety, driver behavior, intelligent transport systems and intelligent vehicle. He is membership of the Editorial Board for Transportation Research Part F: Traffic Psychology and Behaviour, and also is Membership of National Intelligent Transportation Systems Standardization committee, China and The Innovation Alliance of Connected and Autonomous Vehicles Testing.

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Dr. Jiahao Wu



Dr. Jia Hao Wu is President of W & S Solutions located in San Francisco Bay Area, CEO of Wu & Song Associates (Shanghai) and an appointed Professor of Shanghai Maritime University Transportation College. He served as Technical Program Chair of San Francisco Bay Area Institute of Transportation Engineers (ITE) and Chair of Smart Transportation Technology of Silicon Valley Chinese Technology and Business Association. In addition, he serves as Co-Chair of Sponsorship of COTA and is a subconsultant manager to the San Francisco Bay Area Metropolitan Transportation Commission (MTC) Dynamic Traffic Assignment Design Program and MTC Traffic Signal Control Program. He organized Connected Vehicle Technologies and Automated Driving: 2017 SF Bay Area ITE/ITS CA Joint Transportation Workshop at San Francisco Metropolitan Transportation Agency. Dr. Wu was project manager of the Guangzhou ITS feasibility study project and pilot implementation jointly sponsored by

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USTDA and Chinese Government and He served as President of San Francisco Bay Area Institute of Transportation Engineers (ITE). Jia Hao received a Certificate of System Engineering for Signal Systems including Adaptive Control from US Federal National Highway Institute and has earned a Ph.D. degree from the University of Montreal in Computer Science and Transportation Modeling and a M.E. degree from the University of Shanghai Science and Technology.

Dr. Jingcheng Wu



Title: Senior Project Manager Affiliation: HDR Address: 3250 W. Commercial Blvd., Suite 100 Fort Lauderdale, FL 33309, USA Phone: 954-233-4930 E-mail: jingcheng.wu@hdrinc.com URL: hdrinc.com/follow-us

Dr. Jingcheng Wu is a senior project manager with HDR Engineering Fort Lauderdale Office. He has 17 years of experience managing projects encompassing all aspects of ITS and traffic engineering. He previously managed the design, integration, operations, and maintenance of the New York City Traffic Control System (NYC-TCS), which controls 12,000+ signalized intersections over a city wide wireless network (NYCWiN). He is the lead design engineer for the ITS and tolling systems of many mega projects, including the \$2.3 billion construction value I-4 Ultimate Express Lanes in Orlando, FL and the \$725 million construction value I-95 reversible Express Lanes in the Washington, D.C. metropolitan area.

Dr. Xinkai Wu



Title: Professor Affiliation: School of Transportation Science and Engineering, Beihang University Address: 37 Xueyuan Rd, Haidian District, Beijing, China, 100191 Phone: +86 10 82316760 Fax: +86 10 82316330 E-mail: xinkaiwubuaa@gmail.com

Dr. Xinkai Wu received his Ph.D. degree in Civil Engineering in 2010 from University of Minnesota – Twin Cities. He is a Professor in the School of Transportation Science and Engineering at Beihang University and a Chinese Young Scholars in 1000 Talents Program of Chinese Government. His research interests are in the areas of urban traffic operations, electric and connected vehicles, smart infrastructure, and transportation big data. On these topics, he has published more than 30 peer-reviewed journal articles and invented many U.S. and China patents.

Dr. Yao-Jan Wu



Title: Assistant Professor Affiliation: University of Arizona Address: Civil Engineering, 1209 E 2nd St. Room 324F Tucson, AZ 85721 USA Phone: +1(520) 621-6570 Fax: +1(520) 621-2550 E-mail: yaojan@email.arizona.edu URL: http://civil.arizona.edu/yao-jan-wu

Dr. Yao-Jan Wu is an assistant professor of transportation engineering in the Department of Civil Engineering and Engineering Mechanics at the University of Arizona (UA). Before joining the UA, Dr. Wu was an assistant professor at Saint Louis University (2011~2013) and postdoc at the University of Virginia (2011). His research broadly covers four major fields: 1) traffic safety, 2) intelligent transportation systems (e.g., development of advanced traffic detection technology, sensor data quality control, and computer vision applications), 3) large-scale network analyses (e.g., online data management and analysis systems, performance measurement and traveler behavior analysis) and 4) sustainable transportation planning & transit (e.g., climate change impact analysis). Dr. Wu was named Professor of the Year in the Department of Civil Engineering and Engineering Mechanics at the UA in 2013. In 2014, Yao was awarded the Outstanding English Editing Chair Award by the 14th COTA International Conference of Transportation professionals.

Dr. Feng Xiao



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Title: Professor Affiliation: Southwestern University of Finance and Economics Address: Liulin Campus (Main Campus): 555, Liutai Avenue, Wenjiang District, Chengdu, Sichuan, P. R. China, 611130 Phone: +86-18200561506 Fax: E-mail: evan.fxiao@gmail.com

Dr. Xiao is currently full professor of the School of Business Administration and the associate director of the Big Data Research Center at Southwestern University of Finance and Economics.

Dr. Xiao specializes in the interdisciplinary research of transportation, economics and artificial intelligence. His principal areas of interest have been in network modeling and optimization, data mining and machine learning and application of game theories in transportation.

Dr. Xiao has been supported by the NSFC through the Excellent Young Scientist program and the Hundred-Talent Program of Sichuan Province. He has published more than 20 papers in top international journals in the area of transportation management, e.g. Trans. Sci., Trans. Res. A, B, C, D, etc.

