Intelligence Connectivity and Mobility

CICTP 2018

CONTENTS

智能、互联、移动

Intelligence, Connectivity, Mobility

CICTP 2018

Welcome Remarks

Welcome Remarks

We are pleased to announce that the CICTP2018 received a large number of high-quality technical contributions: among the nearly 873 submissions, a total of 278 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 "Intelligence, Connectivity, and Mobility", the CICTP2018 proceedings 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. At this event we will also issue a COTA lifetime achievement award to a widely-recognized figure to acknowledge and recognize his or her dedication to the development of education, research and practice of transportation engineering in China.

The CICTP2018, one of the largest transportation conferences in China, has attracted more than 1000 participants domestically and internationally from countries and regions all over the world. Nearly eighty conference sessions including plenary, spotlight, invited, and technical sessions, as well as special forums are organized this year. The CICTP2018 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 spotlight sessions.

Other special forums will be focused on issues that are of great interest to the audience of various backgrounds, including Chinese Forum on Traffic Signal Control and Simulation Forum, AI for Transportation Forum-Smart Transportation and Big Data in DiDi, the World Bank Transportation Development Forum, Dean Forum for Chinese University Transportation Schools, COTA Professional Development Forum for Young Scholars and Students, and Policy Dialogue. The Best Paper Awards and other professional awards will be granted to the authors of excellent papers or institutes/enterprises/individuals who have made outstanding contributions to the development of transportation systems in China.

On behalf of the CICTP2018 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 area editors for their excellent efforts. Special thanks go to Tsinghua University, Jiaotong International Cooperation Service Center, 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 CICTP2018 a great success!

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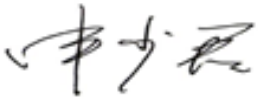

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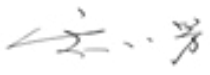

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CICTP 2018

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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.

Tsinghua University

清華大學
Tsinghua University

Tsinghua University was established in 1911, originally under the name "Tsinghua Xuetang". The school was renamed "Tsinghua School" in 1912. The university section was founded in 1925. The name "National Tsinghua University" was adopted in 1928.

The faculty greatly valued the interaction between Chinese and Western cultures, the sciences and humanities, the ancient and modern. Tsinghua scholars Wang Guowei, Liang Qichao, Chen Yinque and Zhao Yuanren, renowned as the "Four Tutors" in the Institute of Chinese Classics, advocated this belief and had a profound impact on Tsinghua's later development.

Tsinghua University was forced to move to Kunming and join with Peking University and Nankai University to form the Southwest Associated University due to the Resistance War against the Japanese Invasion in 1937. In 1946 The University was moved back to its original location in Beijing after the war.

After the founding of the People's Republic of China, the University was molded into a polytechnic institute focusing on engineering in the nationwide restructuring of universities and colleges undertaken in 1952. In November 1952, Mr. Jiang Nanxiang became the President of the University. He made significant contributions in leading Tsinghua to become the national center for training engineers and scientists with both professional proficiency and personal integrity.

Since China opened up to the world in 1978, Tsinghua University has developed at a breathtaking pace into a comprehensive research university. At present, the university has 14 schools and 56 departments with faculties in science, engineering, humanities, law, medicine, history, philosophy, economics, management, education and art. The University has now over 25,900 students, including 13,100 undergraduates and 12,800 graduate students. As one of China's most renowned universities, Tsinghua has become an important institution for fostering talent and scientific research.

The educational philosophy of Tsinghua is to "train students with integrity." Among over 120,000 students who have graduated from Tsinghua since its founding are many outstanding scholars, eminent entrepreneurs and great statesmen remembered and respected by their fellow Chinese citizens.

With the motto of "Self-Discipline and Social Commitment" and the spirit of "Actions Speak Louder than Words", Tsinghua University is dedicated to the well-being of Chinese society and to world development.

Jiaotong International Cooperation Service Center (JICSC)

JICSC
交通国际合作事务中心
Jiaotong International Cooperation Service Center

As an affiliated institution of the Ministry of Transport, JICSC is established upon the co-approval of the central staffing department and the Ministry of Transport. It serves the MOT in promoting international exchanges and cooperation, and promotes the development of transport industry with its technical, intelligence and service strength.

Formerly known as the Foreign Affair Center of Ministry of Transport since its establishment in 1989, not only the name has changed, but also the business of JICSC significantly expanded from merely providing traditional foreign affair service to strategy and policy study consulting concerning industrial development and openness, hosting international expo and international exchanges and cooperation events.

In 2017, JICSC undertook the Facility Connectivity Parallel Session of "Belt and Road Forum for International Cooperation", started to operate the Global Environment Fund Office, hosted the 1st International Transport Safety Expo, organized the 9th China-US Transportation Forum, and conducted international policy studies on the topic of new energy automobiles promotion. Tiding the wave of development and openness, JICSC will forge ahead with firm determination and rigorously intend for innovation in the new era of 2018. We are committed to be a positive contributor to the global governance of transport industry.

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.

CICTP 2018

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DiDi

To build a better journey

Didi Chuxing is the world's leading mobile transportation platform. We are committed to working with communities and partners to solve the world's transportation, environmental and employment challenges by using big data-driven deep-learning algorithms that optimize resource allocation. By continuously improving user experience and creating social value, we strive to build an open, efficient, collaborative, and sustainable transportation ecosystem.

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TECHNOLOGICAL ADVANTAGES

106 TB+ new data/day

4,875TB+ data processed/day

40bn+ routing requests/day

15bn location points/day

- Intelligent ride-matching system enables multi-person carpooling within and across cities
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- DiDi supports cities in efficient and sustainable transportation planning with big data-based transportation capacity

OUR GROWTH

+550 million
passengers

30 million
rides completed per day

~ 21.08 million
job opportunities provided

~ 9,000
employees (~ 50% engineers & data scientists)

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Harbour
海 港 路 桥

海港路桥股份有限公司，是集路桥、隧道、港航、市政工程施工于一体的总承包企业。公司创立于 2005 年，现有员工 728 人，有中高级职称 216 人。公司重信誉、守合同，得到了业界的一致好评，连续 11 年评为浙江省交通建设市场 AA 信用企业，并首批获列交通部公路工程建设领域守信典型企业 " 红名单 "。

公司秉承 " 诚信、品质、创新、高效 " 的宗旨，建立标准化管理体系，推进 BIM 技术，打造 " 智慧工地 "，提升项目管理信息化水平。

公司坚持科技创新，开展 " 四新 " 技术的研发，取得一批专利技术、新工法，获得国家级高新技术企业认证。

公司诚邀业界宾朋莅临素有 " 江南八达岭 " 之美誉的浙江临海古城，共襄盛举，共谋发展，共赢建筑业未来。

Harbour Road&Bridge Co.,Ltd is a contractor of comprehensive construction projects including road, bridge, tunnel, harbor and shipping, and public works. Starting from 2005, the company now has 728 employees, 216 among which gained intermediate or senior professional titles. The company is reputed by the industry to be trustworthy and contract-credited, and is awarded Zhejiang province AA credit transport construction enterprise for 11 consecutive years, and is listed among the first enterprises that are included in the "red list" for their business integrity in transport construction area by the Ministry of Transport.

Committed to the mission of "integrity, quality, innovation and efficiency", the company has set up standardized management systems, promoted the application of BIM technology, implemented the idea of "smart work site" and increasingly employed information technologies to project management.

We whole-heartedly devote ourselves to scientific and technological innovations, especially to the development of new technology, new craft, new material and new equipment, many of which have gained patents. The Company has been identified as national high-tech enterprise.

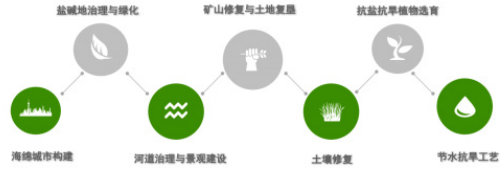
We sincerely invite friends from various industries to come to Linhai City, or "Badaling in the south China" as called, where the company based to join our endeavor to the development of the company and to the win-win future of transport construction industry.

天津绿茵景观生态建设股份有限公司
Tianjin LVYIN Landscape & Ecology Construction Co., Ltd.

Tianjin LVYIN Landscape & Ecology Construction Co., Ltd (stock code:002887) was established in 1998, and then became the first A-share listed landscaping enterprise in Tianjin, the fourth in Northern China. Its main business includes ecological restoration, public landscaping work, estate landscaping, tourism area landscaping, etc. The businesses of the Company form a complete industry chain: planning and engineering-ecological technology R&D-landscape construction-resistant nursery stock breeding-landscape plant maintenance, with which it is able to provide with the clients the integrated ecological landscape construction solutions.

The Company has earned LevelIof the National Urban Landscaping Qualification and Level A of Scene and Landscape Engineering Qualification. It is known as an nation-level hi-tech enterprise and plays an leading role among ecological construction companies in Northern China. The Company has been listed as the top 20 landscaping enterprise in China for 5 consecutive years.

We constantly adhere to the principle of promoting technological innovation, which motivated us to develop many national patents and products of highest competitiveness among other enterprise of the same kind in Tianjin. Our core strengths in this area is the integration of techs and construction methods that are used for saline and alkaline landscaping, water conservation and drought prevention and ecological restoration.



C | D
A | B

A | In 2017, the Group was at the list of "Top 150 Global Engineering Design Companies"(ranking the 75th) of Engineering News Record (ENR) in the United States

B | In 2017, the Group finds itself rank the 93rd among the Top 225 IDF for the first time in the Engineering News Record

C | **The State Key Laboratory on Safety and Health of in-service Long-span Bridges**
Approved by Ministry of Science and Technology of the People' s Republic of China in 2015, it is the only national engineering laboratory in the same research field.

D | **National Engineering Laboratory for Advanced Road Materials**
Approved by the National Development and Reform Commission in 2012, it is the only national engineering laboratory in the same research field.

Global Market Layout

Jsti is an international engineering company who has more than 30 oversea branches in the world, and carrying projects in more than 50 countries. In 2016, Jsti forged strategic alliance with Eptisa and TestAmerica.

EPTISA:the world's leading engineering consulting company

TestAmerica: the largest "one-stop" service provider in the environmental testing market of the U.S.

The operation of JSTI has covered more than **30** branches and more than **50** countries.

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Serbia / 塞尔维亚
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Montenegro / 黑山
Albania / 阿尔巴尼亚
FYROM / 马其顿
Turkey / 土耳其
Greece / 希腊
Kosovo / 科索沃
Portugal / 葡萄牙
Moldavia / 摩尔达维亚
Scotland / 苏格兰

AMERICA / 美洲

USA / 美国
Haiti / 海地
Panama / 巴拿马
Argentina / 阿根廷
Brazil / 巴西
Canada / 加拿大
Costa Rica / 哥斯达黎加
Chile / 智利
Dominican Republic / 多米尼加共和国
Ecuador / 厄瓜多尔
Colombia / 哥伦比亚
Peru / 秘鲁
Bolivia / 玻利维亚
El Salvador / 萨尔瓦多
Guatemala / 危地马拉
Honduras / 洪都拉斯
Nicaragua / 尼加拉瓜
Mexico / 墨西哥
Uruguay / 乌拉圭
Mexico / 墨西哥

ASIA / 亚洲

China / 中国
Georgia / 格鲁吉亚
India / 印度
Bangladesh / 孟加拉
Nepal / 尼泊尔
Kazakhstan / 哈萨克斯坦
Kyrgyzstan / 吉尔吉斯斯坦
Tajikistan / 塔吉克斯坦
Uzbekistan / 乌兹别克斯坦
Armenia / 亚美尼亚
Azerbaijan / 阿塞拜疆
Laos / 老挝
Oman / 阿曼
Laos / 老挝
Philippines / 菲律宾
Cambodia / 柬埔寨
Siri Lanka / 斯里兰卡
Malaysia / 马来西亚
Vietnam / 越南
Bahrain / 巴林
Jordan / 约旦
Lebanon / 黎巴嫩
Palestine / 巴勒斯坦
Qatar / 卡塔尔
Syria / 叙利亚
Israel / 以色列
Afganistán / 阿富汗
South Korea / 韩国

AFRICA / 非洲

Algeria / 阿尔及利亚
Morocco / 摩洛哥
Kenya / 肯尼亚
Congo / 刚果
Djibouti / 吉布提
Egypt / 埃及
Equatorial Guinea / 赤道几内亚
Ivory Coast / 科特迪瓦
Gabon / 加蓬
Angola / 安哥拉
Mauritania / 毛里塔尼亚
Mozambique / 莫桑比克
Namibia / 纳米比亚
Senegal / 塞尔加尔
South Africa / 南非
Sudan / 苏丹
Tunisia / 突尼斯
Ethiopia / 埃塞俄比亚
Tanzania / 坦桑尼亚

总部 Headquarters JSTI

JSTI 苏交科

● 项目覆盖区域 Area covered by its projects
● 分支机构所在地 Branch address
● 美国实验室机构分布区域 Areas where labs are located in the USA

2016 / 12

封闭测试与体验区

面积	5 平方公里
车辆规模	200 辆(背景车：160 辆 / 测试车：40 辆)
道路里程	15 公里
道路类型	模拟高速 + 城市 + 乡村
路侧单元	42 个
应用场景	封闭模拟交通(36 个)
通讯制式	DSRC/LTE-V/Wifi

2017 / 12

开放道路测试示范区

面积	27 平方公里
车辆规模	1000 辆(背景车:900 辆 / 测试车:100 辆)
道路里程	73 公里
道路类型	快速 + 城市 + 乡村 + 园区
路侧单元	182 个
应用场景	区域共享交通(68 个)
通讯制式	DSRC/LTE-V

2019

典型城市综合示范区

面积	100 平方公里
车辆规模	5000 辆(背景车:4500 辆 / 测试车:500 辆)
道路里程	366 公里(含高速 28 公里)
道路类型	高速 / 快速 + 城市 + 乡村
路侧单元	360 个
应用场景	城市区域交通(86 个)
通讯制式	DSRC/LTE-V

2020

示范城市 + 共享交通走

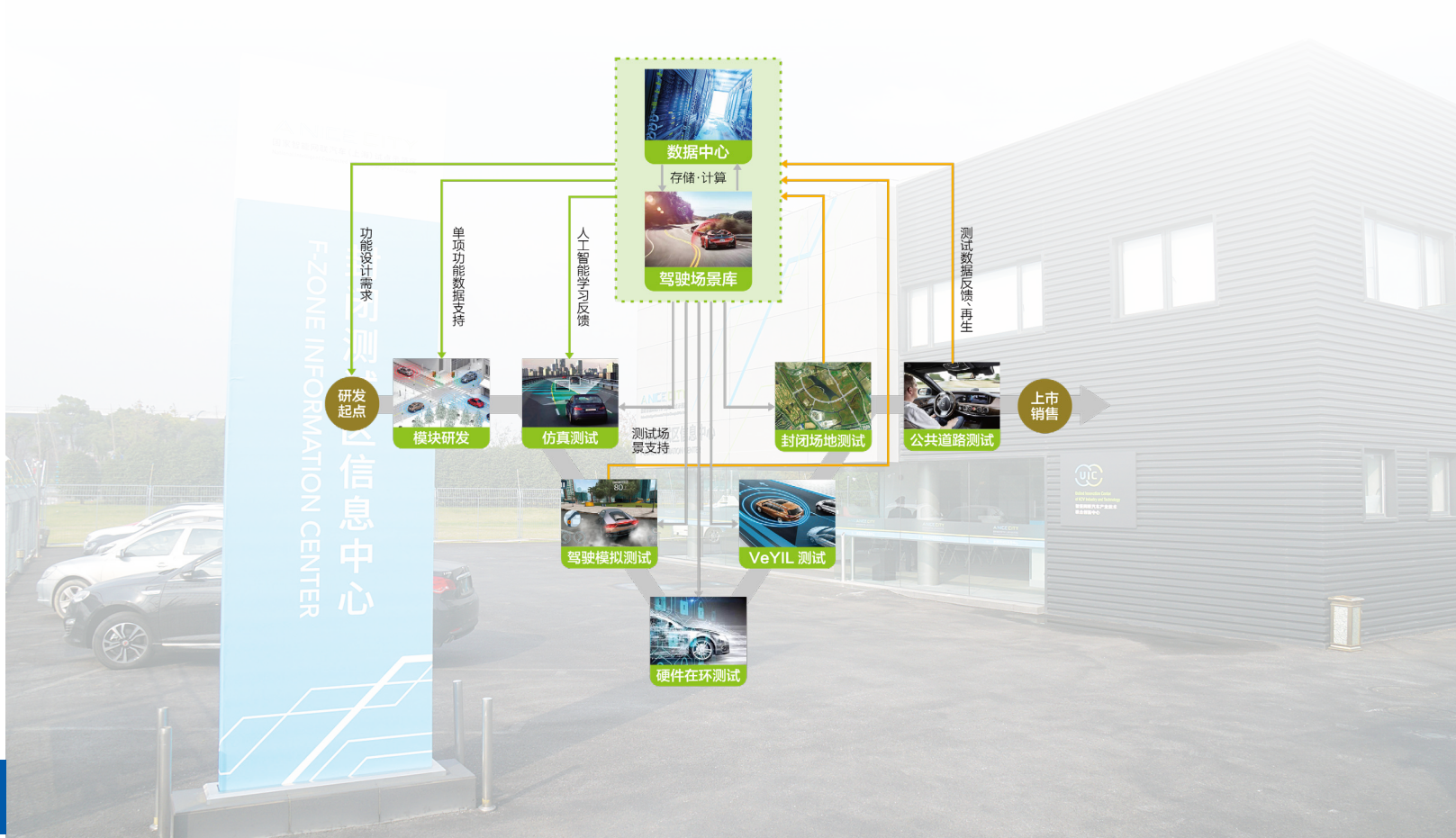
面积	150 平方公里
车辆规模	10000 辆(背景车:9000 辆 / 测试车:1000 辆)
道路里程	500 公里
道路类型	高速 / 高架 + 城市 + 乡村
路侧单元	500+
应用场景	城际综合交通(预计 150 个以上)
通讯制式	DSRC/LTE-V

About National ICV (Shanghai) Pilot Zone

In June 2015, National ICV (Shanghai) Pilot Zone (short for "pilot zone") acquired the approval for construction from Ministry of Industry and Information Technology. The pilot zone aims to become China's main base for China ICV advanced technology research and development, standardized criteria research formulation and product technology inspection authorization, the main window for the exhibition, release, exchanges and cooperation of ICV new technology, new product, new business format, and new mode within 5 years; it is also the main cluster district for the incubator base of relevant industry innovation, talent highland, and industry capital.

According to the industry technology advancement requirements, National ICV (Shanghai) Pilot Zone will be expanded through four stages from enclosed zone to open road, typical city and intercity corridor, forming a platform for systematic evaluation system and comprehensive demonstration.

Further information is available at www.shintelligent.com



宇通客车

宇通客车简介

郑州宇通客车股份有限公司（简称 " 宇通客车 "）是一家集客车产品研发、制造与销售为一体的大型现代化制造企业 , 客车单日最高产能突破 430 台。主厂区位于河南省郑州市宇通工业园 , 占地面积 1, 700 亩。目前已成为中国客车行业最先进、世界规模最大的新能源客车基地。宇通客车于 1997 年在上海证券交易所上市（证券代码 600066）, 是国内客车行业第一家上市公司。2017 年 , 客车产品实现销售 67, 268 辆 , 实现营收 322.22 亿元 , 新能源客车销售 24, 865 辆 , 企业规模、销售业绩在行业继续位列第一。

Introduction of Yutong Bus

Zhengzhou Yutong Bus Co., Ltd. (hereinafter referred to as "Yutong Bus") is a large-scale modern manufacturing company specialized in the R&D, manufacturing and sales of bus products. Its main plant is located in Zhengzhou Yutong Industrial Park, Zhengzhou, Henan province, which covers an area of 1.12 million square meters. The daily capacity of Yutong Bus has reached over 400 buses. Up to now, it has grown up into the largest and the most technologically advanced manufacturing base of large and medium-sized buses around the world.

Yutong Bus was listed in Shanghai Stock Exchange in 1997 (Stock code: 600066), becoming the first listed company in China's bus industry. In 2017, it delivered 67,268 buses and coaches, with a turnover of 32.2 billion yuan. In the same year, 24,865 units of new energy buses were delivered. The enterprise scale and sales performance continuously ranks first in China's bus industry.

北京易华录简介

北京易华录信息技术股份有限公司成立于 2001 年 4 月，是中国华录集团有限公司旗下控股的上市公司（股票代码 300212）。易华录紧紧把握政府管理创新需求，发挥央企优势，将金融资本和产业资本相结合，应用物联网、云计算、大数据、人工智能等技术，实施 "1+3" 发展战略，以数据湖为主体，同时发展大交通、大安全、大健康业务，将线上与线下相结合，科技与文化相融合，打造以数据为核心的城市互联网运营商，为政府、社会、公众提供服务，成为政府社会化服务的主要提供商。

Founded in April 2001, Beijing E-Hualu Information Technology Co., Ltd. (Stock Code: 300212) is a listed company under the state-owned enterprise China Hualu Group Co., LTD. directly administrated by SASAC.
Closely meeting the innovative needs of governmental regulation and exerting the advantages of state-owned enterprise, E-Hualu combines the industry operation and capital operation, and implements the "1+3" development strategy by applying the cutting-edge technology such as IoT, cloud computing, big data and artificial intelligence, etc. to develop the businesses of Intelligent Traffic, Public Security and Health & Pension while focusing on the City Datalake. Through the integration of online and offline services, and of technology and culture, E-Hualu is committed to developing into a data-focused city Internet operator, providing the value-added services for governments, society and the public, and becoming one of major providers in socialized government services.

About Infineon

Infineon Technologies AG is a world leader in semiconductor solutions that make life easier, safer and greener. Microelectronics from Infineon is the key to a better future. In the 2017 fiscal year (ending 30 September), the Company reported sales of around € 7.1 billion with about 37,500 employees worldwide. Infineon is listed on the Frankfurt Stock Exchange (ticker symbol: IFX) and in the USA on the over-the-counter market OTCQX International Premier (ticker symbol: IFNNY).

Automotive, Industrial Power Control, Power Management & Multi-market, Chipcard & Security are four business groups of Infineon, where we all hold a leading position around the globe.

Regarding automotive sector, Infineon provides advanced products and solutions in the industry. We are dedicated to provide semiconductors for body, powertrain, safety, and hybrid and electric vehicle applications based on nearly 40 years of experience in automotive applications and standards. Our commitment to innovation and high quality means customers can count on us to successfully drive their applications into the tomorrow and beyond, and we contribute to more sustainable mobility by reducing fuel consumption and emissions, improved safety or affordability.

Further information is available at www.infineon.com

江西公交联盟

Jiangxi Bus Enterprise League

江西公交企业联盟是一家由江西公交企业为基础，以资源共享、优势互补、互惠互利、合作共赢、相互促进、共同发展为根本目标的战略伙伴联盟。

联盟致力于发挥骨干企业引领与带动作用，携手开展技术、集中采购、运营、信息、数据、媒体、标准等价值链环节协同合作，资源共享，增强企业竞争和服务能力，促进中小城市、农村公交企业整体健康、可持续发展。争取贯彻落实国家相关政策，提供行业服务资讯，加强行业技术教育，为企业培训就业人才，协助行业主管部门做好安全监管服务工作，推动发展智能公交，提升服务保障智能化水平。跨界融合追求更多的利润增长点，打造交通新能源、智能化运营模式，为中小公交企业可持续发展寻找新契机。

Jiangxi Bus Enterprise League is formed based on bus enterprises in Jiangxi province, who take each other as strategic partner and are commonly committed to the highest mission of resources sharing, strengths complementarity, mutual benefit, win-win cooperation and reciprocal development.

The League attaches great importance to the leading role of pillar enterprises in motivating the whole industry by strengthening coordination and cooperation with them regarding technology development, centralized procurement, operation, communication, data sharing, enterprise promotion, standard formulation among other aspects that deliver value. Our goals are stronger enterprise competitiveness and service and the sustainable and healthy overall development of middle and small rural bus enterprises. The League has spared no effort in implementing national policies, providing industrial development information, enhancing occupational education of the industry, advancing the development of smart bus, improving the intelligence level of service-providing. We are exploring for new profit growth points under the context of cross-border integration, to build a smart-and-new-energy bus operation system and present emerging opportunities of development for middle and small bus enterprises.