Dr. Chi Xie



Title: Professor Affiliation: Shanghai Jiao Tong University Address: 800 Dongchuan Rd., Shanghai 200240, China Phone: 021-3420-8385 Fax: 021-3420-6197 E-mail: chi.xie@sjtu.edu.cn URL: sjtu.academia.edu/chixie

Dr. Chi Xie obtained his Ph.D. in Systems Engineering from Cornell University in 2008. He is currently a Professor in the School of Naval Architecture, Ocean and Civil Engineering at Shanghai Jiao Tong University. His main research areas include, but are not limited to, transportation network management and control, travel demand analysis and forecasting, and freight transportation and logistics systems design, in which his research interest is focused on developing innovative methods to analyze and design large-scale urban and regional systems on the strategic and tactic levels. The common goal of his research is to enhance the system efficiency, reliability, security and sustainability,

while reducing the energy use and environmental impacts. His research results have been published in over 80 journal and conference papers, book chapters, and technical reports. Dr. Xie is a 2005 champion of the Richard E. Rosenthal Competition sponsored by the U.S. Military Operations Research Society, a 2006 recipient of the John E. Perry Prize by Cornell University, a 2014 UNSW Visiting Professorial Fellow awarded by University of New South Wales, and a 2013 recipient of the Young 1000-Talent Award granted by the China Recruitment Program of Global Experts. Currently, Dr. Xie acts as an appointed Associate Editor of International Journal of Transportation Science and Technology and an Editorial Board Member or Guest Editor of three other journals, a Co-Convener of the Water Transport Systems Optimization and Management of World Transport Convention, a Member of the Freight Transportation Planning and Logistics Committee of Transportation Research Board, and an Advisory Committee Member of the South China Transportation and Logistics Development Research Center.

Dr. Yuanchang Xie



Title: Associate Professor Affiliation: Department of Civil and Environmental Engineering, University of Massachusetts Lowell Address: One University Ave, Lowell, MA 01854 Phone: (978) 934-3681 Fax: (978) 934-3052 E-mail: yuanchang_xie@uml.edu URL: http://faculty.uml.edu/Yuanchang_Xie/

Dr. Yuanchang Xie received his Ph.D. degree in Civil Engineering in 2007 from Texas A&M University -College Station. He is an associate professor in the Department of Civil and Environmental Engineering at the University of Massachusetts Lowell. Dr. Xie's current research focuses on traffic control, intelligent transportation systems, transportation safety, and data analytics. He has served as the PI/Co-PI of over 20 externally funded projects and the total funding is more than \$4 million. He has published 40 peer-reviewed journal articles and numerous conference articles. Dr. Xie currently is a member of the TRB Transportation of Hazardous Materials Committee. He also serves on the Editorial Boards of Accident Analysis & Prevention and Transportation Research Part C: Emerging Technologies.

Dr. Chengcheng Xu



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Title: Lecturer Affiliation: Southeast University Address: Si Pai Lou #2, Nanjing, China, 210096 Phone: 13801580045 Fax: E-mail: xuchengcheng@seu.edu.cn URL:

Dr. Chengcheng Xu received a B.S. degree from the Southeast University in 2008, a M.E. degree from the Southeast University in 2010, and a Ph.D. degree in transportation engineering from the Southeast University in 2014. He joined school of transportation, Southeast University in 2014. During his Ph.D.'s studies, he spent one year as a joint doctoral student in Purdue University in 2012. Dr. Xu's research interests include traffic safety and intelligent transportation systems. He has been actively involved in more than ten research projects in China.

Dr. Xiangdong Xu



Title: Associate Professor Affiliation: Tongji University Address: College of Transportation Engineering, Tongji University Phone: 15000839657 Fax: E-mail: xiangdongxu@tongji.edu.cn URL: http://www.transdatagroup.com/xxd.html

Dr. Xiangdong XU is an Associate Professor in the College of Transportation Engineering at Tongji University, Shanghai, China. Prior to joining Tongji, he was a Postdoctoral Fellow at The Hong Kong University of Science and Technology. His research interests cover various aspects of transportation network analysis, including behavioral modeling and network optimization under uncertainty, transportation network equilibrium modeling and algorithm development, uncertainty and reliability analysis of transportation systems, transportation network resiliency analysis, traffic flow estimation and sensor location, etc. He has published over 30 refereed papers in international leading journals, and delivered over 20 speeches at international conferences such as ISTTT. Dr. Xu has also served as a reviewer for various refereed international journals and conferences.

Dr. Sunrong Yan



Title: General Manager Affiliation: Baidu Map Open Platform Department Smart Transportation Address: Kuike Technology Building, Jia No.9 Shangdi Information Road, Haidian District, Beijing 10085, P.R. China Phone: +86-10-50817033 Fax: +86-10-61951009/619510010 E-mail: yansunrong@baidu.com

Holding a Master degree in Computing, Mr. Yan expands his career in Baidu after graduation from Beijing Jiaotong University, from a senior R&D engineer to the General manager of the Baidu Smart Transportation platform. With deep understanding of the industry and rich field experience, Mr. Yan owns the invention patents of "Route push and discovery" in 2014 and 2017, a two-time winner of Baidu First Class invention recognition.

His recent focus is the Big Data analysis and application, including commercial data and traffic data analysis. Starting from 2016 his team put great efforts on the reaching of road condition data application for traffic signal optimizations. They aim at designing a better scientific and rigorous tool to help the traffic police and optimize the decision application.

Mr. Di Yang



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Title: Chief Engineer

Affiliation: Shengtong Bombardier(Shanghai) Rail Transit Vehicle Maintenance Co.,Ltd Address: Husong Road No.1006, Songjiang District,Shanghai, PRC Phone: 13661816912 Fax: 21 61250176 E-mail: alex.yang@shbrt.com.cn URL:http://www.linkedin.com/in/alexyoung-mba-pmp%C2%AE-62979834/

Experienced Director of Engineering with a demonstrated history of working in the Railway & Rolling Stock Engineering industry. Skilled in PMP, RAMS(LCC, RCM, CBM), ISO 55000 Assets Management, Metro Fleet Maintenance Management(incl. IOT, EAM, CMMS, etc). Strong engineering professional with a MBA focused in 0&M Management.

Dr. Fei Yang



Title: Professor

Affiliation: School of Transportation and Logisticsl, Southwest Jiaotong University Address: No. 111 North Second Ring Road, Chengdu, China Phone: (86)-135-5002-5963 Fax: (86)-028-87600165 E-mail: yangfei_traffic@swjtu.edu.cn URL:http://userweb.swjtu.edu.cn/Userweb/y angfei/index.htm

Professor Yang is the selected expert of New Century Talent Supporting Project by Chinese Education Ministry, dean of the department of traffic engineering, the vice president of Chengdu non-party intellectuals' association, and the vice president of regional science association of professional committee of the Yangtze River economic belt research academic committee. He graduated from Tongji University with PHD in 2007 and visited University of Wisconsin-Madison as a research scholar in 2011. Professor Yang has undertaken three National Science Foundation of China (NSFC) programs, two province departmental level projects, and more than 30 engineering projects. In recent years, he has published nearly 40 academic papers. He has also published 2 monographs. He applied for 8 national patents (4 authorization, 4 pending) and accessed 2 computer software copyrights.

Field of Research: Traffic Big Data, Intelligent Transportation Technology and Applications, and Traveler Behavior.

Dr. Hai Yang



Title: Chair Professor, Department of Civil and Environmental Engineering The Hong Kong Affiliation: University of Science and Technology Tel: (852) 2358-7178; Fax: (852) 2358-1534; email: cehyang@ust.hk Personal Website: http://ihome.ust.hk/~cehyang/

Prof. Hai Yang is currently a Chair Professor at The Hong Kong University of Science and Technology. He is internationally known as an active scholar in the field of transportation, with more than 220 papers published in SCI/SSCI indexed journals and an H-index citation rate of 45. Most of his publications appeared in leading international journals, such as Transportation Research and Transportation Science. Prof. Yang received a number of national and international awards, including National Natural Science Award bestowed by the State Council of PR China. He was appointed as Chang Jiang Chair Professor of the Ministry of Education of PR China. Prof. Yang is now the Editor-in-Chief of Transportation Research Part B: Methodological, a top journal in the field of transportation.

Dr. Jun Yang

Mr. Qingyan (Ken) Yang



Title: Senior Systems Engineer Affiliation: AECOM Address: Department of Civil, Architectural, and Environmental Engineering 27777 Franklin Road, Suite 2000, Southfield, MI 48034, USA Phone: (248) 204-4928 Fax: (248) 204-5901 E-mail: kyang@aecom.com **CICTP2017**

Mr. Qingyan (Ken) Yang works as a Senior Systems Engineer at AECOM. Mr. Yang specifically experiences in designing and building the integrated ITS solutions for transportation systems. He has been involved in numerous emerging ITS principles, technology and programs for the past 16 years. At his position, Mr. Yang works directly with valued clients to develop unique ITS solutions through application of the systems engineering project development process; Supports ITS/TOC Operations with the development of custom TOC focused data-driven analysis solutions, and leads the planning, development, testing, implementation and troubleshooting of software solutions for ITS based applications such as websites, data analysis tools, and performance assessment tools. His current focuses include

- Effective integration and optimization of transportation system;
- ITS/Transportation data processing, fusing, archiving and visualization;
- Data -driven analytics and software solutions for ITS/TOC operations;
- Performance based advanced traffic signal control and arterial operations, and
- Connected Vehicle data and applications.

Mr. Yang received his B.S. and M.S degrees in Electrical Engineering in 1989 and 1992 from Dalian Maritime University, P.R.China, and a M.S. degree in Civil Engineering (Intelligent Transportation System) in 1999 from Michigan State University, East Lansing, Michigan. He has been working as a grant researcher of the "Eisenhower Grant Research Fellowship" at the US Department of Transportation's Turner-Fairbank Highway Research Center in 1998. Mr. Yang has more than 20 published conference and journal papers.

Dr. Min Yang



Title: Professor Affiliation: School of Transportation, Southeast University Address: Sipailou #2, Nanjing Phone: 86-025-83792513 Fax: 86-025-83794102 E-mail: yangmin@seu.edu.cn URL: http://tc.seu.edu.cn/2011/0723/c860a10474/ page.htm

Dr. Min Yang serves as the assistant to the dean of School of Transportation at Southeast University and is the Deputy Secretary of 2 Committees i.e., Jiangsu Comprehensive Transportation Committee and Science and Technology Committee for Young Scholars in Communications and Transportation

Association of China. He's honored as the Distinguished Young Professor at Southeast University and awarded the honor of High-level Talent from Six Talent Summits in Jiangsu Province. His research focus includes travel demand and behavioral analysis, and the theory of urban public transportation planning. He has published more than 40 SCI or EI journal papers in international journals and granted more than 10 national patents in China. He has presided or participated in over 10 national research projects and won more than 10 provincial or ministerial science and technology awards.