经营理念

盈利模式

中金环境
ZHONGJINENVIRONMENT

Nanfang Zhongjin Environment Co., Ltd.

Nanfang Zhongjin Environment Co., Ltd. (hereinafter referred to as "Zhongjin Environment") was founded in 1991, The company is listed on Shenzhen Stock Exchange in Dec. 2010 with the stock code: 300145, and its capital operating headquarters is located in Yuhang District, Hangzhou City, Zhejiang Province and its management headquarters is located in capital Beijing.

Zhongjin Environment is an enterprise that provides comprehensive treatment service for the ecological environment. Under the jurisdiction, there are many institutions like Huafan Group, Nanbeng Business Division, Sewage and Sludge Treatment Business Division, Zhejiang Jintailai. The business covers project investment, environmental protection consultation, engineering design, environmental governance, equipment manufacture and so on. Zhongjin Environment has a complete industrial chain with the integration of environmental protection industries and one-stop service, and seeks to become a leading international comprehensive service provider for environment.

DEKRA, the Global Market Leader in Vehicle Inspection

Founded in 1925 in Berlin as Deutscher Kraftfahrzeug-Uberwachungs-Verein e.V., DEKRA conducts around 26 million vehicle inspections per year, and has built the largest independent automotive test area for connected and autonomous driving in Europe.With a worldwide network of laboratories and global market access service, DEKRA provides services across the entire automotive supply chain.

DEKRA
On the safe side.

Material	>Chemical analysis >Physical test >Environmental & reliability test
Components	>Type approval & homologation >EMC, RF & wireless test >Reliability & mechanical test >Failure analysis and chemical analysis
Whole Vehicle	>Global market access >Type approval >Road test >Crash test
e-Mobility	>Testing and certification for EV components >Testing and certification for charging storage system >Training, supervision and inspection for charging infrastructure >EV battery test
Aftersales	>Dealer network solutions >Used car management >Vehicle inspection >Claims
Whole Automotive Industry Chain	>Certification of management systems >Training >Consulting

info@dekra.com.cn www.dekra.com.cn

车和家 CHJ Automotive

车和家简介

CHJ INTRODUCTION

We believe that, except for public spaces, the two most important private spaces in ourl ives are our cars and our homes. Thus, our mission is not only to make better cars, but to create a high-quality mobility space. While providing high-level safety, superior comfort and high quality, the mobility space should help users to efficiently get access to external connections, information, and services, and should keep hardware and software updated.
We are committed to building a growing company and giving every member of our company an opportunity for self-development. Therefore, every employee will be fully trusted and authorized; we will work together and solve problems based on common values and in a transparent information system, which is the basic reason for our higher efficiency and faster iterative development process.

OUR PRODUCT

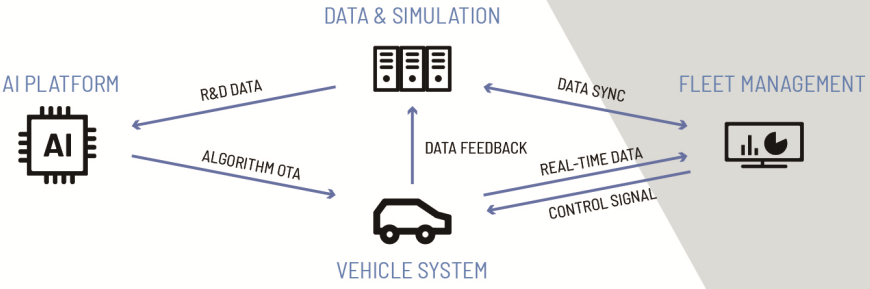
CHJ's first passenger car is a premium intelligent electric SUV without range anxiety, adopts the "Fusion Power"intelligent electric solution – a large-capacity battery pack and a range extender, thus its range over 700 kilometer which exceeds most of the fuel vehicles. In addition, it is equipped with advanced intelligent HMI system and ADAS that can meet the needs of users for both space and premium quality.

OUR MOBILITY SERVICE

CHJ and DiDi Chuxing have established a strategic partnership, with both sides building specialized intelligent electric vehicles sharing the mobile space, and developing a deep, multifaceted partnership in automated vehicle team operations and services, automated driving standardization applications, and the like, and together we are exploring the future of travel.

AUTONOMOUS DRIVING STRATEGY(L4)

1. Strategy:
Realize massive production and commercial operation of Robo-taxi in 2025, and achieve the goal of 100 million kilometers ride-hailing service per day in China.
2. Introduction:
a) CHJ plans to develop a full-stack AD solution that compliant with ride-hailing scenario, and as well as the Robo-taxis.
b) AD solution includes four platforms: vehicle system, data & simulation, AI, and fleet management.



3. Team introduction:
Core team members come from top tech-giants, Tier1s, and OEMs, and the team is quickly expanding.

OUR MANUFACTURE

CHJ intelligent vehicle manufacturing base Covering an area of 500,000 square meters, with a designed annual capacity of 200,000 vehicles, the manufacturing base will be highly automated, with a high-quality, energysaving, and environmentally friendly manufacturing process.

OUR TEAM

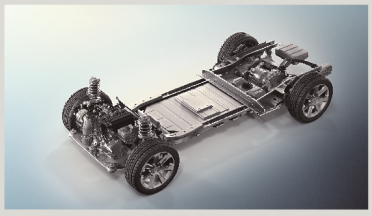
CHJ has established an R&D and supply chain team of nearly 1,000 people,and product R&D and mass production preparation work are progressing efficiently. Of these, the scale of the intelligent systems R&D team exceeds 300 persons. They are specialized in R&D of intelligent systems, intelligent services, and automated driving systems.

FINANCING INFORMATION

Over the past two and a half years CHJ has attracted 5.755 billion RMB of funding. The B-round financing had Matrix Partners China and the New Energy Fund under the aegis of the Shougang Fund as the lead investors, and old shareholders like the Yintai Group, Source Code Capita I , Bluerun Ventures , FutureCap, FunCity Capital, and other organizations investing, with TH Capital serving as the sole financial consultant for this round of funding.


CHJ PREMIUM INTELLIGENT ELECTRIC SUV


CHJ SUV PROTOTYPE ROAD TEST


CHJ "FUSION POWER" INTELLIGENT ELECTRIC SOLUTION


CHJ CHANGZHOU MANUFACTURING BASE

CHJ STRATEGIC PARTNERS

CICTP 2018

Program at a Glance

Date	Time	Session	Room
Thursday, July 5, 2018	14:00-21:00	**Registration**	Lobby of Xijiao Hotel
	14:00-17:00	Deans' & Young Talents' Forum Development of Intelligent Transportation (Tea break & Photographing included)	Jinyuan Hall, Xijiao Hotel
	17:30-19:00	Banquet(invitation only)	Xiyuan Dining Hall, Xijiao Hotel
Friday, July 6, 2018	07:30-08:30	**Registration**	New Tsinghua Xuetang, Tsinghua University
	08:30-09:30	**Opening Ceremony**	New Tsinghua Xuetang, Tsinghua University
	09:30-10:00	Tea break & Photographing	New Tsinghua Xuetang, Tsinghua University
	10:00-12:00	Keynote Session: Connected and Automated Transportation System	New Tsinghua Xuetang, Tsinghua University
	12:30-14:00	Lunch	Shangyuan Dining Hall, Xijiao Hotel
	14:00-15:50	Plenary Session 1: Emerging Transportation Technologies and Service Forms	Ginkgo Hall, Xijiao Hotel
		Spotlight Session 1: Opportunities and Challenges in Transportation System Management	Meeting Room 6, Xijiao Hotel
		THU Invited Session 1: Education challenges for future transportation engineering	Meeting Room 1, Xijiao Hotel
		THU Invited Session 2: New Energy Auto	Meeting Room 2, Xijiao Hotel
		THU Invited Session 3: Advances in Vehicle Safety	Meeting Room 3, Xijiao Hotel
		THU Invited Session 4: V2X based transportation system and intelligent driving	Meeting Room 7, Xijiao Hotel
		THU Invited Session 5: ICVT: Center for Intelligent Connected Vehicles & Transportation	Huiyuan Hall, Xijiao Hotel
		AI for Transportation: Big Data and Smart Transportation in DiDi	Meeting Room 5, Xijiao Hotel
		Practical Application of BIM Technology by Constructing Enterprise	Jinyuan Hall, Xijiao Hotel
	15:50-16:10	Tea break	Xijiao Hotel
	16:10-18:00	Spotlight Session 2: Infrastructure and Traffic Safety	Meeting Room 6, Xijiao Hotel
		THU Invited Session 5: ICVT: Center for Intelligent Connected Vehicles & Transportation	Huiyuan Hall, Xijiao Hotel
		AI for Transportation Forum- Smart Transportation and Big Data in DiDi	Meeting Room 5, Xijiao Hotel
		Meet the Editors-in-Chief	Jinyuan Hall, Xijiao Hotel
		Technical Session 1: Autonomous and Connected Vehicles	Meeting Room 1, Xijiao Hotel
		Technical Session 2: Intelligent and Connected Transportation Systems (ITS)	Meeting Room 2, Xijiao Hotel
		Technical Session 3: Public Transit	Meeting Room 3, Xijiao Hotel
		Technical Session 4: Rail Operations, Management and Control	Meeting Room 7, Xijiao Hotel

		Technical Session 5: Road Traffic Operations, Management, and Control	Meeting Room 8, Xijiao Hotel
		Technical Session 6: Traffic Safety, Security and Emergency Responses	Meeting Room 11, Xijiao Hotel
		Technical Session 7: Traffic Safety, Security and Emergency Responses	Meeting Room 12, Xijiao Hotel
		Technical Session 8: Traffic Safety, Security and Emergency Responses	Meeting Room 15, Xijiao Hotel
		Technical Session 9: Transportation Energy, Environment and Sustainability	Meeting Room 18, Xijiao Hotel
		Technical Session 10: Transportation Policy, Planning and Modeling	Zhongbei Hall, Xijiao Hotel
	18:30-20:30	**The Conference Banquet**	Ginkgo Hall, Xijiao Hotel
Saturday, July 7, 2018	08:00-09:50	Plenary Session 2: Frontiers in Transportation Data Analysis and System Management	Ginkgo Hall, Xijiao Hotel
		Spotlight Session 3: New Data and Techniques for Transportation System Analysis	Meeting Room 6, Xijiao Hotel
		Policy Dialogue	Jinyuan Hall, Xijiao Hotel
	09:00-11:40	Traffic Signal Control and Simulation Forum	Meeting Room 5, Xijiao Hotel
	09:50-10:10	Tea break	Xijiao Hotel
	10:10-12:00	Plenary Session 3: Transportation and Its Key Role in Economic and Social Issues	Ginkgo Hall, Xijiao Hotel
		Spotlight Session 4: Innovation in Multimodal Transportation System	Meeting Room 6, Xijiao Hotel
		Policy Dialogue	Jinyuan Hall, Xijiao Hotel
		Working Meeting of Committee of Youth Scientific & Technological Professionals (CYSTP)	Huiyuan Hall, Xijiao Hotel
		Technical Session 11: Autonomous and Connected Vehicles	Meeting Room 1, Xijiao Hotel
		Technical Session 12: Logistics and Freight Transportation	Meeting Room 2, Xijiao Hotel
		Technical Session 13: Public Transit	Meeting Room 3, Xijiao Hotel
		Technical Session 14: Rail Operations, Management and Control	Meeting Room 7, Xijiao Hotel
		Technical Session 15: Road Traffic Operations, Management, and Control	Meeting Room 8, Xijiao Hotel
		Technical Session 16: Traffic Safety, Security and Emergency Responses	Meeting Room 11, Xijiao Hotel
		Technical Session 17: Transportation Cloud, Data Mining and Applications	Meeting Room 12, Xijiao Hotel
		Technical Session 18: Transportation Cloud, Data Mining and Applications	Meeting Room 15, Xijiao Hotel
		Technical Session 19: Transportation Policy, Planning and Modeling	Meeting Room 18, Xijiao Hotel

		Technical Session 20: Transportation Policy, Planning and Modeling	Zhongbei Hall, Xijiao Hotel
	12:00-14:00	Lunch	Shangyuan Dining Hall , Xijiao Hotel
	14:00-15:50	Plenary Session 4: Traffic Safety in the New Era	Ginkgo Hall, Xijiao Hotel
		Spotlight Session 5: Advances in Transportation Modeling	Meeting Room 6, Xijiao Hotel
		Expert Workshop	Jinyuan Hall, Xijiao Hotel
		The Construction and Maintenance of Green Transport Infrastructure	Meeting Room 8, Xijiao Hotel
		THU Invited Session 6: Transport System Optimization	Meeting Room 1, Xijiao Hotel
		THU Invited Session 7: Human-machine Co-driving	Meeting Room 2, Xijiao Hotel
		THU Invited Session 8: Traffic safety	Meeting Room 3, Xijiao Hotel
		THU Invited Session 9: Electrification in Transportation	Meeting Room 7, Xijiao Hotel
		THU Invited Session 10: Information sharing platform of traffic safety research	Huiyuan Hall, Xijiao Hotel
	13:40-17:00	Traffic Signal Control and Simulation Forum	Meeting Room 5, Xijiao Hotel
	14:00-18:30	Forum of Tsinghua Civil Engineering Alumni	Room 201, Heshanheng Building, Tsinghua University
	15:50-16:10	Tea break	Xijiao Hotel
	16:10-18:00	Plenary Session 5: Transportation System Planning and Operation: Retrospect and Prospect	Ginkgo Hall, Xijiao Hotel
		Spotlight Session 6: Operation and Management toward Efficient Transportation	Meeting Room 6, Xijiao Hotel
		Expert Workshop	Jinyuan Hall, Xijiao Hotel
		THU Invited Session 10: Information Sharing Platform of Traffic Safety Research	Huiyuan Hall, Xijiao Hotel
		Technical Session 21: Autonomous and Connected Vehicles	Meeting Room 1, Xijiao Hotel
		Technical Session 22: Logistics and Freight Transportation	Meeting Room 2, Xijiao Hotel
		Technical Session 23: Public Transit	Meeting Room 3, Xijiao Hotel
		Technical Session 24: Rail Operations, Management and Control	Meeting Room 7, Xijiao Hotel
		Technical Session 25: Road Traffic Operations, Management, and Control	Meeting Room 8, Xijiao Hotel
		Technical Session 26: Traffic Safety, Security and Emergency Responses	Meeting Room 11, Xijiao Hotel

		Technical Session 27: Traffic Safety, Security and Emergency Responses	Meeting Room 12, Xijiao Hotel
		Technical Session 28: Transportation Energy, Environment and Sustainability	Meeting Room 15, Xijiao Hotel
		Technical Session 29: Transportation Policy, Planning and Modeling	Meeting Room 18, Xijiao Hotel
		Technical Session 30: Transportation Policy, Planning and Modeling	Zhongbei Hall, Xijiao Hotel
	18:00-20:00	Dinner	Shangyuan Dining Hall , Xijiao Hotel
Sunday, July 8, 2018	08:00-09:50	Plenary Session 6: Emerging Trends in Transportation Research	Ginkgo Hall, Xijiao Hotel
		Spotlight Session 7: Signal and Roadway Control with New Technologies	Meeting Room 6, Xijiao Hotel
		World Bank China Transport Forum	Meeting Room 5, Xijiao Hotel
		Technical Session 31: Autonomous and Connected Vehicles	Meeting Room 2, Xijiao Hotel
		Technical Session 32: Pavement and Materials Engineering, and Highway Construction and Maintenance	Meeting Room 3, Xijiao Hotel
		Technical Session 33: Public Transit	Meeting Room 11, Xijiao Hotel
		Technical Session 34: Road Traffic Operations, Management, and Control	Meeting Room 12, Xijiao Hotel
		Technical Session 35: Road Traffic Operations, Management, and Control	Meeting Room 15, Xijiao Hotel
		Technical Session 36: Road Traffic Operations, Management, and Control	Meeting Room 18, Xijiao Hotel
	09:50-10:10	Tea break	Xijiao Hotel
	10:10-12:00	Spotlight Session 8: Improving Mobility with Innovation	Meeting Room 6, Xijiao Hotel
		World Bank China Transport Forum	Meeting Room 5, Xijiao Hotel
		Technical Session 37: Intelligent and Connected Transportation Systems (ITS)	Meeting Room 2, Xijiao Hotel
		Technical Session 38: Public Transit	Meeting Room 3, Xijiao Hotel
		Technical Session 39: Public Transit	Meeting Room 11, Xijiao Hotel
		Technical Session 40: Road Traffic Operations, Management, and Control	Meeting Room 12, Xijiao Hotel
		Technical Session 41: Smart Mobility and Shared Economy	Meeting Room 15, Xijiao Hotel
		Technical Session 42: Traffic Safety, Security and Emergency Responses	Meeting Room 18, Xijiao Hotel
	12:00-14:00	CICTP Best Paper Award and Closing Ceremony & Farewell Lunch	Ginkgo Hall, Xijiao Hotel

CICTP 2018

Program

Thursday, July 5

Deans' Forum & Young Talents' Forum **Moderator:** *Diange Yang, Dean, Professor, Tsinghua University, China*	**14:00-17:00** **Jinyuan Hall** **Xijiao Hotel** 西郊宾馆金缘厅
14:00 – 14:20	Diange Yang, Professor, Tsinghua University, China. (Welcome speech) Dongping Fang, Professor, Tsinghua University, China
14:20 – 16:00	Ming Cai, Professor, Sun Yat-sen University, China
	Guangjun Gao, Professor, Central South University, China
	Song Gao, Professor, Shandong University of Technology, China
	Yufeng Gao, Professor, Hohai University, China
	Ying-en Ge, Professor, Shanghai Maritime University, China
	Zhaoyi He, Chongqing Jiaotong University, China
	Jibin Hu, Professor, Beijing Institute of Technology, China
	Zhiyuan Hu, Professor, Chongqing University of Technology, China
	Xiangchen Hou, Professor, Harbin Institute of Technology, China
	Xiaofeng Ji, Professor, Kunming University of science and technology, China
	Haobin Jiang, Professor, Jiangsu University, China
	Shiwu Li, Professor, Jilin University, China
	Wenyong Li, Professor, Guilin University of Electronic Technology, China
	Jianming Ling, Professor, Tongji University, China
	Pan Liu, Professor, Southeast University, China
	Xiaobo Liu, Professor, Southwest Jiaotong University, China
	Guangquan Lu, Professor, Beihang university, China
	Lei Nie, Professor, Beijing Jiaotong University, China
	Huimin Niu, Professor, Lanzhou Jiaotong University, China
	Zhongren Peng, Professor, Shanghai Jiao Tong University, China
	Qin Shi, Professor, Hefei University of Technology, China
	Jianjun Wang, Professor, Chang'an University, China
	Xianhui Wang, Professor, Nanjing University of Science and Technology, China
	Huiying Wen, Professor, South China University of Technology, China
	Shengchuan Zhao, Professor, Dalian University of Technology, China
16:00 – 16:15	*Tea/Coffee Break, Group Photo*
16:15 – 16:45	Yanjun Huang, University of Waterloo, Canada
	Chen Lv, Nanyang Technological University, Singapore
	Fuxi Wen, Chalmers University of Technology, Sweden
16:45 – 17:30	Free Discussion

Friday, July 6

Opening Ceremony **Chair:** *Xiaokun Wang, Vice President of COTA*	**8:30-9:30** **New Tsinghua Xuetang** 新清华学堂
Welcome Remarks	
8:30 – 8:35	Xiaokun Wang, Organizing Committee Chair of CICTP2018, Vice President of COTA, Rensselaer Polytechnic Institute
8:35 – 8:40	Zheng You, Conference Chair of CICTP2018, Academician of CAE, Vice President of Tsinghua University, China
8:40 – 8:45	Xiaoming Liu, Vice Minister of Transport of the People's Republic of China
8:45 – 8:50	Lei Zhang, Executive and Organizing Committee Chair of CICTP2018, President of COTA, University of Maryland
8:50 – 8:55	Diange Yang, Executive and Organizing Committee Chair of CICTP2018, Head of Department of Automotive Engineering(DAE), Tsinghua University
8:55 – 9:00	C. Michael Walton, Member of the U.S. National Academy of Engineering (NAE), University of Texas at Austin
9:00 – 9:05	Bo Zhang, Co-founder, CTO, DiDi
9:05 – 9:10	Yong Qi, President of Tianjin LVYIN Landscape & Ecology Construction Co., Ltd, EMBA of Cheung Kong Graduate School of Business and Tsinghua University
9:10 – 9:30	Yu Zhang, Conference Chair of CICTP2018, Immediate Former President of COTA, University of South Florida Zhisheng Yu, Professor of Department of Automotive Engineering(DAE), Tsinghua University. 2018 COTA Lifetime Achievement Award
Photographing	***9:30-10:00***

Keynote Session: **Chair:** *Lei Zhang, President of COTA*	**10:00-12:00** **New Tsinghua Xuetang** 清华大学新清华学堂
10:00 – 10:30	Impact of Connected and Autonomous Vehicles on Transportation Infrastructure *David Hein, President, American Society of Civil Engineers, Transportation and Development Institute, Toronto, Canada.*
10:30 – 11:00	Toward a Cooperative and Automated Transportation System *C. Michael Walton, Member of the U.S. National Academy of Engineering (NAE), Professor, the University of Texas at Austin, USA*
11:00 – 11:30	Development of an Integrated Transportation System of Connected Automated Vehicle and Highway *Bin Ran, Professor, University of Wisconsin at Madison, USA; Southeast University, China*
11:30 – 12:00	AI for Transportation *Henry Liu, VP and Chief Scientist on Smart Transportation, DiDi*

Friday, July 6

Plenary Session 1: Emerging Transportation Technologies and Service Forms **Chair:** *Yu Zhang, Immediate Former President of COTA, University of South Florida, USA*	**14:00 – 15:50** **Ginkgo Hall** **Xijiao Hotel** 西郊宾馆银杏大厅
14:00 – 14:25	Personalized Transportation Demand Management based on Dynamic Incentives, Real-Time Models, and Artificial Intelligence *Lei Zhang, President of COTA, University of Maryland*
14:25 – 14:50	Emerging Research Issues in Ride-sourcing Markets *Hai Yang, Editor-in-Chief of Transportation Research B, Chair Professor, The Hong Kong University of Science and Technology, China*
14:50 – 15:15	Intelligent transportation construction based on Data Lake *Zhanqiang Zhai, Associate Professor,Beijing E-Hualu Information Technology Co.,Ltd*
15:15 – 15:40	Economic Mechanisms for Cooperative Vehicle Platooning *Yafeng Yin, Professor, University of Michigan Ann Arbor, USA*

Spotlight Session 1：Opportunities and Challenges in Transportation System Management **Chair:** *Xuesong Zhou, Associate Professor, Arizona State University, Arizona*	**14:00 – 15:50** **Meeting Room 6** **Xijiao Hotel** 西郊宾馆第六会议室
14:00 – 14:25	Relationship between Transportation and Urban Air Pollution Variations *Zhongren Peng, Professor, University of Florida*
14:25 – 14:50	Adopting New and Emerging Transportation Technologies, Hurdles and Implications *Shuming Yan, Transportation Engineering Manager, City of Bellevue, Washington, US*
14:50 – 15:15	Intersection Control with Autonomous Vehicles Using Game Theory *Ping Yi, Professor, University of Akron*
15:15 – 15:40	Structured modeling in large-scale dynamic transportation system optimization: A hyper network based framework *Xuesong Zhou, Associate Professor, Arizona State University*