Dr. Saini Yang



Title: Professor Affiliation: Beijing Normal University Address: #12 Xueyun South Road, Jingshikejidasha B-912District, Beijing, P.R.China Phone: +86 15010882575 Fax: +86 010 58804561 E-mail:yangsaini@bnu.edu.cn

Prof. dr. Saini Yang received the B.Sc. degree in Bridge engineering and the M. Eng. degree in transportation engineering from Southeast University, China, the Ph.D. degree in Civil Engineering from University of Maryland, College Park, US. She is currently a full associate professor with Academy of Disaster Management and Emergency Response, at Tongji University, China. She was an assistant professor at Cleveland State University from 2006. Her research interests include infrastructure risk assessment and management, complex network modeling and optimization and transportation planning. She is the PI of multiple state key projects, NSFC projects and international collaborative projects and has published more than 40 academic papers in recent 5 years. She is the Director of International Center for Collaborative Research on Disaster Risk Reduction, the Future Earth – Integrated Risk Governance, China, the secretary of Global System Science and the secretary of ASTAAG-UNISDR.

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Dr. Jieping Ye



Title: VP, Didi Fellow Affiliation: Didi Chuxing

Dr. Jieping Ye is a VP of Didi Chuxing and a Didi Fellow. He is an associate professor of University of Michigan. His research interests include big data, machine learning, and data mining with applications in transportation and biomedicine. He has served as a Senior Program Committee/Area Chair/Program Committee Vice Chair of many conferences including NIPS, ICML, KDD, IJCAI, ICDM, SDM, ACML, and PAKDD. He serves as an Associate Editor of Data Mining and Knowledge Discovery, IEEE Transactions on Knowledge and Data Engineering, and IEEE Transactions on Pattern Analysis and Machine Intelligence. He won the NSF CAREER Award in 2010. His papers have been selected for the outstanding student paper at ICML in 2004, the KDD best research paper runner up in 2013, and the KDD best student paper award in 2014.

Dr. Xin Ye



Title: Professor Affiliation: Tongji University Address: 4800 Cao'an Road, Shanghai, China Phone: 86-18701907838 Fax: 86-21-59946091 E-mail: xye@tongji.edu.cn URL: tjtdm.tongji.edu.cn

Dr. Xin Ye is a professor in Department of Traffic Engineering, College of Transportation Engineering at Tongji University. He is an expert in travel demand modeling with extensive experiece in travel behavior analysis and activity-based travel modeling and forecasting. He served as the principal or major investigator in many research projects funded by National Natural Science Foundation of China, U.S. Department of Transportation, Maryland Department of Transportation, Baltimore Metropolitan Council, etc. He was selected into the "Thousand-Young-

Talent Program" by China's government in 2013. He served as a member of the committee on Traveler Behavior and Values (ADB10) of Transportation Research Board during 2011-2016 and a current member on the Editorial Board of Transportation Letters and IATSS Research Journal.

Dr. Ping Yi



Title: Professor Affiliation: University of Akron Address: 244 Sumner St., Akron, OH 44325, USA Phone: 330-972-7294 Fax: E-mail: pyi@uakron.edu URL: http://www.uakron.edu/engineering/CE/profile. dot?u=pyi

Dr. Ping Yi is a professor in the Dept. of Civil Engineering of The Univ. of Akron. His education experience includes a Ph.D from University of Minnesota and a M.S. from Washington State University. His main areas of research include traffic control and safety, sensor and information technology, system reliability & statistical data analysis.

Dr. Yi was a research scientist and principal engineer in the Minnesota DOT, where he managed several federally funded ITS operational test projects over sensors testing, adaptive signals, parking information systems, and incident and special event management. After joining the academia, Dr. Yi has published widely in refereed journals and completed many federally and state funded projects. He has served many professional societies and committees such as ASCE, TRB, AASHTO, NRC-IDEA, etc.

Dr. Yafeng Yin



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Title: Professor Affiliation: University of Michigan Address: Department of Civil and Environmental Engineering 2129 GG Brown, 2350 Hayward Street, Ann Arbor, Michigan, 48109 Phone: (734) 764-8429 E-mail: yafeng@umich.edu URL http://cee.umich.edu/yafeng-yin

Dr. Yafeng Yin works in the area of transportation systems analysis and modeling, and has published nearly 100 refereed papers in leading academic journals. One of his papers won the 2016 Stella Dafermos Best Paper Award and the Ryuichi Kitamura Paper Award from Transportation Research Board of the National Academies of Sciences, Engineering, and Medicine. Dr. Yin is the Editor-in-Chief of Transportation Research Part C: Emerging Technologies, Associate Editor of Transportation Science, and serves on the editorial boards for another four transportation journals such as Transportation Research Part B: Methodological. He is a member of Transportation Network Modeling Committee, Transportation Economics Committee, and International Cooperation Committee of Transportation Research Board. He is also the Immediate Past President of COTA.

Dr. Rongjie Yu



Title: Associate Professor Affiliation: Tongji University Address: 4800 Cao'an Highway, Shanghai, China, 201804 Phone: 13761572327 E-mail: yurongjie@tongji.edu.cn URL:

Dr. Rongjie Yu is an Associate Professor at College of Transportation Engineering, Tongji University. His main research area is traffic safety analysis, safety improvement countermeasures, and driving behavior analysis. Focused on the research area, he is now the PI for several projects funded by the National Natural Science Foundation of China and other organizations. Dr.Rongjie Yu has published and co-authored 21 SCI/SSCI indexed journal papers, such as Accident Analysis and Prevention, Transportation
Research Par C. And he is also the reviewer for a number of key academic journals in the traffic safety field.

Dr. Zhi Yu



Professor Research Center of Intelligent Transportation System Guangdong Provincial Key Laboratory of ITS Building 312,135 Xingangxi Road,guangzhou 510275, P.R. China Sun Yat-sen University

Tel: 020-39332772-813 Email: stsyuz@mail.sysu.edu.cn

Prof. Zhi Yu is a doctoral tutor in the School of Engineering at Sun Yat-sen University and the first candidates of the state-level millions of talent project. For his outstanding achievement, Prof. Yu was awarded several prizes for Intelligent Transportation System(ITS), including: 1) the Outstanding Achievement Awards of Top Experts by ITS China in 2016; 2) the second class prize for Natural Science Award by the Chinese Academy of Science (ranked No. 1): 3) the second class prize for Science and Technology Progress of Guangdong province (ranked No. 7); 4) the fifth Science and Technology Achievement Award for safety in production (ranked No. 1); 5) the second class prize for ITS China Scientific and Technological Award (ranked No. 3); 6) the China youth science and technology pacemaker; 7) Young Scientist Award of Chinese Academy of Sciences; 8) Outstanding mid-aged experts in Chinese Academy of Sciences; 9) Science and Technology Award for Chinese Youth. Prof. Yu is the founder dean of School of Engineering, SYSU, the current deputy director of Key Laboratory of Video and Image Intelligent Analysis and Application Technology Ministry of Public Security, People's Republic of China, director of Guangdong Provincial Engineering Research Center for Traffic Environmental Monitoring and Control. His research interests include: traffic planning and policy, traffic information system and control, traffic big data, low-carbon transportation and environment. In recent years, as the project leader to undertake transportation, environmental protection, public safety and other fields more than 40 scientific research projects, the project amount of nearly 60 million yuan, including 7 national projects, provincial projects 19 and so on. His research has resulted in more than 100 referred papers, SCI, EI included 34.And 3 monographs published, apply for more than 10 patents.

Dr. Quan Yuan



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Title: Associate researcher Affiliation: Dept. of Automotive Engineering, Tsinghua University Address: Qinghuayuan, Haidian, Beijing, 100084 Phone: 86-13911716021 Fax: 8610-62772721 E-mail: yuanq@tsinghua.edu.cn URL: https://www.researchgate.net/profile/Quan_Yua n23

Dr. Quan Yuan is an associate researcher of the Dept. of Automotive Engineering at Tsinghua University, and a visiting scholar in the University of Washington (12/2013-11/2014). His research focuses on traffic safety, accident analysis, human factors, and intelligent vehicle. As a research expert of traffic accidents, he has analyzed over 5000 traffic crashes in Beijing, China. He achieved Scientific and Technical Awards of ITS China (third prize) in 2013 and Teaching achievement Excellence Award of Tsinghua Univ. (first prize) in 2014. Now he is the reviewers of Transportation Research Part D: Transport and Environment, Transportation Research Part F: Psychology and Behaviour, International Journal of Transportation Science and Technology, International Journal of Environmental Research and Public Health, PLoS ONE, etc.

Dr. Anming Zhang



Title: Professor Affiliation: University of British Columbia Address: 2053 Main Mall, Vancouver, BC, Canada Phone: 604-822-8420 E-mail: anming.zhang@sauder.ubc.ca

Dr. Anming Zhang is a Full Professor in Operations and Logistics and holds Vancouver International Airport Authority Chair Professor in Air Transportation at Sauder School of Business, University of British Columbia (UBC). He served as the Head of the Operations and Logistics Division, Sauder School of Business (2003-2005), and as the Director of UBC's Centre for Transport Studies (2003-2004). He has been the Vice President (Academic & Program) for the World *Air Transport Research Society* (ATRS) since 2006. Dr. Zhang is the recipient of the "Yokohama Special Prize for Outstanding Young Researcher" awarded at the 7th World Conference on Transportation Research (WCTR) in Sydney, Australia in 1995, and of the "WCTR-Society Prize", awarded to the overall best paper of the 8th WCTR in Antwerp, Belgium, in 1998. In June 2014, he won the "Best Overall Paper Prize" at the annual *ITEA (International Transport*

Economics Association) Conference on Transportation Economics, Toulouse School of Economics, France.

Dr. Zhang has published about 150 refereed journal papers in the areas of transportation, logistics, industrial organization, and Chinese economy. He has co-authored two recent books: <u>Globalization and Strategic Alliances: The Case of the Airline Industry</u>, 2000, Pergamon Press, Oxford; and <u>Air Cargo in Mainland China and Hong Kong</u>, 2004, Ashgate, London (*Chinese editions* published both in Hong Kong and Mainland China).

Dr. Fusheng Zhang



Title: Research Fellow. Affiliation: Beijing Key Laboratory of Urban Intelligent Traffic Control Technology, North China University of Technology Address: 5 Jin Yuan Zhuang Road,Shi Jing Shan,Beijing, 100143 Phone: (0086 10) 88801520 E-mail: 8339075@QQ.com

Siemens Ltd. (China), Senior technical expert; Siemens Ltd. (China) intelligent traffic products research core staff. Beijing Key Laboratory of Urban Intelligent Traffic Control Technology, North China University of Technology , Research Fellow; Mainly engaged in traffic detection, traffic control, traffic data analysis technology research, Received multiple National Science and Technology Awards, and participated in compiling of multiple national standards. Presided over traffic signal control project of Beijing, Wuhan, Dalian and other cities.