THU Invited Session 1: Education Challenges for Future Transportation Engineering **Chair:** *Jing Shi, Professor, Tsinghua University, China* *Meng Li, Associate Professor, Tsinghua University, China*	**14:00 – 15:50** **Meeting Room 1** **Xijiao Hotel** 西郊宾馆第一会议室
Speakers	Yinhai Wang, Professor and Director,Pacific Northwest Transportation Consortium (PacTrans), US-DOT University, University of Washington Xiangmo Zhao, Professor and Vice President, Chang'an University Yunpeng Wang, Professor, Beihang University Hongzhi Guan, Professor, Beijing University of Technology Chunfu Shao, Professor, Beijing Jiaotong University Jianming Ling, Professor, Tongji University
14:00 - 15:00	*Speakers' talk on the topic*
15:00 – 15:50	*Free talk & exchange*

Friday, July 6

THU Invited Session 2: New Energy Auto

14:00 – 15:40
Meeting Room 2
Xijiao Hotel
西郊宾馆第二会议室

Chair: *Hewu Wang, Associate Professor, Tsinghua University, China*
Co-chair: *Han Hao, Assistant Professor, Tsinghua University, China*

14:00	Opening Remarks
14:00 – 14:20	Research on NEV Policies in the Post Subsidy Era *Bin Liu, CATARC*
14:20 –14:40	Hydrogen Fuel Cell Vehicle Policy *Chengbin Zhang, China EV100*
14:40 – 15:00	Road Transport Energy Demand and GHG Emissions in Future China *Xunmin Ou, Associate Professor, Tsinghua University, China*
15:00– 15:20	Progress of NEV and Environmental Benefits in China *Hewu Wang, Assistant Professor, Tsinghua University, China*
15:20 –15:40	Rare metal constraints for electric vehicles: Global and regional perspectives *Han Hao, Assistant Professor, Tsinghua University, China*
15:40-16:00	Innovation and Developmet of Yutong New Energy Bus *Junjie Hu, Regional Product Manager of New Energy Bus, Zhengzhou Yutong Bus Co.,Ltd.*
16:05	*Summary*

THU Invited Session 3: Advances in Vehicle Safety

14:00 – 16:00
Meeting Room 3
Xijiao Hotel
西郊宾馆第三会议室

Chair: *Liang Li, Professor, Tsinghua University, China*
Chao Yang, Tsinghua University, China

14:00	Opening Remarks
14:00 – 14:20	Road-Friction-Estimation-Based Adaptive Collision Avoidance System *Shuo Cheng, Tsinghua University, China*
14:20 –14:40	Bionics and Their Application in Plug-in Hybrid Electric Vehicle *Congzhi Liu, Tsinghua University, China*
14:40 – 15:00	Learning-based Control of Automotive Powertrains *Yahui Zhang, Sophia University, Japan*
15:00– 15:20	A Modified Lithium-ion Battery State of Charge Estimation Algorithm for Application in Plug-in Hybrid Electric Vehicles *Yong Sun Associate Professor, College of Information Science and Engineering, Ocean University of China, China*
15:20 –15:40	Automatic Steering Control Strategy for Unmanned Vehicles Based on Sliding Mode Control Theory *Pengwei Wang, Shandong University of Technology, China*
15:40 –16:00	Vehicle Stability Control by Coordinating Active Four Wheel Steering and Direct Yaw Moment Control System via Stackelberg Game Theory *Lin Zhao,Chongqing University, China*
16:00	Summary

Friday, July 6

THU Invited Session 4: V2X Based Transportation System and Intelligent Driving **Chair:** *Yi Zhang , Professor, Tsinghua University, China*	**14:00 – 15:40** **Meeting Room 7** **Xijiao Hotel** 西郊宾馆第七会议室
13:40	Opening remarks
13:40 – 14:00	Methodology and Practice for Testing the Performance of Connected and Automated Vehicles in Closed Proving Ground *Xiangmo Zhao, Professor , Chang'an University, China*
1400 –14:20	Ground Traffic Control in the Past Century and Its Future Perspective *Li Li, Professor , Tsinghua University, China*
14:20 – 14:40	Pragmatic Research on Coordinated Control Mechanism for RVs, CVs and AVs Heterogeneous Traffic Flow *Xiaoguang Yang, Professor , the research center for Intelligent Transport Systems at Tongji University , China*
14:40– 15:00	A Survey of Connected Automated Vehicle Perception Mode:From Autonomy to Interaction *Wei ShangGuan, Professor , Beijing Jiaotong University, School of Electronic and Information Engineering, China*
15:00 –15:20	The role and application of V2X in industrial practice *Yizhi Wang, Beijing Nebula Link Tech, China*
15:20-15:40	Summary

THU Invited Session 5: ICVT: Center for Intelligent Connected Vehicles & Transportation Chair: *Jianqiang Wang, Professor, Tsinghua University, China* *Meng Li, Associate Professor, Tsinghua University, China*	**14:00 – 18:00** **Hui Yuan Hall** **Xijiao Hotel** 西郊宾馆荟缘厅
14:00-14:05	Opening remarks
14:05 – 14:25	Robust Semantic Segmentation and Visual Tracking Revisited: From Fully Convolutional Networks to Correlation Filter *Lisheng Jin Professor , Jilin University, China*
14:25 –14:45	Experimental study of Human factors in Automatic Platoon of Trucks *Rencheng Zheng Professor , Dalian University of Technology, China*
14:45 – 15:05	Thinking about Autonomous Vehicle of Special Area *Guizhen Yu Professor , Beihang University, China*
15:05– 15:25	Accelerated Autonomous Vehicle Virtual Testing and Self-Learning *Jian Sun Professor , Tongji University, China*
15:25 –15:45	Modelling Relationship between Truck Fuel Consumption and Driving Behavior *Using Data from Internet of Vehicles* *Zhigang Xu Professor , Chang'an University, China*
15:45-16:00	Moving the Connected and Autonomous Vehicles from the Test Zone to the Public Road *Kang (Kenneth) An, Senior Manager, Shanghai International Automobile City (SIAC)*
16:00 –16:10	*Tea Break*
16:10 –16:30	Overview of intelligent transportation system and connected vehicles *Danya Yao Professor , Tsinghua University, China*
16:30 –16:50	Multiple-object detection and semantic understanding using deep learning *Fuchun Sun Professor , Tsinghua University, China*
16:50 –17:10	Reconfigurable Processor for Deep Learning in Autonomous Vehicles *Shuang Liang ,Tsinghua University, China*
17:10 –17:30	Lane-level Route Planning based on HD map for Autonomous Vehicles *Kun Jiang , Department of Automotive Engineering*
17:30 –17:50	Indirect Shared Control for Driver-Automation Cooperative Driving *Renjie Li ,Tsinghua University, China*
17:50 –18:00	Summary

Friday, July 6

AI for Transportation: Big Data and Smart Transportation in DiDi

14:00 – 18:10
Meeting Room 5
Xijiao Hotel
西郊宾馆第五会议室

Chair: *Henry Liu, VP and Chief Scientist on Smart Transportation, DiDi*

14:00-14:10	Open Remarks *Henry Liu, VP and Chief Scientist on Smart Transportation, DiDi*
14:10-14:30	Smart Forecasting, Dispatching and Pricing for On-Demand Ride Service *Hai Yang, HKUST*
14:30-14:50	Novel AI Application in DiDi *Yan Liu, Chief Scientist of DiDi AI Labs, Associate Professor of USC*
14:50-15:10	How Big-Data-Enabled Smart Transportation Works in DiDi ? *Jinqing Zhu, Principle Engineer, DiDi*
15:10-15:30	DiDi's Innovation and Application in Smart Public Transit *Shiyu Shen, Public Transit Planning Specialist, DiDi*
15:30-15:50	Path Options of Sustainable Urban Transport under New Business Models *Hongyang Wu, Deputy Director, China Urban Sustainable Transport Research Center, China Academy of Transportation Sciences (CATS)*
15:50-16:10	Break Time
16:10-16:30	DiDi Research Outreach Overview: Research Collaboration, Talent Program and Data Sharing *Guobin Wu, Outreach Director, DiDi*
16:30-16:55	The Challenge of EV Powertrain Design for Ride Share Mobility (RSM) & Call for Proposal *Haijiang Liu, Senior Director of Automotive Innovation Center, DiDi*
16:55-17:15	Understanding On-Demand Ride Services: Platform Optimization, Network Evaluation, Behavioral Analysis, and Traffic Prediction *Xiqun Chen, Zhejiang University*
17:15-17:35	Understanding Labor Supply in the Ride-sourcing Market *Yafeng Yin, University of Michigan*
17:35-18:05	GAIA Initiative Panel Moderate: *Guobin Wu, Outreach Director, DiDi* Panelist: *Zhiyuan Liu, Southeast University* *Xiqun Chen, Zhejiang University* *Xiaolei Wang, Shanghai Jiaotong University*
18:05-18:10	Closing Remarks

Practical Application of BIM Technology by Constructing Enterprise

14:00 – 16:00
Jinyuan Hall
Xijiao Hotel
西郊宾馆金缘厅

Chair: *Peng Liu, Deputy Director General of Professional Qualification Authority, Ministry of Transport*

14:00-14:20	Practical Application of BIM Technology by Constructor *Yuhang Huang, Deputy Director of BIM Center, Harbour Road&Bridge Co,. Ltd*
14:20-14:40	Information Technologies in Cement Concrete Component Construction *Wei Yuan, Quality Control Institute, Chang'an University*
14:40-15:00	BIM-based Smart Work Site Solution *Zhengjiang Wang, Senior Consular of Lubansoft*
15:00-15:20	*Tea Break*
15:20-15:40	"Internet+"based Dynamic Quality Control Tech for Rubber Asphalt *Haichao An, Quality Control Institute, Chang'an University*
15:40-16:00	Exploration for the Application of BIM Technology in Highway Project of Constructor *Bo Hu, General Manager of the Department of Highway and Public Work, Lubansoft*

Friday, July 6

Spotlight Session 2 : Infrastructure and Traffic Safety

16:10 – 18:00
Meeting Room 6
Xijiao Hotel
西郊宾馆第六会议室

Chair: *Paul Atchley, Senior Associate Vice President and Dean, University of South Florida*

16:10 – 16:35	How Deterioration and Width of Longitudinal Edgeline Pavement Markings Affect Vehicle Lane Deviation *Kelvin Chang, Assistant Professor, University of Idaho*
16:35 – 17:00	Advancing Usage Based Insurance - A Contextual Driving Risk Modeling and Analysis Approach *Xianbiao Hu, Assistant Professor, Missouri University of Science and Technology*
17:00 – 17:25	Human Factors Considerations in Connective Vehicles *Yingzi Lin, Associate Professor, Northeastern University*
17:25 – 17:50	Why do we drive distracted even though we know it is dangerous? *Paul ATCHLEY, Senior Associate Vice President and Dean, University of South Florida*

Meet the Editors-in-Chief

16:10 – 18:00
Jinyuan Hall
Xijiao Hotel
西郊宾馆金缘厅

Description:

Meeting with EIC session is a tradition of CICTP conference series and over the years it has had a tremendous impact among young scholars and professionals in China by providing them a rare opportunity to interact with EICs of leading transportation journals. This year, the session will focus on two topics: 1) opportunities for young scholars to build connections through journal activities (e.g. how to become an effective reviewer, how to maximize exposure of their papers, how to develop and organize a special issue) and 2) emerging research trend in each journal's focus areas. Confirmed panelists include EICs of Transportation Research Part B, C, D, and E, Journal of ITS, and Transportation.

Panelists:

Hai Yang, EIC of Transportation Research Part B

Yafeng Yin, EIC of Transportation Research Part C

Robert Noland, EIC of Transportation Research Part D

Jason Cao, EIC of Transportation Research Part D

Jiuh-Biing Sheu, EIC of Transportation Research Part E

Kay Axhausen, EIC of Transportation

Asad Khattak, EIC of the Journal of ITS

Zhanping You, Associate Editor, ASCE Journal of Materials in Civil Engineering

Chris Pringle, MILT, Executive Publisher – Transportation Journals, Elsevier

16:10 - 16:20	Opening Remarks and Introduction
16:20 - 16:25	Hai Yang, EIC of Transportation Research Part B
16:25 - 16:30	Yafeng Yin, EIC of Transportation Research Part C
16:30 - 16:35	Zhanping You, Associate Editor, ASCE Journal of Materials in Civil Engineering
16:35 - 16:40	Robert Noland, EIC of Transportation Research Part D
16:40 - 17:05	Q&A
17:05 - 17:10	Kay Axhausen, EIC of Transportation
17:10 - 17:15	Jason Cao, EIC of Transportation Research Part D
17:15 - 17:20	Asad Khattak, EIC of the Journal of ITS
17:20 - 17:25	Jiuh-Biing Sheu, EIC of Transportation Research Part E
17:25 - 17:30	Chris Pringle, Executive Publisher – Transportation Journals, Elsevier
17:25 - 18:00	Q&A

Friday, July 6

Technical Session 1 : Autonomous and Connected Vehicles **Chair:** *Hongzhuan Zhao, Guilin University of Electronic Technology*	**16:10 – 18:00** **Meeting Room 1** **Xijiao Hotel** 西郊宾馆第一会议室
16:10 – 16:23	A Flexible Strategy for Efficient Merging Maneuvers of Connected Automated Vehicles (#448) *Na Chen, Delft University of Technology; Meng Wang , Delft University of Technology; Tom Alkim, Rijkswaterstaat; Bart Van Arem, Delft University of Technology*
16:23 – 16:36	Automated vehicle's behavior decision making using deep reinforcement learning and high-fidelity simulation environment (#477) *Yingjun Ye, Tongji University; Xiaohui Zhang, Tongji University; Jian SUN, Tongji University*
16:36 – 16:49	Vehicle Acceleration Prediction based on Nonlinear Auto Regressive Models with Exogenous Inputs (#604) *Yi Zhang, Tongji University; Ping Sun, Tongji University; Mingyue Liu, Tongji University; Kun Xu, Tongji University*
16:49 – 17:02	Modeling Heterogeneous Traffic of Autonomous Vehicles and Regular Vehicles (#46) *Yangzexi Liu, Tongji Univerisity; Jingqiu Guo, Tongji University; Yibing Wang, Zhejiang University; John Taplin, The University of Western Australia*
17:02 – 17:15	Adaptive Estimation of Object Vehicle Position Using Dynamically Calibrated Feature Points On-line (#50) *Zhong Cao, Tsinghua University; Kun Jiang, Tsinghua; Sijia Wang, Tsinghua University; Shichao XIE, Tsinghua University; Zhongyang Xiao, Tsinghua University; Diange yang, Tsinghua University*
17:15 – 17:28	Eco-Driving at Successive Signalized Intersections under Partially Connected Vehicles Environment (#80) *Xiaotong Xu, Beihang University; Yingrong Lu, Beihang University; Chuan Ding, Beihang University; Guangquan Lu, Beihang University*
17:28 – 17:41	Take-over of Control in Highly Automated Vehicles: A Literature Review (#109) *Wen Shi, Tsinghua University; Bo Wang, Tsinghua University*
17:41 – 17:54	Traffic Information Propagation Mechanism Using Seamless Connectivity Procedure for VCPS (#10) *Hongzhuan Zhao, Guilin University of Electronic Technology; Hang Yue, Johns Hopkins Healthcare Llc; Tianlong Gu, Guilin University of Electronic Technology; Wenyong Li, Guilin University of Electronic Technology; Dan Zhou, Guilin University of Electronic Technology*

Technical Session 2 : Intelligent and Connected Transportation Systems (ITS) **Chair:** *Zhibin Li, Southeast University*	**16:10 – 18:00** **Meeting Room 2** **Xijiao Hotel** 西郊宾馆第二会议室
16:10 – 16:23	Weather Impact on a Bike Sharing System Based on Machine Learning (#743) *Kaixin Cao, Southeast University; Tiejun He, Southeast University*
16:23 – 16:36	Employ of Long-Run Equilibrium Relationship in Multivariate Short-Term Traffic Speed Forecasting (#752) *Qinghui Nie, Yangzhou University; Yang Zhou, University of Wisconsin-Madison; Jingxin Xia, Southeast University; Shejun Deng, Yangzhou University; Xiaoxuan Chen, University of Wisconsin-Madison*
16:36 – 16:49	Drivers' Route Choice Behavior under Pre-Trip Information Systems: A Case Study of Nanjing City (#760) *Ling Shen, Southeast University; Tiezhu Li, Southeast University; Man Long, Southeast University; Ningning Song, Jinan Urban Transport Research Center*
16:49 – 17:02	A Novel Road Traffic Risk Modeling Approach Based on the Traffic Safety Field Concept (#417) *Xunjia Zheng, Tsinghua University; Jiawei Wang, Tsinghua University; Jianqiang Wang, Tsinghua University*
17:02 – 17:15	A Car Face Parts Detection Algorithm Based on Faster R-CNN (#640) *Zhihao Zhou, Sun Yat-Sen University; Xiying Li, Sun Yat-Sen University; Mingkai Qiu, Sun Yat-Sen University*
17:15 – 17:28	Driver Motion Detection using Online Sequential Learning (#682) *Qian Wang, Northwestern Polytechnical University; Yan Yang, Northwestern Polytechnical University; Jingdong Chen, Northwestern Polytechnical University; Yan Yang, Northwestern Polytechnical University; Jibo He, Wichita State University; Hengfen Zuo, Tsinghu University; Wei Zhang, Tsinghua University*
17:28 – 17:41	The Research on Sampling Frequency and Minimum Coverage of Probe Vehicle Based on Velocity Estimation (#716) *Lan Cheng, Beijing University of Technology; Yangzhou Chen, Beijing University of Technology; Qingyang Xia, Beijing University of Technology; Zhuo Yin; Beijing University of Technology*

17:41 – 17:54	Landmark-Based Visual Positioning System for Automatic Guided Vehicle (#534) *Bijun Li, Tsinghua University; Mingyao Qi, Tsinghua University; Kai Zhang, Tsinghua University; Bokui Chen, Tsinghua University; Yi Zhang, Tsinghua University; Jun Zhou, National University of Singapore; Lixin Miao, Tsinghua University*

Technical Session 3 : Public Transit **Chair:** *Xiaolei Ma, Beijing Beihang University*	**16:10 – 18:00** **Meeting Room 3** **Xijiao Hotel** 西郊宾馆第三会议室
16:10 – 16:23	An Optimization Model for Route Choice of Demand Responsive Connector (#145) *Jianan Wang, Southeast University; Wenquan Li, Southeast University; Yunxue Lu, Southeast University; Zhiwen Zhu, Southeast University*
16:23 – 16:36	Market Segmentation for Customized Bus in China Using Cluster Analysis (#158) *Yuxuan Wang, Southeast University; Wei Wang, Southeast University*
16:36 – 16:49	Modeling spatial-temporal patterns of bus delays at and between stops using AVL and APC data and semi-Markov techniques (#172) *Ying Song, University of Minnesota*
16:49 – 17:02	Relationship between Information Quantity of Bicycle Guide Sign and Its Cognition (#186) *Hui Peng, Chang'an University; Tingting Shao, Chang'an University; Yan Pei, Chang'an University; Zhanghao Hu, Chang'an University*
17:02 – 17:15	The Network Design Model of Customized Buses in Diversified Operation Mode (#819) *Zhujie Zhang, South China University of Technology; Yucong Hu,South China University of Technology; Xu Chen,Fuzhou Metro Group Co. Ltd*
17:15 – 17:28	Study on Pedestrian Crossing Capacity Models of at Signalized Intersections in Typical Commercial Area (#173) *Bing Li, Inner Mongolia University; Jin-Xin Cao, Inner Mongolia University*
17:28 – 17:41	Study on Prediction Method of Bicycle Passenger Flow based On Data Information of Mobike (#224) *Hui Peng, Chang'an University; Na Zhang, Chang'an University; Jinnan Zheng, Chang'an University; Jingcai Yu, Chang'an University; Tian Ding, Chang'an University*
17:41 – 17:54	Study on Railway Passenger Transport Hub and Urban Public Transport Connection-A Case Study of Xi'an North Railway Station (#139) *Qi Guo, Chang'an University; Jingshuai Yang, Chang'an University; Qingkai Liu, Chang'an University; Jian Sun, Chang'an University; Pengzi Chu, Chang'an University*

Technical Session 4 : Rail Operations, Management and Control **Chair:** *Zhanbo Sun, Southwest Jiaotong University*	**16:10 – 18:00** **Meeting Room 7** **Xijiao Hotel** 西郊宾馆第七会议室
16:10 – 16:23	Analyzing Capacity Utilization and Travel Patterns of Chinese High-Speed Trains: An Explotary Data Mining Approach (#208) *Fanxiao Liu, Southwest Jiaotong University; Zhanbo Sun, Southwest Jiaotong University; Peitong Zhang, Southwest Jiaotong University; Qiyuan Peng, Southwest Jiaotong University; Qingjie Qiao, Beijing-Shanghai High Speed Railway Co. Ltd*
16:23 – 16:36	Architecture of Hardware-in-the-Loop Simulation Platform for High-Speed Maglev Operation Control System based on HLA (#250) *Yijun Chen, Tongji University; Huahua Zhao, Tongji University; Yi Yu, Tongji University; Wei Nai, Tongji Zhejiang College*
16:36 – 16:49	Battery Charging and Discharging Management Method on High Speed Maglev Train (#522) *Zhiming Liao, Tongji University; Jiguang Yue, Tongji University; Huahua Zhao, Tongji University*

16:49 – 17:02	Collaborative Optimization of Stochastic Seat Allocation for Passenger Rail Transportation and Train Formation Scheme (#167) *Zhen-Ying Yan, Beijing Jiaotong Unversity; Bao-Ming Han, Beijing Jiaotong Unversity; Xiao-Juan Li, Inner Mongolia University; Ya-Qiong Zhao, Inner Mongolia University*
17:02 – 17:15	Design of the Relative Positioning System for High-Speed Maglev Train Based on the Technology of Electromagnetic Induction and Tooth-slot Counting (#425) *Huahua Zhao, Tongji University; Yijun Chen, Tongji University; Zhiming Liao, Tongji University; Yi Yu, Tongji.Edu.Cn*
17:15 – 17:28	Fuzzy Generalized Predictive Control Algorithm of Train Lateral Semi-active Suspension Based on GPC (#447) *Guang-Jun Li, Jiangsu University of Technology; Ru-Jia Wang, Jiangsu University of Technology*
17:28 – 17:41	Modeling of Passenger's Time-Space Path Estimation in Urban Rail Transit Network Based on Mobile Signaling (#195) *Qin Luo, Shenzhen Technology University; Tao Xu, Shenzhen University; Huazhen Lin, , Shenzhen University; Xiongfei Zhang, Shenzhen Technology University;*
17:41 – 17:54	Research on the System Mode Selection of Airport Rail Transit (#283) *Yuan Jiang,Tongji University; Xiaohong Chen, Tongji University; Yingyao Qiao, Tongji Architectural Design (Group) Co. Ltd.*