Dr. Guohui Zhang



Title: Assistant Professor Affiliation: University of Hawaii Address: Department of Civil and Environmental Engineering University of Hawaii Honolulu, Hi 96822 Phone 808-956-2378 E-mail guohui@hawaii.edu

Dr. Guohui Zhang is an Assistant Professor in the Department of Civil and Environmental Engineering at the University of Hawaii. Dr. Zhang received his Ph.D. from the University of Washington in 2008. Dr. Zhang's research focuses on large-scale transportation systems modeling, customized traffic

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simulation, travel delay estimation, traffic safety and accident modeling, congestion pricing, traffic detection and sensor data analysis, and sustainable transportation infrastructure design and maintenance. Dr. Zhang has published nearly 70 peer-reviewed journal articles, conference papers, and technical reports and presented his research contributions numerous times at prestigious international and national conferences.

Dr. Li Zhang



Title: Associate Professor/Principle Affiliation: Department of Civil and Environmental Engineering, Miss State University/Connected Inc. Address: 235 Walker Hall, Miss, State, MS, 39762/ 60 Technology Blvd., Suite 115C, Starkville, MS Phone: 6623253050/6623415725 E-mail: li.zhang@msstate.edu/li.zhang@cvais.com http://www.cee.msstate.edu/people/faculty/lizhang/ http://www.cvais.com

Dr. Zhang received his Ph.D. degree in Civil Engineering in 2000 from Virginia Tech, Blacksburg. He is an associate professor in the Department of Civil and Environmental Engineering at Mississippi State University. Dr. Zhang's current research focuses on traffic control, connected vehicle, traffic simulation, intelligent transportation systems and advanced computing. He has served as the PI/Co-PI of many externally funded projects and the total funding is more than \$20 million. Dr. Xie currently is a member of the TRB Emergency Evacuation Committee.

Dr. Zhang are presidents of two small business companies that has receive multiple million-dollar research funding from US DOT. One of his company has created open source microscopic traffic simulation software ETFOMM (etform.org)

Dr. Tianran Zhang



Title: Vice Director of Transport Model Department Affiliation: Shanghai Urban Planning & Design Research Institute Address: 331,Tongren Road Shanghai, China Phone: 62472386-0425 Fax: E-mail: zhangtianrantj@163.com URL:

Zhang Tianran, Ph.D., senior engineer, is deputy director of traffic modal room of comprehensive transportation branch of Shanghai Urban Planning and Design Research Institute. He worked in Shanghai City Comprehensive Transportation Planning Research Institute and went to the United States for the two time to study traffic model, urban and rural planning and transportation planning. His main research direction is traffic surveys, models, big data, GIS and so on. With more than 30 papers, he has rich experience in transportation model development and application. Furthermore, he presided over the development of several traffic models and information systems development, as well as traffic investigation and data integration check. Recent major work includes a new round of general plan in Shanghai.

Dr. Tiejun Zhang



Title: Professor Engineer Affiliation: Research Institute of Highway Address: 8 Xitucheng Rd,Beijing,100088 Phone: (86)010-82019634, (86)13911024196 Fax: (86)010-62370567 E-mail: tj.zhang@rioh.cn

Dr. Zhang Tiejun is currently the Professor Engineer of Safety Research Center in Research Institute of Highway. He leads the China Road Assessment Program (ChinaRAP) and is a member of the International Road Assessment Program's Global Technical Committee. His areas of expertise include Road network risk assessment, In-depth traffic accident analysis and Safety software and equipment development. He has led dozens of international, national and provincial road safety projects and has published about 40 technical papers.

Dr. Yi Zhang



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Title:	Professor
Affiliation:	Tsinghua University
Address:	Rm.806, Main Building
Phone:	+86-13801014755
Fax:	+86-62789392
E-mail:	zhyi@tsinghua.edu.cn
URL:	

Yi ZHANG is currently the head for institute of systems engineering as the professor in the control science and engineering at Tsinghua University.

His research focuses on intelligent transportation systems (ITS). Active research areas include V2X-based autonomous vehicle control, crowd-source traffic control strategy, intelligent vehicle-infrastructure cooperative systems, analysis of urban transportation systems, urban road network management, traffic data fusion and dissemination, and urban traffic control and management. His research fields also cover the advanced control theory and applications, advanced detection and measurement, and systems engineering, etc.

Dr. Yu Zhang



Title: Associate Professor Affiliation: Civil and Environmental Engineering, University of South Florida Address: 4202 E. Fowler Ave. ENB 118, Tampa, FL 33620 Phone: 813-974-5846 Fax: 813-974-2957 E-mail: yuzhang@usf.edu URL: http://www.nexts-lab.com

Dr. Yu Zhang leads the Next Generation Transportation System Laboratory (NexTS-Lab) at USF with main research areas including transportation system modeling and analysis, air traffic flow management, and multimodal transportation system design and operational management. Dr. Zhang has published about 30 papers in top transportation journals such as Transportation Research Part B, Part C, Part D, and Part E. She 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. Dr. Zhang serves as President for Chinese Overseas Transportation Association (COTA), Chair of the standing committee AV060 of Transportation

Research Board (TRB). Dr. Zhang is the co-director of Center for Transportation, Environment, and Community Health (CTECH), a Tier 1 USDOT University Transportation Center (UTC) and affiliated with two FAA National Centers of Excellence as well. 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. Hongduo Zhao



Title: Professor Affiliation: Tongji University Address: 4800 Cao'an Highway Phone: 13917999669 Fax: 021-69580415 E-mail: hdzhao@tongji.edu.cn URL:

Dr. Zhao is a professor of Tongji University. He is also the dean of Department of Road and Airport Engineering of Tongji University. He has got his PhD degree at Tongji University in 2007. He has been working in UC Davis during 2009 to 2010 as a visiting scholar. His research area is about smart road and airport pavement, including condition monitoring, energy harvesting and precast method of smart pavement.

Dr. Xiangmo Zhao



Professor and Vice President the Joint Laboratory for Connected Vehicles, Ministry of Education & China Mobile Shaanxi Road Traffic Intelligent Detection and Equipment Engineering Technology Research Centre Chang'an University, Middle-section of Nan'er Huan Road Xi'an, Shaanxi Province, 710064 Tel: 029-82334021 Email: xmzhao@chd.edu.cn

Zhao Xiangmo was born in August 1966, and now he is a professor and PhD supervisor in Chang'an University. He has been with Chang'an University over 20years, where he is now a Vice President and Director of Institute of Computer Application. He was awarded " the national May 1st Labor Medal of

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China" in 2001.He currently also serves as a member of the State Council's Discipline Evaluation Committee on Transportation Engineering, and is sitting on the academic leader of state-level key discipline of the Traffic Information Engineering and Control in Chang'an University.

An innovator and pioneer in his fields, Prof. Zhao is a national candidate of "the New Century Talents Project", team leader of Changjiang Scholars and Innovation Team Development Plan of Ministry of Education, leader of 111 project on "Information of Vehicle-Infrastructure Sensing and ITS". He is also a recipient of several awards including second class National Scientific and Technological Progress Award in 2007 and 2014 separately, second class National Award of Teaching Achievement in 2014, first class National Industry Association Science and Technology Award, first class and third class of Provincial Science and Technology Award 6 times. Moreover, Prof. Zhao is a Star Teacher of Shaanxi Province and owns the State Council special government allowance.

In recent years, Professor Zhao Xiangmo mainly engaged in the fields of detection and control of intelligent transportation, a new generation of intelligent transportation system, test technology of CAV and other research aspects. With 39 National Invention Patents, 67 Utility Model Patents and Software Copyright, more than 10 of his achievements have been applied and popularized at home and abroad, and more than 150 of his academic research papers have been published, among of which 90 papers are indexed by SCI, EI, and ISTP retrieval system, and also seven books and textbooks were published as well.

He served, among many other roles, the chairman of Innovation Alliance of Connected and Autonomous Vehicle Testing, the committee member of National Standardization Committee for Safety Technology Testing Equipment for Motor Vehicle Operation, the vice chairman of Shaanxi Province Computer Society, the vice president of Computer Education Institute of Shaanxi Province, and as well as the chief editor of *Journal of Traffic and Transportation Engineering*, the vice chief editor of *Journal of Traffic and Transportation Engineering*, the editor of *Journal of Traffic and Transportation Engineering*, the editor of *Journal of China Highway*, *Journal of Chang'an University*, *Modern Electronic Technology*, *Electronic Design Engineering* and other magazines.

Dr. Xiaohua Zhao



Title: Professor Affiliation: Beijing University of Technology Address: College of Metropolitan Transportation, 100 Pingleyuan, Chaoyang District, Beijing, 100124 Phone: (86)010-67396075, (86)13911395560 Fax: (86)010-67396075 E-mail: zhaoxiaohua@bjut.edu.cn xiaohuazhao618@gmail.com

Dr. Xiaohua Zhao is currently the Professor of College of Metropolitan Transportation in Beijing University of Technology. The member of the Vehicle User Characteristics Committee of Transportation Research Board (TRB). 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 40 national and provincial key research projects, and she is the author or co-author of 89 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, etc.

Dr. Huaguo Zhou



Title: Associate Professor Affiliation: Auburn University Address: 204 Harbert Engineering Center Phone: 334-844-1239 Fax: 334-844-6290 E-mail: zhouhugo@auburn.edu URL:

Dr. Zhou is an associate professor in transportation engineering at the Department of Civil Engineering of Auburn University. His main research area focuses on improving highway safety through advanced highway design and access control techniques. He is a member of TRB Access Management Committee. His research results have been published in over 60 technical journal papers, 90 conference papers, and 25 project reports. He joined Auburn in Fall 2013. Before that, he was an associate professor at Southern Illinois University Edwardsville. He also had 5-year experience as a senior research associate with the Center for Urban Transportation Research (CUTR) at University of South Florida and 2-year industry experience with Parsons Brinkerhoff as a traffic engineer. He obtained his Ph.D. in Transportation Engineering at University of South Florida in 2001. He is a fellow of ITE and has a PE license in Florida.

Dr. Xuesong Zhou.



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Title: Associate Professor Affiliation: Arizona State University School of Sustainable Engineering and the Built Environment SUM/WTR Faculty Research Faculty, TEMPE Campus, Mailcode 3005 E-mail: Xuesong.Zhou@asu.edu URL: https://isearch.asu.edu/profile/2182101

Dr. Zhou's research work focuses on dynamic traffic assignment, traffic estimation and prediction, largescale routing and rail scheduling. He has been assisting the Federal Highway Administration (FHWA) to develop and provide technical support for large-scale simulation-based dynamic traffic assignment systems, for the past 10 years. He serves as an Associate Editor for Transportation Research Part C: Emerging Technologies. He has published more than 30 papers related to dynamic traffic assignment and rail operations research in Transportation Research Part B, Transportation Research Part C, EJOR, and IEEE Transactions on ITS. His paper on single-track train timetabling is one of top 10 mostly cited papers in Transportation Research Part B during the period of 2007-2013. He is the Principle Developer of opensource package DTALite, light-weight open-source traffic assignment/simulation engine and NEXTA, a traffic data visualization platform, which have been used by a number of transportation planning agencies, with more than 3000 downloads from the Google Code website.