Technical Session 5 : Road Traffic Operations, Management, and Control **Chair:** *Yanyan Chen, Beijing University of Technology*	**16:10 – 18:00** **Meeting Room 8** **Xijiao Hotel** 西郊宾馆第八会议室
16:10 – 16:23	An AHP-based Evaluating Model to Evaluate Intelligent Vehicle Detection Technologies in Street Parking Scenario (#331) *Xuejin Wan, Beijing Transportation Infromation Center; Shangfo Huang, Beihang University; Bowen Du, Beihang Univeristy; Rui Sun, Beijing Transportation Information Center; Jiong Wang, Beijing Transportation Information Center; Guangyu Xin, Yunxingyu Technology Ltd*
16:23 – 16:36	Analysis of Car Commuter's Travel Time Reliability in Beijing (#368) *Jiaxian Li, Beijing University of Technology; Yanyan Chen, Beijing University of Technology; Yang Wang, Beijing University of Technology ; Zhixian He, Beijing University of Technology; Zhiling Han, Beijing University of Technology*
16:36 – 16:49	How Deterioration and Width of Longitudinal Edgeline Pavement Markings Affect Vehicle Lane Deviation (#52) *Kevin Chang, University of Idaho*
16:49 – 17:02	Investigation of Multi-objective Freeway Variable Speed Limit Control Strategies (#285) *Huixuan Ye, Fuzhou University; Jie Fang, Fuzhou University; Lili Tu, Fuzhou University; Xiangyu Luo, Fuzhou University*
17:02 – 17:15	Method on Arterial Coordination Control of Two Phase Signalized Intersection (#133) *Jian Lu, Traffic Management Research Institute of Public Security Ministry; Qiang Fu,Traffic Management Research Institute of Public Security Ministry; Chen Qian, Traffic Management Research Institute of Public Security Ministry; Yong-Chang Zu, Traffic Management Research Institute of Public Security Ministry*
17:15 – 17:28	Optimal Parameter Settings for Video Based Real-time Traffic Signal Control (#43) *Qiang Fu, Traffic Management Research Institute of The Ministry of Public Security; Jian Lu, Traffic Management Research Institute of The Ministry of Public Security; Jin-Gang Gu, Traffic Management Research Institute of The Ministry of Public Security; Jian-Wei Hu, Traffic Management Research Institute of The Ministry of Public Security; Yong-Chang Zu, Traffic Management Research Institute of The Ministry of Public Security;*
17:28 – 17:41	Study on Traffic Demand Management of Urban Freeway based on Dynamic Toll Adjustment (#287) *Yinli Jin, Chang'an University; Ming Li, Chang'an University; Li Li, Chang'an University*
17:41 – 17:54	Using Long-Short Term Memory Model to Predict the Short-Term Traffic Volume based on Loop Detector Big Data (#69) *Xiao-Feng Liu, Tianjin University of Technology and Education; Li-Mei Gao, Tianjin University of Technology and Education; Chen-Fu Liu, Tianjin University of Technology and Education; Hai-Xing Du, Tianjin University of Technology and Education; Xi-Tong Zhang, Tianjin University of Technology and Education;*

Friday, July 6

Technical Session 6: Traffic Safety, Security and Emergency Responses **Chair:** *Chen Feng, Tongji University*	**16:10 – 18:00** **Meeting Room 11** **Xijiao Hotel** 西郊宾馆第十一会议室
16:10 – 16:25	Analysis of Relationship Between Traffic Crashes and Driving Behavior Factors Using Probe Vehicle Data (#622) *Yu Ha Kwon, Keimyung University; Dong Uk Kim, Keimyung University; Oh Hoon Kwon, Keimyung University; Shin Hyoung Park, Keimyung University*
16:25 – 16:40	Estimation of the blocking duration of accidents on highways using the ordered probit model (#553) *Se Yeon Kim, Keimyung University; Shin Hyoung Park, Keimyung University; Oh Hoon Kwon, Keimyung University; Jienki Synn, Keimyung University*
16:40 – 16:55	Game Analysis of Pedestrian-vehicle Interactive State on Efficiency at Signalized Intersection (#571) *Yu Li, Chang'an university; guo-hua liang, Chang'an University; Rui Li, Chnag'an University*
16:55 – 17:10	Research of Microscopic Traffic Parameters by Fractal Multi-step Prediction Model (#600) *Longhai Yang, School of Transportation Science and Engineering Harbin Institute of Technology; Wenchao Ji, Harbin Institute of Technology; Xiqiao Zhang, Harbin Institute of Technology*
17:10 – 17:25	Study on Driver Attention Allocation Under Common Driving Behaviors (#24) *Yuan-Yuan Ren, Jilin University; Xian-Sheng Li, Jilin University; Xue-Lian Zheng, Jilin University*
17:25 – 17:40	Study on individual driving style based on driving behavior characteristics (#37) *Yuan-Yuan Ren, Jilin University; Xian-Sheng Li, Jilin University; Xue-Lian Zheng, Jilin University*
17:40 – 17:55	Utilizing Ensemble Learning Methods in Real-time Traffic Crash Prediction (#3) *Mengdi Xue, Tongji University; Jie Huang, Tongji University; Zhen Gao, Tongji University; Ping Sun, Tongji University*

Technical Session 7: Traffic Safety, Security and Emergency Responses **Chair:** *Qiang Zeng, South China University of Technology*	**16:10 – 18:00** **Meeting Room 12** **Xijiao Hotel** 西郊宾馆第十二会议室
16:10 – 16:25	Analyzing the Characteristics of Crashes on Freeway Based on Three-phase Traffic Theory (#155) *Bo Yang, Southeast University; Pan Liu, Southeast University; Chengcheng Xu, Southeast University*
16:25 – 16:40	Driving Risk Evaluation Based on Multi-dimensional Data (#413) *Zixuan Gui, Tsinghua University; Hongxin Chen, Tsinghua University; Zi Yang, Tsinghua University; Xin Pei, Tsinghua University; Zuo Zhang, Tsinghua University*
16:40 – 16:55	Evaluation of Vehicle-Road Suitability Analysis on Highway by Accident OR Comparison (#526) *Shu-Zhan Hou, University of Jinan; Yu-Long He, Beijing University of Technology; Xing-Jian Bao, Xi'an City Planning & Design Institute; Na Cui, University of Jinan*
16:55 – 17:10	Latent class analysis of accident risk in telematics-based insurance: Evidence from Beijing (#658) *Wen Jin, Tsinghua University; Hai Jiang, Tsinghua University*
17:10 – 17:25	Research on the Effect of Subway Stations Guide Rails on Passenger Emergency Evacuation (#796) *Lan Yang, Kunming University of Science and Technology; Min He, Kunming University of Science and Technology; Wenbing Shui, Kunming University of Science and Technology; Yangyang Li, East China Architecture Design and Research Institute Co. Ltd*
17:25 – 17:40	The Optimal Location of Advance Guide Signs on Freeway Exits Based on Cellular Automaton (#757) *Miao He, Southeast University; Xiangyu Xu, Shanghai Municipal Engineering Design Institute (Group) Co. Ltd; Fei Chen, Southeast University*
17:40 – 17:55	Traffic Safety Evaluation Method of Arterial Highway in Suburban Areas based on Traffic Conflicts (#563) *Chenxiao Zhang, Southeast University; Yongfeng Ma, Southeast University; Yanan Yu, Southeast University*

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Technical Session 8 : Traffic Safety, Security and Emergency Responses **Chair:** *Jinshuan Peng, Chongqing Jiaotong University*	**16:10 – 18:00** **Meeting Room 15** **Xijiao Hotel** 西郊宾馆第十五会议室
16:10 – 16:25	Analysis of the Key Factors of Urban Traffic Anomie Behavior (#803) *Guo-Hua Liang, Chang'an University; Ge Li, Chang'an University; Xiao-Xia Hu, Chang'an University; Yu-Jie Yin, Chang'an University; Xiao-Hong Liu, Chang'an University*
16:25 – 16:40	A Wide-and-Deep Learning Model of Travel Mode Detection (#375) *Chenfeng Xiong, University of Maryland; Di Yang, University of Maryland; Ya Ji, University of Maryland; Liang Tang, University of Maryland; Lei Zhang, University of Maryland*
16:40 – 16:55	Adapting the Propensity for Angry Driving Scale for Application in China (#797) *Lixin Guo, Southeast University; Wenbing Jing, Southeast University; Yubing Zheng, Southeast University; Yang Ma, Southeast University; Jianchuan Chen, Southeast University*
16:55 – 17:10	Experimental Study on Dynamic Visual Search Behavior of Drivers on Mountain Roads (#824) *Jinshuan Peng, Chongqing Jiaotong University; Lei Zhang, Chongqing Jiaotong University; Jin Xu, Chongqing Jiaotong University; Yiming Shao, Chongqing Jiaotong University*
17:10 – 17:25	Interactive Effect of Circadian Rhythm and Time on Task on Driver Fatigue Level (#857) *Zhe Wang, Wuhan University of Technology; Hui Zhang, Wuhan University of Technology; Qi Zhang, Wuhan University of Technology; Siyao Li, Wuhan University of Technology*
17:25 – 17:40	Investigating the Factors influencing Driving Risk Using Driving Experimental Data (#856) *Man Yang,Wuhan University of Technology; Chaozhong Wu, Wuhan University of Technology; Wenhui Chu, Wuhan University of Technology; Hui Zhang, Wuhan University of Technology*
17:40 – 17:55	Road Marking Crossing Behaviors of Electric Bicycles on Urban Road Sections (#771) *Wen-Hui Zhou, Chang'an University; Hui-Ting Cheng, Chang'an University; Yan Li, Chang'an University; Wen-Bin Hu, Ltd of Gansu Road and Bridge Construction Group; Li-Li Wang, Chang'an University*

Technical Session 9 : Transportation Energy, Environment and Sustainability **Chair:** *Yusheng Ci, Harbin university of Technology*	**16:10 – 18:00** **Meeting Room 18** **Xijiao Hotel** 西郊宾馆第十八会议室
16:10 – 16:25	A Predictive Control Method for Automotive Selective Catalytic Reduction Systems (#111) *Yao Ma, Ohio State University; Junmin Wang, Ohio State University*
16:25 – 16:40	A Real-time Vehicle Emission Prediction Model for Freeway Segments Based on Trajectory Data (#738) *Tu Yu, Southeast University; Wei Wang, Southeast University; Chengcheng Xu, Southeast University*
16:40 – 16:55	An Optimization Model of Short Lane at Intersection Based on Vehicle Specific Power (#767) *Yalan Hao, Chang'an University; Hong Chen, Chang'an University*
16:55 – 17:10	Impacts of Technological Progress, Structural Adjustment on Energy Related Carbon Emissions Intensity in Logistics Industry: Empirical Research on Beijing-Tianjin-Hebei Region (#728) *Shi-Qing Zhang, Chang'an University; Wen-Long Zheng, Chang'an University; Jian-Wei Wang, Chang'an University; Jie-Gao, Chang'an University*
17:10 – 17:25	Large-Scale Automated Extraction of Built Environment Characteristics Related to Pedestrian Safety at Urban Intersections Based on Internet Open Location-Based Service (#708) *Shengxi Luo, Tsinghua University; Yuhuan Zhang, Tsinghua University; Jing Wang, Beijing University of Civil Engineering and Architecture; Huapu Lu, Tsinghua University*
17:25 – 17:40	Modeling Industry Compliance and Market Dynamics of the New Energy Vehicle Dual-credit Policy (#469) *Shiqi Ou, Oak Ridge National Laboratory; Zhenhong Lin, Oak Ridge National Laboratory*

Friday, July 6

Technical Session 10 : Transportation Policy, Planning and Modeling **Chair:** *Lingxuan Zhang, Southwest Jiaotong University*	**16:10 – 18:00** **Zhongbei Hall** **Xijiao Hotel** 西郊宾馆中北厅
16:10 – 16:23	A Bi-Level Model of Dynamic Lane-Use and Traffic Signal for Intersections (#613) *Ying Zeng, Guangzhou Urban Planning & Design Survey Research Institute; Yingying Ma, South China University of Technology*
16:23 – 16:36	Analysis of influence of urban block pattern on traffic performance using simulation techniques (#473) *LINGXUAN ZHANG, Southwest Jiaotong University; Monica Menendez, Swiss Federal Institute of Technology Zurich; Bin Shuai, School of Transportation and Logistics, Southwest Jiaotong University*
16:36 – 16:49	Construction and Application Evaluation of The Highway Intelligent Traffic Management System (#691) *Kaifan Dong, Traffic Management Research Institute of Ministry of Public Security; Chunfang Feng, Traffic Management Research Institute of Ministry of Public Security; Xingzhi Qi, Traffic Management Research Institute of Ministry of Public Security; Biao Li, Traffic Management Research Institute of Ministry of Public Security*
16:49 – 17:02	Improving User Equilibrium via Public Service Advertising (#339) *Chenlan Wang, Beihang University; Yulan Fu, Beihang University*
17:02 – 17:15	Influence of electronic-docking stations on China's dockless bikesharing programs: Evidence from Beijing (#657) *Xiaofang Yang, Tsinghua University; Hai Jiang, Tsinghua University*
17:15 – 17:28	Multiple Equilibrium Behaviors Considering Human Exposure to Vehicular Emissions (#259) *Yu Tan, Southwest Jiaotong University; Zhanbo Sun, Southwest Jiaotong University; Jie Zhang, Southwest Jiaotong University; Rui Ma, University of California, Davis; Xia Yang, SUNY Polytechnic Institute*
17:28 – 17:41	Research on Thoughts and Countermeasures of Transportation Guide the Development of a New Type of Urbanization (#404) *Xianguang Wang, China Academy of Transportation Sciences; Shuo Chen, China Academy of Transportation Sciences*
17:41 – 17:54	Study on the Mode of Lane Changing for Turning in Urban Road (#435) *Shiqiang Cheng, Hefei University of Technology; Liyang Wei, Hefei University of Technology; Xuelan Ma, Hefei University of Technology; Jianfeng Shen, Hefei University of Technology; Jian Wang, Hefei University of Technology*

Saturday, July 7

Plenary Session 2: Frontiers in Transportation Data Analysis and System Management **Chair:** *Zhen Qian, Assistant Professor, Carnegie Mellon University*	**08:00 – 09:50** **Ginkgo Hall** **Xijiao Hotel** 西郊宾馆银杏大厅
08:00 – 08:25	Inferring Passenger Waiting Time from Taxi GPS Trajectories *Marco Nie, Professor, Northwestern University*
08:25 – 08:50	Developing Communication- and Connectivity-Driven Transportation Systems *David Noyce, Professor and Director, University of Madison-Madison*
08:50 – 09:15	Enhancing Transportation Research with Machine Learning *Yinhai Wang, Professor and Director of PacTrans and STAR Lab, University of Washington*
09:15 – 09:40	Thinking about Resilience of our Transportation Systems in an Intelligent and Connected World *Elise Miller-Hooks, Professor, George Mason University*

Spotlight Session 3: New Data and Techniques for Transportation System Analysis **Chair:** *Heng Wei, Professor, University of Cincinnati*	**08:00 – 09:50** **Meeting Room 6** **Xijiao Hotel** 西郊宾馆第六会议室
08:00 – 08:25	Error Estimation for Networked Sensor Data *Yueyue Fan, Professor, University of California at Davis*
08:25 – 08:50	Social Media Data Analysis in Transportation Systems *Qing He, Professor, University of California at Davis*
08:50 – 09:15	Detection and tracking of pedestrians and vehicles using roadside LiDAR sensors *Hongchao Liu, Professor, Texas Tech University*
09:15 – 09:40	C-Mean Image Segmentation for Extracting Axle-based Vehicle Classification Data *Heng Wei, Professor, University of Cincinnati*

Policy Dialogue **Chair:** *Peng Liu, Deputy Director General, Professional Qualification Authority, Ministry of Transport*	**08:30 – 11:35** **Jinyuan Hall** **Xijiao Hotel** 西郊宾馆金缘厅
8:30-8:35	*Opening Remarks* *Chair*
8:35-8:55	*Giving Full Play to the New-type Think Tank in Transforming China into a Strong Transport Power* *Wei Zhou, Chief Engineer, MOT*
8:55-9:15	*The Utility of Today's Infrastructure for Tomorrow* *C. Michael Walton, NAE member Policy and Legislation on Automated Drive*
9:15-9:35	*Policy and Legislation on Automated Drive* *Song Pang, Director General of the Department of Science and Technology, MOT*
9:35-9:55	*TSMO Implementation* *Mathew Jonathan Neeley, Chief Engineer of Washington DOT*
9:55-10:15	*Tea Break*
10:15-10:35	*Practice Sharing of Enterprise Innovative Development* *Dapeng Li, CEO of Jiangsu Transportation Research Institute Company Limited*
10:35-10:55	TBC Representative from Beijing Transportation Commission
10:55-11:15	*The New Role of Private Enterprise in the Campaign of Making China a Strong Transport Power in Today's China* *Zhengsheng He, Co-founder and General Manager of Harbour Road&Bridge Co.,LTD*
11:15-11:35	*Building Green Transport Infrastructure for Clear Waters and Luxuriant Mountains* *Yong Qi, President of Tianjin LVYIN Landscape & Ecology Construction Co., Ltd*

Saturday, July 7

Traffic Signal Control and Simulation Forum

9:00 – 17:00
Meeting Room 5
Xijiao Hotel
西郊宾馆第五会议室

Chair: *Ruimin Li, Associate Professor, Tsinghua University, China*
Fusheng Zhang, Researcher, North China University of Technology

9:00 - 9:10	Open remarks
9:10 - 9:35	Data Driven Traffic Signal Performance Evaluation, Diagnosis, and Optimization *Henry Liu, Chief Scientist, DiDi, Professor, University of Michigan, USA*
9:35 - 10:00	Real-Time Traffic Management Decision Support with Integrated Behavior and Network Simulation *Lei Zhang, University of Maryland, College Park, USA*
10:00 - 10:25	Real-time Performance Evaluation of the Signal System Using Field Data *Ping Yi, University of Akron, USA*
10:25 - 10:50	A Strategy for Timing Oversaturated Intersections *Hongchao Liu, Texas Tech University, USA*
10:50 - 11:15	Discussion on the Development of Urban Traffic Control System Technology *Yongjin Zhao, Traffic Management Research Institute of the Ministry of Public Security, China*
11:15 - 11:40	Signal Control and Traffic Flow Detection *Mr. Fusheng zhang, Researcher, North China University of Technology, China*
13:40	Opening remarks
13:40 - 14:05	Development and Application of Microscopic Traffic Simulation Software *Jianping Wu, Tsinghua University, China*
14:05 - 14:30	A Physical Arterial Signal Simulation System Targeting Education and Research *Zong Tian, University of Nevada, Reno, USA*
14:30 - 14:55	Traffic Signal Control Basic Concepts and Design Specification Keping Li, Tongji University, China
14:55 - 15:20	The Prospects of Traffic Signal Control in Beijing *Mr. Yongqiang Fan, Senior Engineer/Section chief, Beijing Traffic Management Bureau, China*
15:20 - 15:45	Technology and Application of KeliVS Signal Control System *Zijun Liang, Anhui Keli Information Industry Co., Ltd., Deputy Chief Engineer, China*
15:45 - 16:10	Urban Traffic Integrated Simulation System for Signal Priority *Xiaojian Nie, Chief Engineer, DiDi, China*
16:10 - 16:35	Traffic Signal Control Performance Evaluation and Optimization Based on Multi-source Data *Associate Ruimin Li, Tsinghua University China*
16:35	Summary

Working Meeting of Committee of Youth Scientific & Technological Professionals (CYSTP)

10:10 – 12:00
Huiyuan Hall
Xiaojiao Hotel
西郊宾馆荟缘厅

Chair: *Pan Liu, Professor, Southeast University, China*
Chaozhong Wu, Professor, Wuhan University of Technology, China

10:10 – 10:30	*Work summary and plan of CYSTP* *Pan Liu,Secretary general of CYSTP, Professor, Southeast University, China*
10:30 – 10:45	*Work plan for the sub-committee of CYSTP* *Min Yang, Professor, Southeast University, China*
10:45 – 11:00	*Work plan for the technical session of CYSTP at CICTP 2019* *Zhiyuan Liu, Professor, Southeast University, China*
11:00 – 11:15	*Future work suggestions for the CYSTP* *Di Zhang, Professor, Wuhan University of Technology, China*
11:15 – 11:40	Preparation for the 13th national conference of young scholars in the field of transportation *Yulong Pei, Professor, Dean of Transportation School, Northeast Forestry University China*
11:40 – 12:00	Summary and discussion *Chaozhong Wu, Director of CYSTP, Professor, Wuhan University of Technology, China*

Saturday, July 7

Plenary Session 3 : Transportation and Its Key Role in Economic and Social Issues **Chair:** *Xiaokun (Cara) Wang, Associate Professor, Rensselaer Polytechnic Institute, USA*	**10:10 – 12:00** **Ginkgo Hall** **Xijiao Hotel** 西郊宾馆银杏大厅
10:10 – 10:35	Freight Efficient Land Uses: Basic Concepts and Economic and Technological Trends *Jose Holguin-Veras, William H.Hart Chair Professor, Rensselaer Polytechnic Institute*
10:35 – 11:00	Solving large-scale one-commodity pickup and delivery problems and application to bike rebalancing *Yanfeng Ouyang, Professor, University of Illinois at Champaign*
11:00 – 11:25	Syncretic value joint creation via trade-in for upgrade & reverse logistics *Jiuh-Biing Sheu, Professor, National Taiwan University*
11:25 – 11:50	Optimal Policies For Greenhouse Gas Emission Minimization Under Multiple Agency Budget Constraints In Pavement Management *Samer Madanat, Dean of Engineering, New York University at Abu Dhabi*

Spotlight Session 4 : Innovation in Multimodal Transportation System **Chair:** *Yu Zhang, Immediate Former President of COTA; University of South Florida*	**10:10 – 12:00** **Meeting Room 6** **Xijiao Hotel** 西郊宾馆第六会议室
10:10 – 10:35	Developing a Systematic Approach to Identifying and Ranking Freeway Bottlenecks Using Vehicle Probe Data *Wei Fan, Associate Professr, University of North Carolina Charlotte*
10:35 – 11:00	A framework for the optimization of terminal airspace operations in Multi-Airport Systems *Ke Han, Lecturer, Imperial College London*
11:00 – 11:25	Selection and Scheduling of Interrelated Improvements in Transportation Systems *Paul Schonfeld, Professor, University of Maryland*
11:25 – 11:50	Improving Operational Performance of Regional Airport Systems *Yu Zhang, Associate Professor, University of South Florida*

Technical Session 11 : Autonomous and Connected Vehicles **Chair:** *Wei Fan, University of North Carolina at Charlotte*	**10:10 – 12:00** **Meeting Room 1** **Xijiao Hotel** 西郊宾馆第一会议室
10:10 – 10:23	Autonomous and Connected Vehicles: The capacity of mixed traffic flow at signalized intersection with the ACDA-MTD model (#273) *Hanchu Li, Southeast University; Jian Zhang, Southeast University ; Fangfang Zheng, Southwest Jiaotong University; Linchao Li, Southeast University; Bin Ran, Southeast University*
10:23 – 10:36	Cellular Automata for Modeling Safety Issues in Mixed Traffic of Conventional and Autonomous Vehicles (#449) *Youran Liu, Tsinghua University; Xi Lin, Tsinghua University; Fang He, Tsinghua University; Meng Li, Tsinghua University*
10:36 – 10:49	Cooperative Driving Control Algorithm at Non-Signalized Crossings Under Condition of Internet-Connected Vehicles (#855) *Wenjuan E, Soochow University; Xiang Wang, Soochow University; Ying Jing, Beihang University; Yanchao Ding, Tsinghua University*
10:49 – 11:02	Cooperative Merging in Mixed Traffic Flow (#233) *Zhanbo Sun, Southwest Jiaotong University; Tianyu Huang, Southwest Jiaotong University*

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11:02 – 11:15	Data Mining and Simulation of Vehicle-pedestrian Crashes for the Evaluation of Collision Avoidance Strategy of Intelligent Vehicle (#197) *Quan Yuan, Tsinghua University; Xunjia Zheng, Tsinghua University; Jianqiang Wang, the State Key Laboratory of Automotive Safety and Energy, Tsinghua University; Yibing Li, Tsinghua University*
11:15 – 11:28	Modeling Market Penetration of Fully Automated Vehicles (#629) *Zhenhong Lin, Oak Ridge National Laboratory; Fei Xie, Oak Ridge National Laboratory*
11:28 – 11:41	MODELING MERGING BEHAVIOR JOINING A COOPERATIVE ADAPTIVE CRUISE CONTROL PLATOON (#643) *jia hu, Tongji University*
11:41 – 11:54	VANETs LTE-V Performance Evaluation Using 3D Geometry-stochastic Channel Model (#430) *Yi Gong, Beijing University of Post and Telecommunication; Shengchu Wang, Beijing University of Post and Telecommunication; Yupeng Zhang, Beijing University of Post and Telecommunication; Feng Luo, Beijing University of Post and Telecommunication; Lin Zhang, Beijing University of Post and Telecommunication*