Mr. Jinqing Zhu



Title: Principal Engineer Affiliation: DiDi Chuxing Address: Building 35, Zone B, Shangdong-Shuzishangu, No.8 Dongbeiwang, West Road, Haidian District, Beijing Phone: 13426207220 Fax: 01083044986 E-mail: zhujinqing@didichuxing.com URL:

Jinqing Zhu is currently a principal engineer of Didi-Chuxing with a focus on smart transportation. He is responsible for the development of smart transportation data platform and the optimization system of transportation infrastructure (such as signal lights). Before joining Didi, Jinqing worked at Alibaba as a senior expert, engaged in the development of infrastructure data analysis, and real-time system on Spark,

as well as in Alibaba/Taobao database team on MySQL/HBase development. His first work after graduation from Renmin University of China was database engineer in Baidu Phoenix Nest advertising. And his distinguished work was phoenix nest largest optimization in database system (from 1 DB to N DBs).

Dr. Pengyu Zhu



Title: Assistant Professor Affiliation: University of Hong Kong, China Address: Dept. of Geography Jockey Club Tower, 10/F, Room 1023 Phone: +8618857101991 Fax: E-mail: brianzhu@hku.hk

Dr. Pengyu Zhu joined the Faculty of Social Science at the University of Hong Kong in January 2017. Prior to that, Dr. Zhu has been an Assistant Professor in the Department of Community and Regional Planning at Boise State University since August 2011. Dr. Zhu received his Ph.D. in Policy, Planning and Development from the Sol Price School of Public Policy at University of Southern California in 2011. Dr. Zhu's research focuses on the Transportation--Land Use--Economic Development nexus. To date, his work has been published in major academic journals such as Landscape and Urban Planning, Urban Studies, Annals of Regional Sciences, Transportation, Transportation Research Part D, Urban Geography, Cities, and Regional Science and Urban Economics. Due to his exceptional work in the field of Regional Science, Dr. Zhu was awarded the 25th Charles M. Tiebout Prize in Regional Science in 2011 and the Regional Science Springer Prize in 2014.

Dr. Wei Zhu



Title: Associate Professor Affiliation: Tongji University Address: Tongda Building A558, 4800 Caoan Rd. Shanghai, China Phone: +86-136-2185-4009 Fax: +86-021-6958-9372 E-mail: zhuweimail@tongji.edu.cn URL:

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Dr. Wei Zhu is an Associate Professor of the College of Transportation Engineering at Tongji University. He received his doctor degree on transportation engineering in 2011 and was a visiting scholar in National University of Singapore in 2016. His research interests lies in travel demand modelling, rail transit operation and maintenance, etc. He has published more than 40 referred papers including an ESI top 1.5% paper. He is a member in Standing Committee on Rail Transit Infrastructure (AR055) of Transportation Research Board, and also the peer reviewer of several international journals including IEEE Transactions on Intelligent Transportation Systems, Computer-Aided Civil and Infrastructure Engineering, Transport Review, Transportmetrica A&B, Journal of Transportation Engineering-ASCE, etc.

Dr. Abdul Rawoof Pinjari



Title: Associate Professor Affiliation: Department of Civil and Environmental Engineering, University of South Florida Address: 4202 East Fowler Ave, ENB 118 Tampa, Florida, USA Phone: 813-974-9671 Fax: 813-974-2957 E-mail: apinjari@usf.edu URL: http://abdulpinjari.weebly.com/index.html

Dr. Abdul Pinjari is an associate professor in the Department of Civil and Environmental Engineering at the University of South Florida. He has been on the faculty there since 2008 after earning his doctoral degree from the University of Texas at Austin.

His research interests include:

Transportation Planning and Travel Demand Forecasting: Multimodal transportation planning and modeling; Activity-based and micro-simulation approaches to urban travel demand forecasting; Long-distance/Inter-regional travel analysis

Choice Modeling, Applied Econometric Analysis: Discrete choice models; Discrete-continuous systems; Multidimensional choice systems; Kuhn-Tucker Demand Systems; Copula models; Duration models; Statistical analysis and mining of large datasets

Freight Movement Analysis and Modeling: Use of GPS data for freight modeling and planning; Statewide freight travel models; Metropolitan goods movement and commercial vehicle movement; Megaregional freight flow analysis; Economic impacts of freight and logisitics investments.

Land-use and Transportation Interactions: Urban form and travel behavior; Residential self-selection effects, Integrated land-use and travel demand models

Sustainable Transport, Energy and Environment: Travel behavior analysis for sustainable transport planning and policy formulation; Residential and transport-related energy consumption and greenhouse gas emissions; Human exposures to traffic pollutants and related inequities; Household vehicle ownership and usage; Bicycle and pedestrian travel; Elderly mobility issues Consumer perception, market penetration, and activity/travel behavior impacts of autonomous vehicles/driver-less cars.

Transportation Surveys and Data Collection: Activity-travel surveys and methods; Stated preference studies; Data fusion

Transportation Safety: Traffic crash exposure, occurrence, and occupant injury severity

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The 2017 COTA-South China University of Technology

July 3-5, 2017

Department of Civil and Transportation Engineering, Intelligent Transportation System and Logistic Technology Research Institute Address: Transportation Building, 381 Wushan Rr., Tianhe District, Guangzhou, China, Zipcode: 510640 Phone: 020-87114779 Cell: 13600066536/020-22236313 E-mail: hywen@scut.edu.cn wenhuiying@21cn.com



Transportation Reform and Change: Equity, Inclusiveness, Sharing, and Innovation