Technical Session 12 : Logistics and Freight Transportation

10:10 – 12:00
Meeting Room 2
Xijiao Hotel
西郊宾馆第二会议室

Chair: *Jingshuai Yang, Chang'an University*

10:10 – 10:25	Forecast and Analysis of Freight Volume in Ningxia Based on GM (1, 1) Model (#264) *Wenjie Zheng, Chang'an University; Chaoyue Wen, Chang'an University; Yongmei Xue, Chang'an University; Qichen Wu, Chang'an University;*
10:25 – 10:40	Inspection Strategy Design of Toll-Free Logistics Vehicle in China Freeway: Case Study in Shaanxi Province (#225) *Yinli Jin, Chang'an University; Wenlei Xiong, Chang 'An University; Li Li, Chang'an University*
10:40 – 10:55	Research on Railway Freight Volume Prediction Based on ARIMA Model (#240) *Jianyou Zhao, Chang'an University; Jing Cai, Chang'an University; Wenjie Zheng, Chang'an University*
10:55 – 11:10	Research on Route Optimization of Pure Electric Vehicle under Joint Distribution Mode in City (#98) *Bing-Shan Ma, Chang'an University; Da-Wei Hu, Chang'an University; Qian Sun, Chang'an University*
11:10 – 11:25	Simulation Study on Network Stability of Short Cycle Product Supply Chain Based on Netlogo (#170) *Jing Nie, Chang'An University; Hui Hu, Chang'An University; Xinying Wang, Chang'An University; Chaoran Xu, Chang'an University*
11:25 – 11:40	The Co-integration Analysis of Integrated Freight Transport and Economic Indicators (#545) *Ya-Ping Zhang, Harbin Institute of Technology; Yue-E Gao, Harbin Institute of Technology; Jia-Yuan Min, Harbin Institute of Technology; Shou-Ming Qi, Harbin Institute of Technology*
11:40 – 11:55	Three-dimensional Packing Problems of Multi-unloading Point based on Hybrid Genetic Simulated Annealing Algorithm (#41) *Huifen Cui, Chang'an University; Jiayu Xu, Chang'an University;Teng Ma, Chang'an University;Jingshuai Yang, Chang'an University; Na Liang, Chang'an University;*

Technical Session 13 : Public Transit

10:10 – 12:00
Meeting Room 3
Xijiao Hotel
西郊宾馆第三会议室

Chair: *Fang He, Tsinghua University*

10:10 – 10:23	A Methodology for Predicting Taxi Development Scale in Small and Medium-sized City (#765) *Rui Li, Southeast University; Min Yang, Southeast University; Jiankun Du, Southeast University; Guoqiang Li, Southeast University; Jingxian Wu, Southeast University*
10:23 – 10:36	Analysis of Influencing Factors on Satisfaction Degree for Urban Public Transit Service Based on Structural Equation Model (#180) *Bing Li, Inner Mongolia University; Jin-Xin Cao, Inner Mongolia University*

Saturday, July 7

10:36 – 10:49	Comparing Effective Path Searching Algorithms for Multi-modal Public Transport Super-network (#245) *Wei Wang, Southeast University; Lixia Wu, Southeast University; Haoyang Ding, Southeast University; Min Fu, Southeast University*
10:49 – 11:02	Examining the Time Use Patterns of Users of Public Bike System in Nanjing based on Smart Card Data (#381) *Mingzhuang Hua,Southeast University; Xuewu Chen, Southeast University; Long Cheng ,Southeast University; Wendong Chen ,Southeast University; Da Lei, Southeast University*
11:02 – 11:15	Managing Single-Line Transit Operations with Capacity Constraint and Passenger Arrival Order (#300) *Haibo Ma, Tsinghua University; Xi Lin, Tsinghua University; Fang He, Tsinghua University; Meng Li, Tsinghua University*
11:15 – 11:28	Route Choice Model for Urban Rail Transit Based on Cumulative Prospect Theory (#228) *Jiefei Zhang, Southeast University; Gang Ren, Southeast University; Qi Cao, Southeast University*
11:28 – 11:41	Simulation-based Method for Seat Inventory Control Optimization under Heterogeneous Customer Behavior: A Case Study of the China Railway (#319) *Wuyang Yuan, Beijing Jiaotong University; Lei Nie, Beijing Jiaotong University; Huiling Fu, Beijing Jiaotong University; Xin Wu, Beijing Jiaotong University; Yu Ke, Beijing Jiaotong University*
11:41 – 11:54	Study on Scheduling Model Based on Temporal and Spatial Characteristics of Public Bicycles (#206) *Ya Qiong Zhao, Inner Mongolia University; Jin Xin Cao, Inner Mongolia University*

Technical Session 14 : Rail Operations, Management and Control **Chair:** *Di Wang, Chang'an University*	**10:10 – 12:00** **Meeting Room 7** **Xijiao Hotel** 西郊宾馆第七会议室
10:10 – 10:22	Analysis of Dynamic Characteristics of Elastic-bending Turnout for Maglev Transportation (#247) *Zhiwei Zhu, Tongji University; Feng Ye, Tongji University; Guofeng Zeng, Tongji University; Zhihui Wu, Crrc Zhuzhou Locomotive Co. Ltd; Laisheng Tong, Crrc Zhuzhou Locomotive Co. Ltd*
10:22 – 10:34	Comprehensive Technical Monitoring for Maglev Structure during the Metro Shield Tunnel Undercrossing the Shanghai Maglev Protected Area (#205) *Guo-Qiang Wang, Tongji University; Song-Tao Hu, Tongji University; Feng Ye, Tongji University; Guo-Feng Zeng, Tongji University; Qing Lv, Shanghai Maglev Transportation Development Co., Ltd*
10:34 – 10:46	Experimental Study and Simulation Analysis of Ultra-Thin Ballastless Track Structure (#187) *Ruiying Chen, Shanghai Municipal Engineering Design Institute (Group) Co.Ltd*
10:46 – 10:58	Research on Passenger's Characteristics Affecting Subway Station's Security Efficiency (#486) *Di Wang, Chang'an University; Jianjun Wang, Chang'an University*
10:58 – 11:10	Research on Risk Assessment Model, Method, and Index System of High Speed Maglev System (#555) *Guofeng Zeng, Tongji University; Qing Lv, Shanghai Maglev Transportation Development Co., Ltd; Guoqiang Wang, Tongji University*
11:10 – 11:22	Study on the Traffic Congestion Index of Urban Rail Transit Stations (#780) *Bo Wang, Beijing Transportation Information Center; Chen Li, Beijing University of Technology; Yunyun Bai, Beijing Transportation Information Center; Anan Yang, Beijing University of Technology; Xianglong Liu, China Academy of Transportation Sciences*
11:22 – 11:34	The Reliability Analysis of a Metro Network Based on Accessibility (#859) *Wei Liu, Shanghai Shentong Metro Group Co. Ltd; Jingjing Chen, Shanghai No.4 Metro Operation Co. Ltd.; Qi Zhang, Technical Center of Shanghai Shentong Metro Group Co. Ltd.*
11:34 – 11:46	Trip Path Identification Method of Subway Passengers Based on Phone Signaling Data (#199) *Jing Li, Southeast University; Ning Zhang, Intelligent Transportation System Research Center, Southeast University; Zhuangbin Shi, Intelligent Transportation System Research Center, Southeast University; Mengting Lai, Southeast University*
11:34 – 11:46	Unplanned "Skip-stop" Decision Support Model for Conventional Routes of Urban Rail Transit (#567) *Zhen Niu, Shanghai University of Engineering Science; Zhigang Liu, Shanghai University of Engineering Science; Lin Zhu, Shanghai University of Engineering Science; Jing Guo, Shanghai University of Engineering Science*

Saturday, July 7

Technical Session 15: Road Traffic Operations, Management, and Control **Chair:** *Hao Wei, Professor, Changsha University of Science & Technology ,China*	**10:10 – 12:00** **Meeting Room 8** **Xijiao Hotel** 西郊宾馆第八会议室
10:10 – 10:23	Drivers' Adaptability of the Variable Approach-lane at Signalized Intersection (#590) *Yanan Yu, Southeast University; Yongfeng Ma, Southeast University; Chenxiao Zhang, Southeast University; Shuyan Chen, Southeast University*
10:23 – 10:36	Feasibility Analysis for Designing Signal Coordination without Traffic-count Data (#671) *Aobo Wang, University of Nevada, Reno; Zong Tian, University of Nevada, Reno*
10:36 – 10:49	Requirement Modeling of Simulation Platform for High-Speed Maglev Operation Control System based on Multi-Resolution Modeling (#257) *Yijun Chen, Tongji University; Huahua Zhao, Tongji University; Yi Yu, Tongji.Edu.Cn; Wei Nai, Tongji Zhejiang College*
10:49 – 11:02	Research on Network Traffic Controller Based on Edge Computing (#258) *Xiaoming Liu, North China University of Technology ; Yulin Tian, North China University of Technology ; Shaohu Tang, Beijing Research Center of Urban Systems Engineering; Chunlin Shang, North China University of Technology; Peizhou Yan, North China University of Technology; Lu Wei, North China University of Technology; Wenzhao Chen, North China University of Technology Beijing Key Lab of Urban Road Traffic Intelligent Tech.*
11:02 – 11:15	Research on Urban Road Network Operation Characteristics Using Data Fusion among ETC, FCD and DSRC Data (#216) *Wenjing Wang, Beijing University of Technology; Yusen Chen, Beijing University of Technology; Yanyan Chen, Beijing University of Technology; Fan Zhang, Rioh*
11:15 – 11:28	Study on Pedestrian Crossing Behavior Characteristics at Countdown Signalized Intersections (#487) *Mengzhen Wang, Tongji University; Hangfei Lin, Tongji University*
11:28 – 11:41	The Optimization Method of Energy Consumption in the Congestion Transportation Network Based on Macroscopic Fundamental Diagram (#161) *Heng Ding, Hefei University of Technology; Tao Yang, Hefei University of Technology; Jingwen Zhou, Hefei University of Technology; Xiaoyan Zheng, Hefei University of Technology; and Wenjuan Huang, Hefei University of Technology;*
11:41 – 11:54	Traffic Equilibria Considering Travel Time Unreliability Based on Perceived Expected Travel Cost (#457) *Junjie Zhang, Beihang University; Yunpeng Wang, Beihang University; Guangquan Lu, Beihang University*

Technical Session 16: Traffic Safety, Security and Emergency Responses **Chair:** *Chengcheng Xu, Associate Professor ,Southeast University, China*	**10:10 – 12:00** **Meeting Room 11** **Xijiao Hotel** 西郊宾馆第十一会议室
10:10 – 10:23	A Study of Identification Methods of Air Traffic Controllers' Fatigue State Based on Characteristics of Air-ground Communication Speech (#491) *Xingjian Zhang, Civil Aviation University of China; Lingling Ma, Civil Aviation Air Traffic Institute, Civil Aviation University of China; Peng Bai, Civil Aviation University of China; Yifei Zhao, Civil Aviation University of China*
10:23 – 10:36	Calibration of the Gipps' car-following model using high-altitude video data (#154) *Jianjun Wang, Chang'an University; Yongjie Ma, Chang'an University; Xun Zeng, Chang'an University; Chenyang Zhang, Chang'an University; Kailun Li, Chang'an University; Di Wang, Chang'an University*
10:36 – 10:49	Hierarchical Control for Ship Navigation under Winds: A Case in the Three Gorges Reservoir Area (#11) *Dan Jiang, Chongqing Jiaotong University; Bing Wu, Wuhan University of Technology*
10:49 – 11:02	Investigating Severity and Main Weather Factors in Tricycle Crashes in Beijing (#13) *Quan Yuan, Tsinghua University; Zihao Liang, Tsinghua University; Wei Hao, Changsha University of Science & Technology; Yibing Li, Tsinghua University*
11:02 – 11:15	Investigation of Pedal Operation Characteristics and Drivers' Workload on Sloped Sections of Mountainous Road based on Naturalistic Driving Data (#21) *Jin Xu, Chongqing Jiaotong University; Danqi Wang, Chongqing Jiaotong University; Jing Hu, Chongqing Jiaotong University; Yiming Shao, Chongqing Jiaotong University*

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11:15 – 11:28	Modeling pedestrians red-light running behavior at signalized intersection: Accounting for unobserved heterogeneity (#12) *Wu Yao, Southeast University; Yanyong Guo, University of British Columbia; Jian Lu, Southeast University*
11:28 – 11:41	Road traffic safety status evaluation model based on matter element extension method (#49) *Feng Lu, People's Public Security University of China; Hongliang Wang, People's Public Security University of China*
11:41 – 11:54	Traffic Forecast of Multimodal Passenger Transportation Hub Based on Deep Neural Networks (#89) *Zi Zhang, Communications Commission of Guangzhou Municipality; Peiqun Lin, South China University of Technology; Chi Wu, Guangzhou Communications Information Construction Investment and Operation Co.Ltd.; Yongwei Lei, South China University of Technology*

Technical Session 17 : Transportation Cloud, Data Mining and Applications **Chair:** *Kun Xie, University of Canterbury*	**10:10 – 12:00** **Meeting Room 12** **Xijiao Hotel** 西郊宾馆第十二会议室
10:10 – 10:25	Floating Population and Resident Population Identification Based on Gaussian Mixture Model Using Origin-Destination Indexes Generated by Cellphone Data (#211) *Yang Hong, Southeast University; Bin Ran, Southeast University ; Jian Zhang, Southeast University ; Xinkai Ji, Southeast University; Fan Yang, Southeast University*
10:25 – 10:40	A Methodology for Identifying Urban Traffic Corridors Using Big Data of Cell Phone Trajectory (#214) *Xinkai Ji, Research Center For Internet of Mobility, School of Transportation, Southeast University; Bin Ran, Research Center For Internet of Mobility, School of Transportation, Southeast University ; Jian Zhang, Research Center For Internet of Mobility, School of Transportation, Southeast University ; Yang Hong, Research Center For Internet of Mobility, School of Transportation, Southeast University; Xiaoli Zhang, Hohai University*
10:40 – 10:55	Application of ACA-based Fuzzy C-Means Clustering to Division of Traffic Zones (#190) *Yanbin Liu, Cethik Research Institute; Wei Zhi, Cethik Group Corporation Research Institute; Shaodong Wang, Zhejiang University; Xihua Wen, Cethik Research Institute; Hongliang Li, Tsinghua University-Zhiyuan Technology Co.,Ltd Its Joint Randd Center; Weiguo Xu, Tsinghua University-Zhiyuan Technology Co.,Ltd Its Joint Randd Center*
10:55 – 11:10	Examining the Reasons for the Low Market Share of Road Passenger Transport Based express using Structural Equation Modeling (#668) *Kai Yin, Henan Polytechnic University; Xianghong Li, Henan Polytechnic University; Qiqi Chen, Henan Polytechnic University; Junpeng Lu, Henan Polytechnic University*
11:10 – 11:25	Research on Decision-making Factors of Ship's Driving Behavior Based on Grey Relation Entropy Analysis Method (#684) *Jie Xue, Wuhan University of Technology; Chaozhong Wu,Wuhan University of Technology; Zhijun Chen, Wuhan University of Technology*
11:25 – 11:40	Short-Term Forecasting of Traffic Flow and Speed: A Deep Learning Approach (#123) *Lingxiao Zhou, Zhejiang University; Xiqun (Michael) Chen, Zhejiang University*
11:40 – 11:55	Study on Residential Travel Behavior based on "Internet +" Information Feedback (#703) *Jian Xiong, East China Jiaotong Univerity; Xin Qi, East China Jiaotong Univerity; Mengyu Sun, East China Jiaotong University; Xiaomeng Zhao, East China Jiaotong Univerity; Menglan Jiang, East China Jiaotong Univerity*

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Technical Session 18 : Transportation Cloud, Data Mining and Applications **Chair:** *Hong Chen, Chang'an University*	**10:10 – 12:00** **Meeting Room 15** **Xijiao Hotel** 西郊宾馆第十五会议室
10:10 – 10:25	A Trip Building and Chaining Methodology Using Traffic Surveillance Data (#660) *Yun Yue, Tsinghua University; Xin Pei, Tsinghua Univerisity; Zi Yang, Tsinghua University; Yongqi Dong, Tsinghua University; Danya Yao, Tsinghua University*
10:25 – 10:40	Analysis of the Trip Characteristics of Urban Residents based on Mobile Phone Positioning Data in Nanjing (#826) *Qing Wang, Southeast University; Jian Zhang, Southeast University ; Fan Yang, Southeast University ; Shuying Du, Southeast Univesity; Han Zhang,Southeast Univesity*
10:40 – 10:55	Can We Use Social Media Data to Predict Trip Purpose? (#704) *Yu Cui, University at Buffalo, SUNY; Chuishi Meng, University at Buffalo, SUNY; Qing He, University at Buffalo, SUNY; Jing Gao, University at Buffalo*
10:55 – 11:10	Research on the Adaptive Learning Support System of Air Traffic Control (#479) *Peng Bai, Civil Aviation University of China; Xingjian Zhang, Civil Aviation University of China; Fuqing Dai, Civil Aviation University of China; Jie Wang, Civil Aviation University of China; Xi Wang, Civil Aviation University of China*
11:10 – 11:25	Strategic 4D Trajectory Deconfliction under Considering of Trajectory Uncertainty (#110) *Ying Zhang, Nanjing University of Aeronautics and Astronautics; Mengyu Gao, Nanjing University of Aeronautics and Astronautics; Zhao Yang, Nanjing University of Aeronautics and Astronautics; Wen Tian, Nanjing University of Aeronautics and Astronautics*
11:25 – 11:40	The Impact of Energy Consumption, Traffic Emissions and Technological Progress on The SO2 Emissions: A Panel Study of 11 China's Western Provinces (#875) *Yan Li, Chang'an University; Hong Chen, Chang'an University*
11:40 – 11:55	Traveler Activity Analysis of Typical Buildings Based on Cell Phone Signaling Data (#174) *Junyi Ji, Southeast University; Jun Hou, Jiangsu Hongxin System Integration Co. Ltd.; Yang Liu, Southeast University; Zhiyuan Liu, Southeast University*

Technical Session 19 : Transportation Policy, Planning and Modeling **Chair:** *Peng Chen, Tongji University*	**10:10 – 12:00** **Meeting Room 18** **Xijiao Hotel** 西郊宾馆第十八会议室
10:10 – 10:23	A Generalized-Random Regret Minimization based Commuters' Mode Choice Model (#23) *Lixiao Wang, School of Civil and Architectural Engineering, Xinjiang University ; Wang Xiaoyu, School of Civil and Architectural Engineering, Xinjiang University ; Zhi Zuo, School of Civil and Architectural Engineering, Xinjiang University*
10:23 – 10:36	A Lagrangian-based Approach for Reliable User Equilibrium Considering Link Travel Time Variance (#282) *Xue Xie, Southeast University; Qixiu Cheng, Southeast University; Aya Selmoune, Southeast University; Bin Lu, Quzhou Highway Authority; Zhiyuan Liu, Southeast University*
10:36 – 10:49	Analysis on Parking Characteristics and Sharing Conditions of Appertaining Parking Lot in Urban Typical Combined Land (#104) *Jun Chen, School of Transportation, Southeast University ; Yue Liu, School of Transportation,Southeast University; Bin Wang, School of Transportation,Southeast University*
10:49 – 11:02	Evaluation of Multimodal Passenger Transportation Hub Service Quality Based on Matter element Analysis Model (#36) *Huanhuan Yin, Research Institute of Highway Ministry of Transport; Zhao Zhu, Research Institute of Highway Ministry of Transport; Lu Zhang, Research Institute of Highway Ministry of Transport*
11:02 – 11:15	Mixed Traffic Flow Model Considering Curb Parking (#296) *Jiezhen Tang, Southeast University; Jian Lu, Southeast University*
11:15 – 11:28	Operation Mode Selection Model of PPP Project Construction of Public Parking Lot Based on Analytic Hierarchy Process (#40) *Yan Han, Beijing University of Technology; Tiantian Zhang, Beijing University of Technology; Wanying Li, Beijing University of Technology*

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11:28 – 11:41	Parking Characteristics of Administrative Unit's and Partitioning Method of Berths Shared Space-time Windows (#84) *Jun Chen, School of Transportation, Southeast University ; Jun Hao, School of Transportation, Southeast University, Nanjing; Kai Chen, School of Transportation, Southeast University, Nanjing*
11:41 – 11:54	The Effect of Transportation Infrastructure on Enterprise's Total Factor Productivity: from the Perspective of Foreign Direct Investment (#302) *Dong Yang, China Academy of Transportation Sciences; Yan Wang, University of International Business and Economics*

Technical Session 20 : Transportation Policy, Planning and Modeling **Chair:** *Kang-Ning Zheng, Beijing Jiaotong University*	**10:10 – 12:00** **Zhongbei Hall** **Xijiao Hotel** 西郊宾馆中北厅
10:10 – 10:23	An Optimized Artificial Bee Colony Algorithm for the Shortest Path Planning Problem (#689) *Jian Zheng, Shenzhen Urban Transport Planning Center; Zhen Zhang, Shenzhen Urban Transport Planning Center*
10:23 – 10:36	Analysis of the Dynamic Evolution of Regional Comprehensive Transportation Structure Based on Shift-Share Model (#693) *Rui-Fen Sun, Chang'an University; Qun-Qi Wu, Chang'an University; Zhi-Min Peng, Chang'an University*
10:36 – 10:49	Analysis of Traffic Characteristics and Comprehensive Transportation Governance in Medium-Sized Cities of Developed Regions (#758) *Yaoqing Wang, Southeast University; Xiucheng Guo, Southeast University; Xinyue Lei, Southeast University*
10:49 – 11:02	Analysis on the Impact of Floating Parking Fees on Parking Demand (#840) *Huanmei Qin, Beijing University of Technology; Yingying Dun, Beijing University of Technology; Jinmeng Zhang, Beijing University of Technology; Xiuhan Yang, Beijing University of Technology*
11:02 – 11:15	Countermeasures for the Development of the International Multimodal Transportation under the Construction of The Belt and Road (#759) *Hu Zhang, East China University of Political Science and Law*
11:15 – 11:28	Exploring Daily Travel Cost Budget Frontier Based on Stochastic Frontier Model (#502) *Kang-Ning Zheng, Beijing Jiaotong University; En-Jian Yao, Beijing Jiaotong University; Yong-Sheng Zhang, Beijing Jiaotong University; Long Pan, Beijing Jiaotong University*
11:28 – 11:41	Improving Cycling Environment based on Bicyclists' Degree of Satisfaction (#488) *Shiyi Zhou,Tongji University; Ying Ni, Tongji University*
11:41 – 11:54	Residence-Workplace Spatial Distribution Characteristic Analysis Based on Mobile Phone Data (#869) *Shuying Du, Southeast University; Bin Ran, Southeast University; Jian Zhang, Southeast University; Xiao-Kai Shi, Southeast University; Xiao-Li Zhang, Southeast University; Qing Wang, Southeast University*

Plenary Session 4 : Traffic Safety in the New Era **Chair:** *Yiping Wu, Professor, Xi'an Jiaotong University*	**14:00 – 15:50** **Ginkgo Hall** **Xijiao Hotel** 西郊宾馆银杏大厅
14:00 – 14:25	Distresses in bridge approach/departure asphalt pavements and best repair practices *Qing Lu, Associate Professor, University of South Florida*
14:25 – 14:50	Experimental Research on Pedestrian Walking Behavior Involving Individuals with Disabilities *Anthony Chen, Professor, Hong Kong Polytech University*
14:50 – 15:15	Safety in the Connected and Automated Vehicle Era: A U.S. Perspective on Research Needs *Asad Khattak, Professor, University of Tennessee*
15:15 – 15:40	Driver Distractions: Perception Survey and Driving Simulation Tests *Panos Prevedouros, Professor and Chair of Civil and Environmental Engineering, University of Hawaii at Manoa*

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Spotlight Session 5: Advances in Transportation Modeling **Chair:** *Haizhong Wang, Assistant Professor, Oregon State University*	**14:00 – 15:50** **Meeting Room 6** **Xijiao Hotel** 西郊宾馆第六会议室
14:00 – 14:20	Constrained Optimization and Distributed Computation based Car Following Control of A Mixed Flow Platoon *LiLi Du, Associate Professor, University of Florida*
14:20 – 14:40	Multiclass equilibrium model for mixed traffic of human-driven and autonomous vehicles *Sean He, Assistant Professor, Rensselaer Polytechnic Institute*
14:40 – 15:00	Statistical inference of probabilistic origin-destination demand using day-to-day traffic data *Zhen Qian, Assistant Professor, Carnegie Mellon University*
15:00 – 15:20	Percolation Phenomenon in Connected Vehicle Network through a Multi-agent Approach: Mobility Benefits and Market Penetration *Haizhong Wang, Assistant Professor, Oregon State University*
15:20 – 15:40	A Hierarchical Framework for Emergency Evacuation Optimization *Guohui Zhang, Assistant Professor, University of Hawaii at Manoa*

The Construction and Maintenance of Green Transport Infrastructure **Chair:** *Chengbao Liu*	**13:30 – 16:00** **Meeting Room 8** **Xijiao Hotel** 西郊宾馆第八会议室
13:30-13:40	Warming up and Introduction Opening Remarks
13:40-14:00	Consideration of Ecological Impact of the Construction of Green Transport Infrastructure *Xidong Guo, Executive Member of the Council of Chinese Society of Landscape Architecture, and Director of Tianjin Institute of Landscape Architecture*
14:00-14:10	Free Talk
14:10-14:30	Research on the Green Highway Evaluation Technology and Standard *Wei Zeng, Deputy Chief Engineer and Senior Engineer of the First Institute of Tianjin Municipal Engineering Design & Research Institute*
14:30-14:40	Free Talk
14:40-15:00	Issues about the Construction of Ground Ecological Parking Lot *Yanning Zhao, Professor of Water and Soil Conservation School, Beijing Forestry University*
15:00-15:10	Free Talk
15:10-15:30	The Application of Ecological Technology in the Construction of Green Transport Infrastructure and its Enlightenment *Binbin Wang, Deputy Director of LVYIN Research Institute*
15:30-15:40	Free Talk
15:40-16:00	Water and Soil Conservation and Ecological Restoration during the Construction of Green Highway *Bingpeng Qu, Director of the Department of Ecological Restoration of LVYIN Research Institute*

THU Invited Session 6: Transport System Optimization **Chair:** *Zhiyuan Liu, Professor, School of transportation, Southeast University, China*	**14:00 – 16:00** **Meeting Room 1** **Xijiao Hotel** 西郊宾馆第一会议室
13:30	Opening remarks
13:30 – 13:50	Data-driven bus scheduling to improve passenger flow *Xiang Li Professor ,School of Economics and Management Science, Beijing University of Chemical Technology , China*
13:50 –14:10	A column generation-based heuristic for aircraft recovery problem with airport capacity constraints and maintenance flexibility *Zhe Liang Professor ,Tongji University , China*

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14:10 – 14:30	How Information Availability and Stochasticity Impact Disrupted Transportation Networks? *Chi Xie Professor ,Tongji University , China*
14:30– 14:50	A Markov Process Model on Evaluating the Transit Vehicle Control Strategies *Qiong Tian Professor ,Beihang University, China*
14:50 –15:10	Link-based System Optimum Dynamic Traffic Assignment Problems in General Networks *Jiancheng Long Professor, Hefei University of Technology, China*
15:10–15:30	Joint Estimation of Signal Timings for all Directions of an Intersection Using Low-Frequency GPS Data *Hai Jiang, Associate Professor, Tsinghua University, China*
15:30 –15:50	Practical Taxi Sharing Schemes at Large Transport Terminals *Zhiyuan Liu Professor, School of transportation, Southeast University, China*
15:50	*Summary*

THU Invited Session 7: Human-machine Co-driving

14:00 – 16:00
Meeting Room 2
Xijiao Hotel
西郊宾馆第二会议室

Chair: *Guangquan LU, Professor, Beihang University ,China*
Shengbo Eben Li, Associate Professor, Tsinghua University ,China

14:00	Opening remarks
14:00 – 14:20	Human-Like Autonomous Car-Following Planning *Xuesong Wang Professor ,Tongji University, China*
14:20 –14:40	Driver-Automation Indirect Shared Control of Highly Automated Vehicles *Shengbo Eben Li Associate Professor,Tsinghua University, China*
14:40 – 15:00	Reflection of driver intention in autonomous driving system *Rui Fu Professor ,School of Automobile, Chang'an University, China*
15:00– 15:20	Intelligent Vehicle Control with Driver Behavior Identification *Bing Zhu Professor ,Jilin University, China*
15:20 –15:40	Driving Workload Characteristics and Capability Boundary under Human-vehicle Switching *Nengchao Lyu Associate Professor ,Wuhan University of Technology, China*
15:40 –16:00	Quantify Risk Perception in Car-following Process *Guangquan Lu Professor ,Beihang University, China*
16:00	Summary

THU Invited Session 8: Traffic Safety

14:00 – 15:40
Meeting Room 3
Xijiao Hotel
西郊宾馆第三会议室

Chair: *Xuesong Wang, Professor, Tongji University ,China*
Xiaohua Zhao, Professor, Beijing University of Technology, China

14:00	Opening remarks
14:00 – 14:20	Longitudinal Safety Analysis for Heterogeneous Platoon of Automated and Human Vehicles *Xin Pei Associate Professor ,Tsinghua University, China*
14:20 –14:40	A Traffic Assignment Method for Transport Network Considering Safety Reliability with Heterogeneous Risk Aversion *Helai Huang Professor ,Central South University, China*
14:40 – 15:00	Developing Systematic Safety Performance Models in Shanghai, China *Xuesong Wang Professor ,Tongji University, China*
15:00– 15:20	Study on the safety evaluation of driving behavior on urban roads *Xiaohua Zhao Professor ,Beijing University of Technology*, China
15:20 –15:40	Path – speed planning for complex alignment and its application on safety improvement of mountain roads design *Jin Xu Professor ,Chongqing Jiaotong University*, China
15:45	Summary

Saturday, July 7

THU Invited Session 9: Electrification in Transportation **Chair:** *Jianqiu Li, Professor, Tsinghua University, China*	**14:00 – 15:20** **Meeting Room 7** **Xijiao Hotel** 西郊宾馆第七会议室
14:00	Opening remarks
14:00 – 14:20	Data-driven states estimation for lithium-ion batteries *Caiping Zhang Professor , School of Electrical Engineering, Beijing Jiaotong University, China*
14:20 –14:40	Fundamental principles and research progress of lithium slurry battery *Dandan Liu Institute of Electrical Engineering, Chinese Academy of Sciences, China*
14:40 – 15:00	Multi-physical Modeling of Large-Format Batteries for Traction and Energy Storage *Zhe Li, Associate Professor, Department of Automotive Engineering, Tsinghua University, China*
15:00– 15:20	Structural Failure Mechanism and Modelling of Lithium-ion Battery under Mechanical Abuse *Yong Xia, Associate Professor, Department of Automotive Engineering, Tsinghua University, China*
15:20– 15:40	Trends of fuel cell vehicle in china *Jianqiu Li, Professor , Tsinghua University, China*
15:45	Summary

THU Invited Session 10: Information Sharing Platform of Traffic Safety Research **Chair:** *Director Yan Gao, Associate Research Fellow, Traffic Management Research Institute of the Ministry of Public Security, China* *Wei Hao, Professor, Changsha University of Science & Technology ,China* *Quan Yuan, Dept. of Automotive Engineering, Tsinghua University, China*	**14:00 – 18:00** **Hui Yuan Hall** **Xijiao Hotel** 西郊宾馆荟缘厅
14:00	Opening remarks
14:00– 14:20	Traffic Risk Evaluation based on Big Data *Rongjie Yu, Associate Professor ,College of Transportation Engineering, Tongji University, China*
14:20 –14:40	Investigating the spatial effects of land use and road network patterns on traffic safety *Chengcheng Xu, Associate Professor ,Southeast University, China*
14:40 – 15:00	The characteristics of driving anger and the design of intervention in driving anger *Zhongxiang Feng, Associate Professor ,Hefei University of Technology, China*
15:00– 15:20	Bus Travel Time Reliability Considering Stop Waiting Time and In-vehicle Travel Time with AVL Data *Jia Yao, Associate Professor ,Harbin Institute of Technology, China*
15:20 –15:40	Development of Two-stage based Eco-Driving System for Connected Automated Vehicles *Wei Hao Professor, Changsha University of Science & Technology ,China*
15:40 –15:55	DEKRA Vision Zero – Attainable Reality for Zero Fatalities *Xuan Zhou, Planning and Development Director, DEKRA, East Asia*
15:55–16:00	*Tea Brake*
16:00–16:20	Automatic driving boundary and take-over scenarios under Chinese road traffic conditions *Quan Yuan, Director of Center Office, Center for Intelligent Connected Vehicles and Transportation, Dept. of Automotive Engineering, Tsinghua University, China*
16:20–16:40	Investigating the effects of traffic composition on freeway crash frequency and severity *Qiang Zeng, Assistant Professor, South China University of Technology, China*
16:40–17:00	Uncovering urban travel characteristics using large-scale GPS trajectory data *Jinjun Tang, Associate Professor ,School of Traffic & Transportation Engineering, Central South University, China*
17:00–17:20	Vehicular Positioning Enhancements based on VANETs *Xuting Duan Beihang University, China*
17:20–17:40	Optimization of Bus Lines & Network Based on Perception of Individual Trip Characteristics *Jiancheng Weng, Associate Professor ,College of Metropolitan Transportation, Beijing University of Technology, China*
17:40–18:00	Drivers' Visual Search Patterns during Overtaking Maneuvers on Freeway *Wenhui Zhang , Associate Professor, Northeast Forestry University, China*
18:00	Summary

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Forum of Tsinghua Civil Engineering Alumni **Chair:** *Meng Li, Associate Professor, Tsinghua University, China*	**14:00 – 18:30** **Room 201** **Heshanheng Building, Tsinghua University** 清华大学何善衡楼 201
14:00 - 14:20	Open remarks *Dongping Fang, Tsinghua University, China* *Yongjiu Shi, Tsinghua University, China* *Huapu Lu, Tsinghua University, China*
14:20 - 14:40	Chair professor talk *Hai Yang, HKUST, Hong Kong, China*
14:40 – 16:10	Young scholars' session 1 *Session chair:* *Bin Ran, University of Wisconsin-Madison, USA* *Yinhai Wang, University of Washington, USA*
16:10 – 16:30	Break
16:30 - 17:45	Young scholars' session 2 *Session chair:* *Yafeng Yin, University of Michigan, Ann Arbor, USA* *Xinyu Jason Cao, University of Minnesota, USA*
17:45 – 17:55	Introduction to the first undergraduate transportation program in Tsinghua University *Meng Li, Tsinghua University, China*
17:55 – 18:25	Session for development and cooperation between civil and transportation engineering *Session chair:* *Peng Feng, Tsinghua University, China* *Yinhai Wang, University of Washington, USA*
18:25 – 18:30	Closing remarks *Qixin Shi, Tsinghua University, China*

Plenary Session 5: Transportation System Planning and Operation: Retrospect and Prospect **Chair:** *Shanjiang Zhu, Assistant Professor, George Mason University, USA*	**16:10 – 18:00** **Ginkgo Hall** **Xijiao Hotel** 西郊宾馆银杏大厅
16:10 – 16:40	How many cars are too many? Insights from MFD comparisons *Kay Axhausen, Professor, ETH Zurich*
16:40 – 17:10	The role of access and egress in passenger overall satisfaction with high speed rail *Jason Cao, Professor, University of Minnesota*
17:10 – 17:40	The Costs and Benefits of Road Diets: How much evaluation is needed? *Robert Noland, Director, Voorhees Transportation Center, Rutgers University*

Spotlight Session 6: Operation and Management toward Efficient Transportation **Chair:** *Yao-Jan Wu, Assistant Professor, University of Arizona*	**16:10 – 18:00** **Meeting Room 6** **Xijiao Hotel** 西郊宾馆第六会议室
16:10 – 16:30	Operational Design for Urban Rail Transit Systems under Oversaturated Traffic: Discrete and Continuous Modelling Approach *Xiaopeng Li, Assistant Professor, University of South Florida*
16:30 – 16:50	Hardware-in-the-loop Testing for Connected Automated Traffic Systems: Use Cases of Vehicle-to-Vehicle and Vehicle-to-Infrastructure Applications *Jiaqi Ma, Assistant Professor University of Cincinnati*

16:50 – 17:10	Planning of Fast-Charging Stations for a Battery Electric Bus System Under Energy Consumption Uncertainty *Ziqi Song, Assistant Professor, Utah State University*
17:10 – 17:30	Monitoring Network-Wide Arterial Performance: Practical Approaches and Research Methods *Yao-Jan Wu, Assistant Professor, University of Arizona*

Technical Session 21 : Autonomous and Connected Vehicles

16:10 – 18:00

Chair: *Zhigang Xu, Chang'an University*

Meeting Room 1

Xijiao Hotel

西郊宾馆第一会议室

16:10 – 16:23	A Lane-Changing Trajectory Planning and Assistant Decision-Making Method for Autonomous Vehicle (#540) *Zheyu Cui, Beijing University of Posts and Telecommunications; Jianming Hu, Tsinghua University; Hongfei Guan, Chinese Academy of Sciences*
16:23 – 16:36	A New Video-based Ego-positioning Method and Its Application on Vehicle Parking Guidance (#685) *Xiangmo Zhao, Changan University; haigen MIN, Chang'an University; Zhigang Xu, Chang'an University; Wei Wang, Inst Commun & Nav*
16:36 – 16:49	A Novel Vehicle Platoon Following Controller based on Deep Deterministic Policy Gradient Algorithms (#478) *Guan Wang, Tsinghua University; Jianming Hu, Tsinghua University; Yusen Huo, Tsinghua University; Zuo Zhang, Tsinghua University*
16:49 – 17:02	Data Alignment Calibration between Camera and LiDAR (#494) *Shichao XIE, Tsinghua University; Kun JIANG, Tsinghua University; Yuanxin ZHONG, Tsinghua University; Diange Yang, Tsinghua University*
17:02 – 17:15	Intelligent Connected Vehicle (ICV) Effect Study for Urban Transportation System using Microscopic Simulation (#632) *Jingchen Dai, Tsinghua University; Ruimin Li, Tsinghua University*
17:15 – 17:28	LEVERAGING SHARED AUTONOMOUS ELECTRIC VEHICLES FOR FIRST/LAST MILE MOBILITY (#619) *J Farhan, University of Virginia; T. Donna Chen, University of Virginia; Zhuoyi Zhang, University of Virginia*
17:28 – 17:41	Study on Methods of Traffic Estimation under Connected Vehicles and Manual Vehicles Mixed Environment (#44) *Zhiwei Li, Cethik Research Institute; Xihua Wen, Cethik Research Institute; Yanbin Liu, Cethik Research Institute; Yuanhui Cheng, Cethik Research Institute*
17:41 – 17:54	Uncertainty Estimation of Location Information under Vehicle-Vehicle Cooperative Control (#456) *Junda Zhai, Beihang University; Guangquan Lu, Beihang University*

Technical Session 22 : Logistics and Freight Transportation

16:10 – 18:00

Chair: *Jinxian Weng, Shanghai Maritime University*

Meeting Room 2

Xijiao Hotel

西郊宾馆第二会议室

16:10 – 16:25	An Electric Vehicle Routing Problem with Pickup and Delivery (#96) *Qian-Qian Yang, Chang'an University; Dawei Hu, Chang'an University; Hong-Fan Chu, Chang'an University; Chao-Ran Xu, Chang'an University;*
16:25 – 16:40	Analysis of Vessel Traffic Characteristics in the Yangtze River Estuary Based on AIS Data (#860) *Jinxian Weng, Shanghai Maritime University; Haiyan Zhu, Shanghai Maritime University; Guorong Li, Shanghai Maritime University*
16:40 – 16:55	Optimization of Multimodal Transport Route with Mixed Time Windows (#731) *Xiaohong Chen, Tongji University; Xiaolong Zhang, Tongji University*
16:55 – 17:10	Optimizing the Location-Inventory-Routing Problem for Perishable Products Considering Food Waste and Fuel Consumption (#792) *Qian Sun, Chang'an University; Steven Chien, New Jersey Institute of Technology; Da-Wei Hu, Chang'an University; Bing-Shan Ma, Chang'an University*

Saturday, July 7

17:10 – 17:25	Research on Logistics Distribution of Urban Public Transport under Intelligent Transportation System (#793) *Jinling Huang, Chang'an University; Jingshuai Yang, Chang'an University; Yimeng Wang, Chang'an University; Qingkai Liu, Chang'an University*
17:25 – 17:40	The Calculation Model of Freight Quantity Generation from a Survey of Beijing Restaurants (#841) *Yuyang Zhou, Beijing University of Technology; Ruxin Xie, Beijing University of Technology; Songtao Tang, Beijing University of Technology; Yanyan Chen,Beijing University of Technology*
17:40 – 17:55	Improving the Reliability of Maritime Freight Transport through Collaborations among Ports *Wenjie LI, George Mason University, Elise Miller-Hooks,George Mason University*

Technical Session 23 : Public Transit

16:10 – 18:00
Meeting Room 3
Xijiao Hotel
西郊宾馆第三会议室

Chair: *Hongtai Yang, Southwest Jiaotong University*

16:10 – 16:23	A Novel Bus Station Coding Method to Balance the Supply Ability and the Demand Attraction of Public Transit (#451) *Yuyang Zhou, Beijing University of Technology; Ruizhi Li, Beijing University of Technology; Jie Xiong, Beijing University of Technology; Lin Yao, Xiamen Transit Research Center; Qianyang Zhao, Beijing University of Technology; Yanyan Chen, Beijing University of Technology*
16:23 – 16:36	An Optimized Model of Bus Scheduling Based on Actual Variable Costs (#369) *Yinpu Wang, Southeast University; Wei Liu, Southeast University; Chengchuan An, Southeast University; Jingxin Xia, Southeast University*
16:36 – 16:49	Effects of Collinear Section Length on Bus Bunching (#834) *Xuemei Zhou, Tongji University; Weiwei Fan , Tongji University; Yunlin Shi, Nanjing Institute of City & Transport Planning Co.Ltd.*
16:49 – 17:02	Evaluating Public Transit Equity with the Concept of Accessibility (#438) *Asif Raza, Wuhan University of Technology; Ming Zhong, Wuhan University of Technology*
17:02 – 17:15	Network Optimization of Conventional Public Transit Based on Urban Rail Transit (#298) *Mingyang Du, Southeast University; Lin Cheng, Southeast University; Liqiang Huang, Southeast University; Qiang Tu, Southeast University*
17:15 – 17:28	Optimization Design of Public Bicycle Rental Point in Qujiang New District of Xi'an (#421) *Wei-Jia Dai, Beijing Jiaotong University; En-Jian Yao, Beijing Jiaotong University*
17:28 – 17:41	Optimizing Combined Bus service Pattern and Frequencies with Genetic Algorithm (#551) *Ziyu Zhou, Southeast University; Zhirui Ye, Southeast University; Yueru Xu, Southeast University*
17:41 – 17:54	Passenger Flow Prediction of Urban Public Transport Hubs Based on a Deep Learning Approach: A case study in Changzhou (#291) *Te Xu, Southeast University; Min Yang, Southeast University; Jingxian Wu, Southeast University; Da Lei, Southeast University; Yunteng Wu, Southeast University*

Technical Session 24 : Rail Operations, Management and Control

16:10 – 18:00
Meeting Room 7
Xijiao Hotel
西郊宾馆第七会议室

Chair: *Haozhe Cong, The Ministry of Public Security*

16:10 – 16:25	A Passenger-Oriented Model for Timetable Rescheduling During the End-of-Service Period: A Case Study of the Beijing Subway Network (#699) *Wenkai Xu, Beijing Jiaotong University; Peng Zhao, Beijing Jiaotong University; Liqiao Ning, Beijing Jiaotong University; Heng Wei, University of Cincinnati; Hui Zhang, Shandong Jianzhu University*
16:25 – 16:40	An Iterative Adjustment Algorithm for Signal Timing Based on Sampling Trajectory Data (#83) *Jiaying Yu, Tsinghua University; Han Jiang, Tsinghua University; Fang He, Tsinghua University; Meng Li, Tsinghua University*

Saturday, July 7

16:40 – 16:55	Analysis of Rail Transit Passenger Flow in Nanjing (#791) *Xing Zhao, Hohai University; Kang Ji, Hohai University; Ji-Huai Chen, Hohai University; Gang Ren, Southeast University*
16:55 – 17:10	Delay Model Revisited Considering Channelized Section Spillover (#92) *Hongsheng Qi, Zhejiang University*
17:10 – 17:25	Drivers' Perception Towards the Safety of Pedestrians and Cyclists: A Traffic Safety Culture Survey in California (#64) *Haozhe Cong, The Ministry of Public Security; Xiaomeng Shi, Southeast University; Julia Griswoldand, University of California Berkeley; Jill Cooper, University of California Berkeley*
17:25 – 17:40	Error Analysis of Vehicle Speed Measurement Method Based on Video in Crash Analysis (#78) *Tao Chen, Chang'an University; Hongbo Liu, Chang'an University; Biao Gong, 2traffic Management Research Institute of The Ministry of Public Security; Cunyi Yang, The Traffic Science Research Institute of Yunnan Province*
17:40 – 17:55	Nonlinear Disturbance Observer based Sliding Mode Controller for Vehicular Traffic Flow (#107) *Ruidong Yan, Tsinghua University; Kun Jiang, Tsinghua; Chunlei Yu, Tsinghua University; Diange Yang, Tsinghua University*

Technical Session 25 : Road Traffic Operations, Management, and Control **Chair:** *Yunqiang Xue, East China Jiaotong University*	**16:10 – 18:00** **Meeting Room 8** **Xijiao Hotel** 西郊宾馆第八会议室
16:10 – 16:23	A Traffic Signal Control Method Based on Asynchronous Reinforcement Learning (#405) *Yusen Huo, Tsinghua University; Jianming Hu, Tsinghua University; Guan Wang, Tsinghua University; Junhan Chen, Tsinghua University*
16:23 – 16:36	Improved Fuzzy Clustering Analysis of Urban Road Network (#800) *Yunqiang Xue, East China Jiaotong University; Xue Luowei, East China Jiaotong University*
16:36 – 16:49	Influence Factors and Passenger Flow Distribution Characteristics of Lasting Large-Scale Activities: A Case Study of Beijing Garden Expo 2013 (#688) *Huimin Qian, Kunming University of Science and Technology; Min He, Kunming University of Science and Technology; Jiancheng Weng, Beijing University of Technology; Chunyan Shuai, Kunming University of Science and Technology*
16:49 – 17:02	Optimizing Unit Extension for Fully Actuated Traffic Signal Controls in Intelligent Transportation Systems (#518) *Jinchao Wu, Tsinghua University; Kai Zhang, Tsinghua University; Yanqun Jiang, Southwest University of Science and Technology; Bokui Chen, Tsinghua University; Yi Zhang, Tsinghua University; Jun Zhou, National University of Singapore; Jingkai Wang, Kagoshima University; Lixin Miao, Tsinghua University*
17:02 – 17:15	Real Time Estimation of Lane-by-Lane Arrival and Departure Profiles at Signalized Intersections with Two Low-angle Cameras (#776) *Le Xin, Beijing University of Technology; Yangzhou Chen, Beijing University of Technology; Jiangbi Hu, Beijing University of Technology*
17:15 – 17:28	Research and Application on Highway Traffic Index System (#506) *Yuan Zheng, Southeast University; Bin Ran, Southeast University ; Zhengfeng Lu, Jiangsu Highway Company Limited; Xu Qu, Southeast University; Jian Zhang, Southeast University*
17:28 – 17:41	Research on Setting Left-turn Lanes Outside of Straight Lanes (#862) *Yan-Li Sun, Shandong University; Ru-Hua Zhang, Shandong University; Xue-Song Gao, Shandong University*
17:41 – 17:54	The Time-Space Optimization Dynamic Control of Intersections under the Environment Of Vehicle Infrastructure Integration (#401) *Song Yan, Peoples' Public Security University of China; Jun-Li Wang, Peoples' Public Security University of China; Jing-Sheng Wang, People's Public Security University of China; Dan Zhao, Peoples' Public Security University of China*

Saturday, July 7

Technical Session 26 : Traffic Safety, Security and Emergency Responses **Chair:** *Kun Wang, Hefei University of Technology*	**16:10 – 18:00** **Meeting Room 11** **Xijiao Hotel** 西郊宾馆第十一会议室
16:10 – 16:23	A BPCA Based Missing Value Imputation and Its Impact on Traffic Incident Prediction (#58) *Huiping Li, Tsinghua University; Yinhai Wang, University of Washington; Meng Li, Tsinghua University*
16:23 – 16:36	An investigation into driver behavior and driving ability under reduced visibility conditions (#29) *Weihua Zhang, Hefei University of Technology; Xuxin Zhang, Hefei University of Technology; Zhongxiang Feng, Hefei University of Technology; Kun Wang, Hefei University of Technology; Zhe Hu, Hefei University of Technology*
16:36 – 16:49	Association Rule Analysis of Contributory Factors to Severe Traffic Accidents (#235) *Zheng Yao, Southeast University; Wei Deng, Southeast University; Dingxin Wu, Southeast University*
16:49 – 17:02	Comprehensive risk discriminant method of regional freeway network and its application (#97) *Haifan Cheng, Transportation Planning and Design Institute of Jilin Province; Xiaowei Hu, Harbin Institute of Technology; Wenze Zuo, Harbin Institute of Technology*
17:02 – 17:15	Driver's Characteristic of Aggressive Driving Behavior Based on Factor Analysis Method (#372) *Jiankun Du, Southeast University; Hao Wang, Southeast University; Rui Li, Southeast University*
17:15 – 17:28	Perception and Response Characteristics of Pedestrian-vehicle Traffic Conflict at Unsignalized Intersections under Driving Distraction (#76) *Pengyun Zhao, Beihang University; Guangquan Lu, Beihang University; Liming Liang, Beihang University*
17:28 – 17:41	Predicting Traffic Hazardous Events based on Naturalistic Driving Data (#196) *Ping Sun, Tongji University; Junhao Gao, Tongji University; Hongfei Fan, Tongji University; Xuesong Wang, Tongji University*
17:41 – 17:54	The Impacts of Data on Spatial Transferability of Crash Risk Prediction Model (#20) *Zhen Gao, Tongji University; Shuyun Yu, Tongji University; Min Wang, Tongji University;Rongjie Yu, Tongji University; Xuesong Wang, Tongji University;*

Technical Session 27 : Traffic Safety, Security and Emergency Responses **Chair:** *Xuecai Xu, Nanyang Technological University*	**16:10 – 18:00** **Meeting Room 12** **Xijiao Hotel** 西郊宾馆第十二会议室
16:10 – 16:25	A Vehicle Driving Simulator Based On Virtual Reality (#733) *Xiongqing Peng, Southwest Jiaotong University; Hu Su, Southwest Jiaotong University; Zhiqiang Wang, Southwest Jiaotong University; Yang Yu, Southwest Jiaotong University*
16:25 – 16:40	Analysis of Urban Metro Accidents Based on Social Media Data (#627) *Lei Zhang, Tongji University; Zhengyu Duan, Tongji University; Yu Wang, Tongji University*
16:40 – 16:55	Data Fusion of Traffic Flow: a Semiparametric Approach with Density Ration Model (#286) *Zheng Zhu, University of Maryland; Lei Zhang, University of Maryland*
16:55 – 17:10	Detection of Safety Features of Drivers based on Image Processing (#755) *Haoning Xi, Tsinghua University ; Yi Zhang, Tsinghua - Berkeley Shenzhen Institute ; Yi Zhang, Tsinghua University*
17:10 – 17:25	Pedestrian Injury Severity Analysis at Signalized Intersections: A Survival Analysis Based Approach (#717) *Xuecai Xu, Nanyang Technological University; Feng Zhu, Nanyang Technological University*
17:25 – 17:40	Simulation-based Research on the Comprehensive Indexes for Highway Hypnosis Evaluation (#732) *Shu-Yi Wang, Southeast University; Cheng Chen, China Energy Engineering Group Zhejiang Electric Power Design Institute Co. Ltd; Hao Zhou, Southeast University*
17:40 – 17:55	Vehicle Trajectory Reconstruction and Home Places Estimation from Monitoring Data (#176) *Haiyang Yu, Beihang University; Shuai Yang, Beihang University; Shuai Liu, Beihang University; Yilong Ren, Beihang University*

Saturday, July 7

Technical Session 28: Transportation Energy, Environment and Sustainability **Chair:** *Roopesh Kumar Mehra, Tsinghua University*	**16:10 – 18:00** **Meeting Room 15** **Xijiao Hotel** 西郊宾馆第十五会议室
16:10 – 16:25	Analysis on the Logistics Policy Impact of Energy Saving and Emission Reduction: A System Dynamics Approach (#48) *Haijun Mao, Southeast University; Changjia Jiang, Southeast University*
16:25 – 16:40	Application of Artificial Neural Network (ANN) to Predict the Performance and Emission of Hydrogen Enriched Compressed Natural Gas (HCNG) Engines (#701) *Roopesh Kumar Mehra, Tsinghua University; Hao Duan, Tsinghua University; Fanhua Ma, Tsinghua University; Amit Thakur, Dev Bhoomi Group of Institutions*
16:40 – 16:55	Comprehensive Evaluation Index System of Urban Green Traffic System (#171) *Qiaoming Li, Southwest Jiaotong University*
16:55 – 17:10	Dynamic Speed Optimization in the Vicinity of Signalized Intersections during Green Phase (#516) *Xia Wu, Changan University; Xiangmo Zhao, Chang'an University; Qi Xin, Chang'an University; Shaowei Yu, Chang'an University; Kang Sun, Chang'an University*
17:10 – 17:25	Research on Optimization of Urban Traffic Microcirculation System (#729) *Liqiang Huang, Southeast University; Lin Cheng, Southeast University Mingyang Du, Southeast University*
17:25 – 17:40	Study on Energy Demand and CO2 Emission Peak of China's Highway Transport Based on LEAP Model (#120) *Yue Chen, Research Institute of Highway Ministry of Transport; Yanchun Yu, Research Institute of Highway Ministry of Transport*

Technical Session 29: Transportation Policy, Planning and Modeling **Chair:** *Pengfei Zhao, Beijing University of Technology*	**16:10 – 18:00** **Meeting Room 18** **Xijiao Hotel** 西郊宾馆第十八会议室
16:10 – 16:23	A Review of Road Functional Classification Problems (#125) *Dongwei Wang, Zhengzhou University; Hui Li, Zhengzhou University; Kai Zhang, Henan Urban Planning Institute & Corporation; Yadan Yan, Zhengzhou University*
16:23 – 16:36	Estimation of Social Value of Travel Time Savings Using Willingness-to-pay Method in Nanjing, China (#91) *Zhao Yang, Nanjing University of Aeronautics and Astronautics; Ying Zhang, Nanjing University of Aeronautics and Astronautics; Xuelian Bai, Nanjing University of Aeronautics and Astronautics; Di Wu, Nanjing University of Aeronautics and Astronautics*
16:36 – 16:49	Illegal Crossing behavior of Pedestrians at signalized intersections in China: A Case Study in Guangzhou (#344) *Yingying Ma, SCUT; Siyuan Lu, SCUT; Chen Wen, SCUT*
16:49 – 17:02	Individuals' Activity-Travel Behavior in Travel Demand Models: A Review of Recent Progress (#597) *Naznin Sultana Daisy, Dalhousie University; Hugh Millward, Saint Mary's University; Lei Liu, Dalhousie University*
17:02 – 17:15	Influence of Built Environment on Simultaneous Decision-making Behavior for School Trips (#234) *Jie Yang, Beihang University; Xiaolei Ma, Beihang University; Chuan Ding, Beihang University; Yunpeng Wang, Beihang University*
17:15 – 17:28	Link Criticality Analysis Based on Reliable Shortest Path in Network with Correlated Link Travel Times (#254) *Dongqin Zhou, Southeast University; Qixiu Cheng, Southeast University; Qinhe An, Southeast University; Bin Lu, Quzhou Highway Authority; Zhiyuan Liu, Southeast University*
17:28 – 17:41	Study on Capacity of Bus Lines for Multi-Line Harbor-Style Bus Stop Based on Queuing System (#229) *Youbang Dong, Hohai University; Rui Li, Hohai University; Yi Cao, Hohai University; Jingjing Yao, Hohai University*

Saturday, July 7

17:41 – 17:54	Study on sharing parking spaces: An agent-based simulation approach (#395) *PENGFEI ZHAO, Beijing University of Technology; HONGZHI GUAN, Beijing University of Technology; LEI ZHAO, Beijing University of Technology; XIONGBIN WU, Beijing University of Technology; YANG SI, Beijing University of Technology*

Technical Session 30 : Transportation Policy, Planning and Modeling **Chair:** *Achim Czerny, Hong Kong Polytechnic University*	**16:10 – 18:00** **Zhongbei Hall** **Xijiao Hotel** 西郊宾馆中北厅
16:10 – 16:23	A Congestion Policy Game (#692) *Achim Czerny, Hong Kong Polytechnic University; Hao Lang, Hong Kong Polytechnic University*
16:23 – 16:36	Analysis of Capacity Drop Caused by Transit Lane-Changing Behavior Near Bus Stops (#863) *Yi Cao, Hohai University; Rui Li, Hohai University; Youbang Dong, Hohai University; Panpan Ding, Hohai University*
16:36 – 16:49	Analysis of Cruising Behavior for Parking: An Agent-based Method (#842) *Huanmei Qin, Beijng University of Technology; Fei Zheng, Beijng University of Technology;Xiuhan Yang, Beijng University of Technology; Jianqiang Gao, Beijing New Airport Construction Headquarters*
16:49 – 17:02	Analysis of the Keep-Right Rule in Traditional System and Evaluation on Alternative Rules in Intelligent Vehicle-Infrastructure Cooperation Systems (#865) *Haoning Xi, Tsinghua University ; Yi Zhang, Tsinghua -- Berkeley Shenzhen Institute ; Yi Zhang, Tsinghua University*
17:02 – 17:15	Measuring Connectivity of Multi-Modal Transit Networks with Customized Bus Services: An Activity-Based Approach (#848) *Yu Gu, Southeast University; Xiao Fu, Southeast University; Zhiyuan Liu, Southeast University; Bin Lu, Quzhou Highway Authority*
17:15 – 17:28	Research and Simulation of Urban Household Joint Activity-travel Decision-making Behavior (#160) *Baohong He, Kunming University of Science and Technology; Miao Guo, Kunming University of Science and Technology ; Xiang Zhang, Kunming University of Science and Technology*
17:28 – 17:41	Research on the Ergonomics of Intersection Guiding Signs (#846) *Xianglin Yao, Beijing Uninversity of Technology; Xiaohua Zhao, Beijing Uninversity of Technology; Liying Sui, Beijing Transportation Information Center; Hao Liu, Beijing Transportation Information Center; Yuming Heng, Beijing Gong Lian Transportation Hub Construction Management Co. Ltd*
17:41 – 17:54	Transit Signal Priority Optimization for Intersection with Far-side Bus Stop (#807) *Xin Xue, Hohai University; Dongqin Yu, Hohai University; Jihuai Chen, Hohai University; Hao Gong, Hohai University; Wen Wang, Hohai University*

Sunday, July 8

Plenary Session 6: Emerging Trends in Transportaton Research **Chair:** *Guohui Zhang, Assistant Professor, University of Hawaii, USA*	**08:00 – 09:50** **Ginkgo Hall** **Xijiao Hotel** 西郊宾馆银杏大厅
08:00 – 08:25	Transportation big data: promises, issues, and implications *Jeff Ban, Associate Professor, University of Washington*
08:25 – 08:50	Overview and Challenges of ITS Development in Hong Kong *William Lam, Chair Professor, The Hong Kong Polytechnic University*
08:50 – 09:15	Mixed Bus Fleet Scheduling Under Range Uncertainty *Hong. K. Lo, Chair Professor, The Hong Kong University of Science and Technology*
09:15 – 09:40	Gas dynamic analogous exposure approach to interaction intensity in multiple-vehicle crash analysis: Case study of crashes involving taxis *Sze Chun Wong, Chair Professor, The University of Hong Kong*

Spotlight Session 7: Signal and Roadway Control with New Technologies **Chair:** *Zong Tian, Professor, University of Nevada Reno*	**08:00 – 09:50** **Meeting Room 6** **Xijiao Hotel** 西郊宾馆第六会议室
08:00 – 08:20	Traffic Signal Performance Measures *Darcy Bullock, Lyles Family Professor of Civil Engineering, Purdue University*
08:20 – 08:40	A Guideline for Pedestrian Timing Accommodation into Signal Coordination *Ali Gholami, Assistant Professor, Golestan University*
08:40 – 09:00	Sharing the Experience of Regional Signal Re-timing Effort using Innovative Approaches and Technology Tools *Andrew Jayankura*
09:00 – 09:20	Impact of Reservation-based Roadway Control on Capacity of Automated Vehicle Urban Traffic Systems *Aleks Stevanovic, Associate Professor, Florida Atlantic University*
09:20 – 09:40	Signal Control Strategies for Diverging Diamond Interchanges *Zong Tian, Professor, University of Nevada Reno*

Technical Session 31: Autonomous and Connected Vehicles **Chair:** *Kaidi Yang, Eth Zurich*	**08:00 – 09:50** **Meeting Room 2** **Xijiao Hotel** 西郊宾馆第二会议室
08:00 – 08:13	A Location-Sharing Technology for Traffic Organization at Un-Signalized Intersection (#768) *Qinglu Ma, Chongqing Jiaotong University; Qi Zhou, Chongqing Jiaotong University; Min Feng, Chongqing Jiaotong University; Saleem Ullah Lar, Khwaja Fareed University*
08:13 – 08:26	A Pseudospectral Strategy for Lane Change Maneuver of Automated Vehicles on the Highway (#667) *Kai Liu, Beijing Institute of Technology; Jianwei Gong, Beijing Institute of Technology; Chao Lu, Beijing Institute of Technology; Yu Zhang, Beijing Institute of Technology; Huiyan Chen, Beijing Institute of Technology*
08:26 – 08:39	A Tracking Algorithm for a Moving Object in the Image Sequence Based on the Adaptive Threshold (#410) *Zhijun Wang, Chifeng College; Jianhua Wang, Bethune Medical College*
08:39 – 08:52	An Adaptive Horizon Predictive Control Method for Autonomous Vehicles (#715) *Wei Liu, Tsinghua University; Zhiheng Li, Tsinghua University; Li Li, Tsinghua University*
08:52 – 09:05	Bi-Modal Automated Highway Lanes: Control Strategy and Evaluation (#634) *Kaidi Yang, Eth Zurich; Haitao He, Eth Zurich; Monica Menendez, Swiss Federal Institute of Technology Zurich*
09:05 – 09:18	Modified Cell Transmission Model of Traffic Flow via Feed-forward Neural Network (#463) *Zhuo Yin, Beijing University of Techonology; Yangzhou Chen, Beijing University of Techonology; Yuqi Guo, Beijing University of Techonology*

Sunday, July 8

09:18 – 09:31	Multi Vehicles Cooperative Collision Avoidance Model in VANETs (#873) *Haiying Xia, Research Institute of Highway Ministry Transport; Cheng Zeng, Research Institute of Highway Ministry Transport*
09:31 – 09:44	On-board Pedestrian and Cyclist Recognition Using Deep Learning Methods (#858) *Wenqiang Chen, Tsinghua University; Hui Xiong, Tsinghua University; Keqiang Li, Tsinghua University; Xiaofei Li, Idriver+ Technologies; Dezhao Zhang, Idriver+ Technologies*

Technical Session 32: Pavement and Materials Engineering, and Highway Construction and Maintenance

08:00 – 09:50
Meeting Room 3
Xijiao Hotel
西郊宾馆第三会议室

Chair: *Chen Zhang, Research Institute of Highway Ministry of Transport*

08:00 – 08:15	Experimental Study on Evaluation Index of Pavement Comfort and Safety (#426) *CHEN ZHANG, Research Institute of Highway Ministry of Transport, National Engineering Research Center of Road Maintenance Technologies/RoadMainT Co., Ltd; PING Wu, China Academy of Transportation Sciences/Beijing University of Technology; CHENG Jia, Jilin Chengke Engineering Testing Co., Ltd.,; YI Ban, Research Institute of Highway Ministry of Transport/National Engineering Research Center of Road Maintenance Technologies/RoadMainT Co., Ltd.; XI Zhang, Beijing University of Technology*
08:15 – 08:30	Flexural Behavior of Prestressed Concrete Box Girder Bridges with Corrugated Steel Webs: Review (#135) *Hongjiang Li, Research Institute of Highway, Ministry of Transportation*
08:30 – 08:45	Pavement Performance Prediction Based on Toll Date: Case Study in Shaanxi Province, China (#398) *Yin-Li Jin, Chang'an University; Tong Shen, Chang'An Unniversity; Ye Tang, Chang'an University; Li Li, Chang'an University*
08:45 – 09:00	Research on Design and Calculation Method for Highway U-Shape Bridges (#8) *Ying Ma, Nanjing Institute of Technology; Wanguang Ge, Transportation Plan Design & Research Institute, Southeast University*
09:00 – 09:15	Research on the Optimization for Horizontal Alignment of Interchange Loop Ramp Based on Driving Characteristics (#805) *Yingzhi Qi, Southeast University; Fei Chen, Southeast University*
09:15 – 09:30	Study on the Highway Bridge Expansion Joints with the Advantage of Damping and Noise Reduction Based on Preventive Maintenance (#376) *Chen Zhang, Research Institute of Highway Ministry of Transport/National Engineering Research Center of Road Maintenance Technologies/Roadmaint Co., Ltd.,; Ming Li, Research Institute of Highway Ministry of Transport; Cheng Jia, Jilin Chengke Engineering Testing Co., Ltd.,*

Technical Session 33: Public Transit

08:00 – 09:50
Meeting Room 11
Xijiao Hotel
西郊宾馆第十一会议室

Chair: *Xiaoqian Sun, Beihang University*

08:00 – 08:13	An Investigation of User Satisfaction with Shared Bicycles in Nanjing (#720) *Hanchu Li, Southeast University; Jian Zhang, Southeast University ; Jing Li, Southeast University; Zhuangbin Shi, Southeast University*
08:13 – 08:26	Analysis of Suburbanites' Travel Behavior Based on Big Data (#549) *Xiaozhe Wu, Tsinghua University; Kai Zhang, Tsinghua University; Jinping Guan, Massachusetts Institute of Technology; Bokui Chen, Tsinghua University; Yi Zhang, Tsinghua University; Jun Zhou, National University of Singapore; Lixin Miao, Tsinghua University*
08:26 – 08:39	Modeling for the Optimal Network Design of "Many-To-One" Customized Bus System (#382) *Jie Zhou, Southeast University; Xin Luan, Southeast University; Wei Deng, Southeast University; Cheng Cui, Shanghai Urban Construction Design & Research Institute (Group) Co. Ltd*
08:39 – 08:52	Public Transit based Commuting Travel Time Impact Models (#614) *Zhe Liu, Beijing University of Technology; Jiancheng Weng, Beijing University of Technology; Qiang Tu, Beijing University of Technology; Ledian Zhang, Beijing University of Technology*

Sunday, July 8

08:52 – 09:05	Research on Custom Bus Fare Systems —Taking Ningbo as an Example (#452) *Jie Yu, Beijing University of Technology; Dong Sheng,Ningbo University of Technology; Bian Yang, Beijing University of Technology*
09:05 – 09:18	Stochastic Optimization of Uneven Timetables for Single Bus Line Considering Uncertain Passenger Flows and Travel Times (#651) *Hui Fu, Guangdong University of Technology; Zhongzhen Xie, Guangdong University of Technology; Yefei Wang, Guangdong Universality of Technology; Chuan Feng, Guangzhou Communication Information Construction Investment and Operation Co. Ltd.; Dingyuan Zi, Guangdong Universality of Technology;*
09:18 – 09:31	Travel Satisfaction with Public Transport in Xi'an, China : the Influence of Service Attribute, Travel Time Perception and Mood (#589) *Zihe Zhang, Chang'an University; Yuanqing Wang, Chang'an University; Yanan Gao, Chang'an University*
09:31 – 09:44	Worldwide Subway Systems: Data Extraction, Topology, and Resilience (#645) *Xiaoqian Sun, Beihang University; Sebastian Wandelt, Beihang University*

Technical Session 34: Road Traffic Operations, Management, and Control **Chair:** *ChuanYun Fu, Southwest Jiaotong University*	**08:00 – 09:50** **Meeting Room 12** **Xijiao Hotel** 西郊宾馆第十二会议室
08:00 – 08:15	An Lane Based Dynamic Network Loading Model for Congested Urban Network with Application in Typical Network in China (#153) *Xi Lu, China Academy of Transportation Sciences; Peng Xu, Hohai University; Kai Jiang, Hohai University*
08:15 – 08:30	Analysis of Congestion Evolution at Four-Leg Signalized Intersections (#866) *Yingying Ma, South China University of Technology; Lei Zou, South China University of Technology; Wufeng Xie, Guangzhou Transportation Planning Research Institute; Jianmin Xu, South China University of Technology*
08:30 – 08:45	CVIS based Intersection Signal Control Model for Indivisible Platoons (#808) *Shu-Yang Dong, Southeast University; Zhang Jian, Southeast University; Tian-Yi Chen, University of Wisconsin – Madison; Han Wang, Southeast University; Bin Ran, Southeast University*
08:45 – 09:00	Evaluating the Intervention Effectiveness of New Traffic Regulation on Red-Light Running by Vehicle Type (#177) *Chuan-Yun Fu, Southwest Jiaotong University; Yi-Zhou Zhu, South China University of Technology; Bing-Mei Jia, Southwest Jiaotong University; Tao-Rang Xu, Southwest Jiaotong University*
09:00 – 09:15	Impacts of Initial Credit Distribution Scheme on Network Congestion Management: Considering Traveler's Cognitive Illusion and Transaction Cost (#112) *Fei Han, chang'an university*
09:15 – 09:30	Optimization Model of Signal Timing at Isolated Intersections Based on Stochastic Chance Constrained Programming (#829) *Jingrong Chen, Lanzhou Jiaotong University; Yaran Zhang, Lanzhou Jiaotong University; Yuan Bai, Lanzhou Jiaotong University*
09:30 – 09:45	Research on Influential Factors of Motorized Vehicle Running Red-Lights Based on Random-Effects Negative Binomial Models (#749) *Yan Liu, Southeast University; Wei Wang, Southeast University; Dongya Li, Southeast University*

Technical Session 35: Road Traffic Operations, Management, and Control **Chair:** *Hong Chen, Chang'an University*	**08:00 – 09:50** **Meeting Room 15** **Xijiao Hotel** 西郊宾馆第十五会议室
08:00 – 08:13	An Optimization Model for Minimum Green Time Based on Risk Decision-making at Actuated Signal Intersections (#817) *Junxiang Zhang, Lanzhou Jiaotong University; Bin Lv, Lanzhou Jiaotong University; Binbin Hao, Xi'an Traffic Engineering Institute*

08:13 – 08:26	Estimating the spatiotemporal impact of traffic incidents: An integer programming approach consistent with the propagation of shockwaves (#543) *Hai Jiang, Tsinghua University; Zhengli Wang, Tsinghua University ; Xin Qi, Tsinghua University*
08:26 – 08:39	Modelling Operational Reliability of Urban Arterials Considering Congestion Correlations (#690) *Keran Dong, Traffic Management Research Institute of Public Security Ministry; Jiayue Gu, Traffic Management Research Institute of Public Security Ministry; Zhishou Zeng, Traffic Management Research Institute of Public Security Ministry; Keshuang Tang, Tongji University*
08:39 – 08:52	Research on Through Lane Base Saturation Flow Rate at Signalized Intersections in Beijing, China (#828) *Yi Wang, Beijing University of Technology; Jian Rong, Beijing University of Technology; Chen-Jing Zhou, Beijing University of Civil Engineering and Architecture; Xin Chang, Beijing University of Technology; Zhang-Bin Weng, Beijing University of Technology; An-Kang Zhu, Beijing University of Technology*
08:52 – 09:05	Research on Traffic Channelization Optimization of Signalized Intersections Based on the Emission Analysis (#815) *Zhizhen Liu, Chang'an University; Hong Chen, Chang'an University*
09:05 – 09:18	Simulation Analysis of Green Wave Control on a Short Corridor Based on Non-motor Vehicles and Buses (#864) *Zhenyu Mei, Zhejiang Univeristy; Hai Qiu,Zhejaing University; Chi Feng, Zhejiang Univeristy*
09:18 – 09:31	Simulation of Racing Chassis Performance Based on ADAMS (#809) *Jianyou Zhao, Chang'an University; Chaoyue Wen, Chang'an University; Yongmei Xue, Chang'an University; Qichen Wu, Chang'an University*
09:31 – 09:44	Traffic Signal Control Strategy under Adverse Weather Condition (#564) *Lun Zhang, Tongji University; Wenwen Zhao, Tongji University; Xiyu Zhang, Tongji University*

Technical Session 36: Road Traffic Operations, Management, and Control **Chair:** *Yadan Yan, Zhengzhou University*	**08:00 – 09:50** **Meeting Room 18** **Xijiao Hotel** 西郊宾馆第十八会议室
08:00 – 08:13	A Comparative Study of Weather Effects on Black Spot Identification for Motorways and Urban Arterials Roads (#129) *Jin Zhang, Griffith University; Xiaobo Qu, University of Technology Sydney; Yadan Yan, Zhengzhou University*
08:13 – 08:26	Analysis of Risk Factors Affecting the Severity of Truck-Rollover Crashes in Expressway Ramps by Logistic Regression (#439) *Feng Xiao, Southeast University; Shun-Xin Yang, Southeast University; Ting-Ting Gu, Southeast University; Lin Meng, Southeast University*
08:26 – 08:39	Deterrent Effects of Disposition of Traffic Fines on Speeding Violations (#481) *Young-Hyun Seo, Seoul National University; Eun Hak Lee, Seoul National University; Ho-Suk Shin, Seoul National University; Seung-Young Kho, Seoul National University; Dong-Kyu Kim, Seoul National University*
08:39 – 08:52	Identification of Urban Road Waterlogging Using Floating Car Data (#275) *Songhua Hu, Tongji University; Jianjun Dai, Shenzhen Urban Transport Planning Center Co., Ltd.; Jiandong Qiu, Shenzhen Urban Transport Planning Center Co., Ltd.; Hangfei Lin, Tongji University*
08:52 – 09:05	Research on Crossing Behavior of Non-motorized Vehicles at Signalized Intersections Based on Survival Analysis (#165) *Shuhong Ma, Chang'an University; Chuanqi Liu, Chang'an University*
09:05 – 09:18	Research on Method of Fatigue Driving Detection (#416) *Jianchen Zou, North China University of Technology; Peizhou Yan, North China University of Technology*
09:18 – 09:31	Statistical Analysis and Countermeasure Study on Road Transportation Accidents of Hazardous Materials (#189) *Xiaoli Ma, Tongji University; Yingying Xing, Tongji University; Yujie Liu, Tongji University; Jian Lu, Tongji University*
09:31 – 09:44	Utilizing Multi-Layer Perceptron Neural Network for Crash Risk Prediction based on Full Set of Data (#409) *Yi Gao, Tongji University; Zhen Gao, Tongji University; Rongjie Yu, Tongji University; Zhiqing Huang, Tongji University; Jinsong Feng, Tongji University*

Sunday, July 8

Spotlight Session 8: Improving Mobility with Innovation

10:10 – 12:00
Meeting Room 6
Xijiao Hotel
西郊宾馆第六会议室

Chair: *Ken Yang, Senior Systems Engineer, AECOM*

10:10 – 10:35	A Markovian Decision Process Approach to Vacant Taxi Routing with E-Hailing *Song Gao, Associate Professor, University of Massachusetts, Amherst*
10:35 – 11:00	Matching Arterial Progression Bands With Origin-Destination Traffic Streams *Nathan Gartner, Professor*
11:00 – 11:25	Analyzing the effect of casual carpooling in a multimodal network *Cathy Liu, Assistant Professor, University of Utah*
11:25 – 11:50	Arterial Mobility Evaluation Framework for Operations *Ken Yang,Senior Systems Engineer, AECOM*

World Bank China Transport Forum

08:15-12:30
Meeting Room 5
Xijiao Hotel
西郊宾馆第五会议

Purpose: 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 Forum aims to: (i) highlight critical challenges and opportunities in China's transport development; and (ii) serve as a platform for knowledge and best practices sharing among COTA members, government officials, researchers, educators and practitioners from China and abroad.

Forum Description: The 9th COTA-WB China Transport Forum will be hosted by **Tsinghua University** in Beijing **on July 8, 2018,** and organized by **COTA, World Bank, World Resources Institute (WRI) and China Transport News**. This year's forum will be titled **Clean and Intelligent Urban Mobility** focusing on urban public transport infrastructure, emerging technologies, and advanced mobility services. It is a comprehensive topic of increasing importance in transportation development. The forum will feature national and international experts, Chinese officials, scholars and practitioners who will discuss the challenges and opportunities of applying the technologies in green urban mobility. The forum will focus on the real world experiences and best practices of new energy bus, non-motorized urban mobility, and infrastructure digitalization both in China and around the world.

Organizers: The World Bank, COTA, WRI, and China Transport News

Host: Tsinghua University

Opening Remarks	
Moderator: Jason Wang, Appalachian Regional Commission, USA	
8:15 – 8:30	*Remark 1 – China Transport News Representative* *Remark 2 – COTA/Tsinghua University Representative* *Remark 3 – Hua Tan, World Bank*
Keynote Speech Session	
Moderator: Weimin Zhou, World Bank	
8:30 - 8:55	Sustainability Assessment of Clean Vehicle Options *Panos D. Prevedouros, Chair of Civil and Environmental Engineering, University of Hawaii at Manoa*
8:55 - 9:20	Big Data Analytics for Urban Transit Service Evaluation and Improvements *Xi Sun, Chelaile*
9:20 - 9:30	Q&A
9:30 - 9:55	China New Energy Bus Operation, Evaluation and Monitoring *Bo Xue, Shenzhen Urban Transport Planning & Design Institute*
9:55 – 10:20	Urban Transit Performance Appraisal and Best Practices in China *Xumei Chen, China Academy of Transportation Science (CATS)*
10:20 - 10:30	Q&A
10:30 – 11:10	*Tea Break: TransFORM Club Promotion*

Sunday, July 8

11:10 – 11:35	Big Data and Transit Innovations *Shuai Ren, DiDi Chuxing*
11:35 – 11:45	Q&A
Panel Discussion: Seamless integration of public transport and NMT based on clean and big data technology for urban mobility	
Moderator: Daizong Liu, WRI	
11:45 - 12:25	*Panel: Panos D. Prevedouros, Bo Xue, Xi Sun, Shuai Ren, and WB*
Closing Remark	
12:25 - 12:30	World Bank Representative

Technical Session 37: Intelligent and Connected Transportation Systems (ITS) **Chair:** *Hai Jiang, Tsinghua University*	**10:10 – 12:00** **Meeting Room 2** **Xijiao Hotel** 西郊宾馆第二会议室
10:10 – 10:23	A Tree-Based Reoptimization Framework for Solving Traffic Assignment Problem in Rapid Decision Making Applications (#157) *Lijuan Zhuge, Beijing Jiaotong University; Wei Li, Beijing Transport Inistitute; Jifu Guo, Beijing Transport Inistitute; Kai Xian, Beijing Transport Inistitute; Xin Wu, Beijing Transport Inistitute&School of Traffic and Transportation, Beijing Jiaotong University; Xuesong Zhou, Beijing Transport Inistitute*
10:23 – 10:36	Evaluation Method of Traffic Data for Highways (#580) *Zhixian He, Beijing University of Technology; Yaqiao Zhai, Beijing Road System Management and Emergency Response Center; Xinghua Shen, Beijing Road System Management and Emergency Response Center; Yubo Zhang, Beijing Road System Management and Emergency Response Center; Zongmin Feng, Beijing Road System Management and Emergency Response Center; Yanyan Chen, Beijing University of Technology*
10:36 – 10:49	Identification of Trip Mode Based on Mobile Phone Signaling Data (#253) *Zhenbo Lu, Southeast University; Juan Liu, Southeast University; Gai Zhang, Jiangsu Intelligent Transport Technology Limited Company; Yu Zhao, China Mobile Group Jiangsu Co., Ltd.; Nianqi Zhang, China Mobile Group Jiangsu Co., Ltd.*
10:49 – 11:02	Joint Estimation of Signal Timings for all Directions of an Intersection Using Low-Frequency GPS Data *Xin Qi, Tsinghua University; Jin Zhou, Tsinghua University; Hai Jiang, Tsinghua University*
11:02 – 11:15	Public Bicycle Choice Behavior of Urban Travelers in China (#294) *Jiangling Wu, Shijiazhuang Tiedao University; Shengrui Zhang, Chang'an University; Amit Kumar Singh, Atkins; Zhenjun Zhu, Southeast University; Jun Zeng, Southeast University*
11:15 – 11:28	Research on Traffic Signal Dynamic Optimization Model for Urban Intersections based on Connected Vehicles (#353) *Pangwei Wang, North China University of Technology; Jun Cheng , North China University of Technology; Haoyuan Ni , North China University of Technology; Yinghonog Li, North China University of Technology; Zhang Wei, China Academy of Transportation Sciences; Yilun Jiang, North China University of Technology*
11:28 – 11:41	Traffic Flow Prediction Based on Probe Vehicle GPS Traces Considering Temporal and Spatial Correlations (#124) *Jingru Yu, Zhejiang University; Shuofeng Wang, Tsinghua University; Li Li, Tsinghua University; Xiqun (Michael) Chen, Zhejiang University*
11:41 – 11:54	Traffic Impacts on Environment at Signalized Intersections (#646) *Tao He, Beihang University; Xinkai Wu, Beihang University; Guangjun Wang, Beihang University; Guizhen Yu, Beihang University*

Sunday, July 8

Technical Session 38: Public Transit **Chair:** *Jinjun Tang, Central South University*	**10:10 – 12:00** **Meeting Room 3** **Xijiao Hotel** 西郊宾馆第三会议室
10:10 – 10:23	A Model to Schedule Demand Responsive Connector (#106) *Yunxue Lu, Southeast University; Wenquan Li, Southeast University; Jianan Wang, Southeast University; Zhanlun Zhao, Southeast University*
10:23 – 10:36	Bus Travel Time Prediction Based on GPS Data: A Case Study of Nanjing City (#90) *Jian Lu, Southeast University; Man Long, Southeast University; Jinzhe Gao, Sunac China Holdings Limited; Lin Zhang, Southeast University*
10:36 – 10:49	Dynamic Optimization for Urban Transit Schedule Based on Genetic Algorithm Considering Resource Limitation (#57) *Jinjun Tang, Central South University; Yifan Yang, Central South University; Jin Hu, Central South University; Lexiao Li, Central South University; Yiwei Wang, Central South University*
10:49 – 11:02	Evaluation of Public Transport Service Level Based on Passenger Psychological Perception Time and Actual Travel Time Difference Analysis (#81) *Yachao Liu, School of Transportation, Southeast University; Xing Pei, School of Transportation, Southeast University ; Jun Chen, School of Transportation, Southeast University*
11:02 – 11:15	Game analysis on the development of shared bicycle in Xi'an (#131) *Qingkai Liu, Chang'an University; Jingshuai Yang, Chang'an University; Qi Guo, Chang'an University; Jinling Huang, Chang'an University; Jing Wang, Chang'an University*
11:15 – 11:28	Impacts of Bus Stops on Adjacent Non-Motorized Lanes Capacity (#734) *Jun Yu, Southeast University; Yujie Li, Southeast University; Lixia Wu, Southeast University; Zhuoqun Sun, Southeast University; Zemian Ke, Southeast University*
11:28 – 11:41	Public Transit Priority Development Support System for Small-medium Cities Based on Characteristic Analysis of Resident Trip Selection Behavior (#101) *Lin Zhang, Southeast University; Jian Lu, Southeast University; Man Long, Southeast University; Jialin Zhou, Griffith University*
11:41 – 11:54	Systematic Study on the Forecasting of Transit Passenger Flow Based on Machine Learning with Multi-Source Data (#126) *Dongya Li, Southeast University; Wei Wang,Southeast University; Mingzhang Liang,Southeast University; Yan Liu,Southeast University*

Technical Session 39: Public Transit **Chair:** *Jiaqi Ma, University, of Cincinnati*	**10:10 – 12:00** **Meeting Room 11** **Xijiao Hotel** 西郊宾馆第十一会议室
10:10 – 10:23	Analysis of Chinese Typical Urban Public Transport Network Types and Influencing Factors (#628) *Yu Wang, Tongji University; Chuan Chen; Tongji University; Qing Yu, Tongji University*
10:23 – 10:36	Analysis of the Use Rate of Transport Modes Influenced by Bike Sharing (#843) *Long Cheng, Southeast University; Di Huang, Southeast University; Anish Khadka, Southeast University; Xiaohui Niu, Southeast University; Zhiyuan Liu, Southeast University; Bin Lu, Quzhou Highway Authority*
10:36 – 10:49	Comparative Analysis of Travel Mode Choices under the Perspectives of Trip and Trip Chain (#832) *Li Tang, Xihua University; Hongyao Deng, Xihua University; Xing Zhao, Xihua University; Xuejun Zhang, Beihang University*
10:49 – 11:02	Fuzzy-based Bus Signal Priority Control by Passenger Wait Time (#868) *Jiahui Zhao, Southeast University; Mingtao Xu, Southeast University; Zhirui Ye, Southeast University; Qun Chen, Central South University*
11:02 – 11:15	Study on Countermeasures of the Development of Public Transport in Small and Mid-sized Cities in China (#698) *Guangyuan Du, China Academy of Transportation Science*

Sunday, July 8

11:15 – 11:28	Study on Passenger Flow Distribution over Urban Rail Network (#687) *Wenxin Qiao, Beijing Jiaotong University; Yunlin Guan, Beijing Jiaotong University; Chunfu Shao, Beijing Jiaotong University*
11:28 – 11:41	Study on the behavior model of acceptance of urban public transport information (#789) *Xiqiao Zhang, Harbin Institute of Technology; Xiaoyan Zhu, Harbin Institute of Technology; Longhai Yang, School of Transportation Science and Engineering Harbin Institute of Technology*
11:41 – 11:54	Several Key Issues on Operation Management of Urban Rail Transit under UTO Mode (#218) *Huazhen Lin, Shenzhen University; Qin Luo, Shenzhen Technology University; Tao Xu, Shenzhen University; Guoru Yao, Operation Headquarters of Shenzhen Metro Group Co., Ltd*

Technical Session 40: Road Traffic Operations, Management, and Control

10:10 – 12:00
Meeting Room 12
Xijiao Hotel
西郊宾馆第十二会议室

Chair: *Peng Chen, Beihang University*

10:10 – 10:25	An Adaptive Traffic Signal Control System (ACS-Lite) in Heavily Congested Arterial Traffic: Experiences and Lessons Learned (#272) *Zhanbo Sun, Southwest Jiaotong University; Wan Li, University of Washington; Xuegang Ban, University of Washington; Tianyu Huang, Southwest Jiaotong University*
10:25 – 10:40	An Algorithm for Vehicle Curve Speed Measurement Based on Video (#116) *Tao Chen, Chang'an University; Tao Pu, Chang'an University; Di Wang, The Traffic Science Research Institute of Yunnan Province; Biao Gong, Traffic Management Research Institute of The Ministry of Public Security*
10:40 – 10:55	Analysis of Electromagnetic Characteristics and Optimization Research of Long Stator Linear Synchronous Motor on the Maglev Train (#870) *Yunqiang Li, Tongji University; Guobin Lin, Tongji University; Zhi-Ming Liao, Tongji University; Xiao-Qing Wang; Tongji University*
10:55 – 11:10	Analysis of the Impact of Origin-Destination Distance on Travel Time Reliability under Traffic Incident Conditions (#223) *Yinli Jin, Chang'an University; Junya Chen, Chang'an University; Li Li, Chang'an University*
11:10 – 11:25	Reliable Shortest Path Guidance in Stochastic Road Networks Using Convolution-Based Path Finding Algorithm (#209) *Peng Chen, Beihang University; Rui Tong, Beihang University; Guangquan Lu, Beihang University; Yunpeng Wang, Beihang University*
11:25 – 11:40	Research on Xi'an Road Traffic Congestion Optimization (#137) *Chaoran Xu, Chang'an University; Laijun Wang, Chang'an university; Jing Nie, Chang'an University; Xinying Wang, Chang'an University; Sheng Huang, Chang'an University*
11:40 – 11:55	Study on Development Measures of Railway Freight Transportation Based on Supply Chain Management (#795) *Yin Zhou, China Academy of Railway Sciences*

Technical Session 41: Smart Mobility and Shared Economy

10:10 – 12:00
Meeting Room 15
Xijiao Hotel
西郊宾馆第十五会议室

Chair: *Zi Yang, Tsinghua University*

10:10 – 10:23	Environmental Impacts of Car Sharing (#55) *Xin Luan, School of Transportation, Southeast University; Lin Cheng, Southeast University; Qi Wang, Southeast University*
10:23 – 10:36	Forecasting of the Sharing Bike's OD Volume for Large-scale Transportation Networks: A Deep Learning Approach (#845) *Shaoweihua Liu, Southeast University; Jun Hou, Jiangsu Hongxin System Integration Co. Ltd.; Yang Liu, Southeast University; Anish Khadka, Southeast University; Zhiyuan Liu, Southeast University*

10:36 – 10:49	Impacts of Advanced National Public Charging Infrastructure on Battery Electric Vehicle Market Adoption (#315) *Fei Xie, Oak Ridge National Laboratory; Zhenhong Lin, Oak Ridge National Laboratory; Yan Zhou, Argonne National Laboratory*
10:49 – 11:02	Internet Chauffeured Car Intention: A Model Based on Theory of Planned Behavior (#35) *Yaxiang Li, Chang'an University; Yuanqing Wang, Chang'an University*
11:02 – 11:15	Multi-Cycle Optimal Taxi Routing with E-hailing (#664) *Xinlian Yu, University of Massachusetts Amherst; Song Gao, Universit of Massachusetts Amherst; XianBiao Hu, Missouri University of Science and Technology; Hyoshin Park, North Carolina Agricultural and Technical State University*
11:15 – 11:28	Research on Vehicle Routing Problem of Shared Bike Rebalancing and Recycling (#113) *Hong-Fan Chu , Chang'an University; Da-Wei Hu, Chang'an University; Qian-Qian Yang, Chang'an University*
11:28 – 11:41	Revealing Travel Patterns of Sharing-Bikes in a Spatial-Temporal Manner using Non-negative Matrix Factorization Method (#569) *Yongqi Dong, Tsinghua University; Zi Yang, Tsinghua University; Yun Yue, Tsinghua University; Xin Pei, Tsinghua University; Zuo Zhang, Tsinghua University*
11:41 – 11:54	State-of-the-Art: Opportunities and Challenges of Developing MaaS in China (#785) *Xianglong Liu, China Academy of Transportation Sciences; Xiangjing Li, China Academy of Transportation Sciences; Xinzheng Yang, China Academy of Transportation Sciences; Haode Liu, China Academy of Transportation Sciences; Zhongyi Wu, China Academy of Transportation Sciences*

Technical Session 42: Traffic Safety, Security and Emergency Responses **Chair:** *Yingying Ma, South China University of Technology*	**10:10 – 12:00** **Meeting Room 18** **Xijiao Hotel** 西郊宾馆第十八会议室
10:10 – 10:23	Analysis and Comparison of Potential Traffic Risks Based on Different Field Data (#356) *Dong-Fan Xie, Beijing Jiaotong University; Xiao-Mei Zhao,Beijing Jiaotong University; Qian Li, Beijing Jiaotong University; Rong-Qin Lu, Beijing Jiaotong University; Rui Jiang, Beijing Jiaotong University*
10:23 – 10:36	Analysis of Cybersecurity Threats on Connected Vehicles With CACC Based on an Improved Car-following Model (#639) *Lei Huang, Beihang University; Xinkai Wu, Beihang University; Hongmao Qin, Beihang University; Pengcheng Wang, Beihang University; Guizhen Yu, Beihang University*
10:36 – 10:49	Evaluation of Intrusion Detection Methods for In-vehicle Networks (#672) *Haojie Ji, Beihang University; Yunpeng Wang, Beihang University; Guizhen Yu, Beihang University; xinkai Wu, Beihang university; Hongmao Qin, Beihang University*
10:49 – 11:02	Evaluation Method of Taxi Drivers' Stress Level Based on DBQ and MDSI (#542) *Weiwei Qi, South China University of Technology; Bin Shen , South China University of Technology; Liang Dong, Tongling Nonferrous Design and Research Institute; Zhexuan Wang, South China University of Technology; Kun Zeng, South China University of Technology*
11:02 – 11:15	Modeling Lane Change Gap Acceptance and Duration Using Shanghai Naturalistic Driving Data (#340) *Minming Yang, Tongji University; Xuesong Wang, Tongji University*
11:15 – 11:28	Optimization Analysis of Urban Road Intersection Based on VISSIM Simulation (#322) *Jianyou Zhao,Chang'an University; Yongmei Xue, Chang'an University; Qichen Wu,Chang'an University; Chuang Zhou, Chang'an University; Chaoyue Wen, Chang'an University*
11:28 – 11:41	Pedestrian Conflict Yielding Behavior at Uncontrolled Intersections (#320) *Yingying Ma, South China University of Technology; Chen Wen, South China University of Technology; Siyuan Lu, South China University of Technology*
11:41 – 11:54	Vulnerable Road User Crash Patterns in Orlando (#607) *Wei Zhang, Fhwa; Lin Xiao, National Research Council*

CICTP 2018

General Information

General Information

Date: July 5-8, 2018

Venue: Tsinghua University (Address: No 30 Shuangqing Road, Haidian District, Beijing, China) and Xijiao Hotel Beijing (Address: No.18 Wangzhuang Road, Haidian, Beijing, China)

Website: http://cota-home.org/cictp/cictp2018.html

Registration Desk

Conference registration desk is located at the lobby of Xijiao Hotel Beijing on July 5 and 6 and New Tsinghua Xuetang on July 6. The opening time is as follows:
July 5 14:00-19:30 at lobby of Xijiao Hotel Beijing
July 6 07:30-08:30 at New Tsinghua Xuetang
July 6 13:00-18:00 at lobby of Xijiao Hotel Beijing
Onsite Registration Fee (No group discount):
CNY 2500
CNY 2000 (student)
Registration fee includes:
• Access to all conference and poster sessions
• Refreshments/lunch as listed in the programme
• Programme booklet and other materials
• Conference banquet and farewell lunch
The conference banquet is held in the Ginkgo Hall,Xijiao Hotel Beijing (银杏大厅), Friday, July 6, 18:00-20:00.
The farewell lunch is held in the Ginkgo Hall,Xijiao Hotel Beijing (银杏大厅), Sunday, July 8, 12:00-14:00. A brief closing ceremony will take place, followed by an award ceremony and a handover ceremony from the CICTP 2018 organizers to the CICTP 2019 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.

Exhibition Hours

The exhibition area is situated on the 2nd-3rd floor of Xijiao Hotel Beijing, which will open at 08:00-18:00, July 6-7 & 08:00-14:00 July 8.

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

Departure from Xijiao Hotel to New Tsinghua Xuetang of Tsinghua University at 6:30 am, July 6, 2018, and return at 12:00 pm

July 6, 2018

TIME	FROM	TO
6:30-8:00	Xijiao Hotel Beijing	New Tsinghua Xuetang
12:00-12:30	New Tsinghua Xuetang	Xijiao Hotel Beijing

Catering during the Conference

Catering	Date	Time	Place
Lunch	July 6	12:30-14:00	Shangyuan Restaurant,the 2nd floor of Building NO.5, Xijiao Hotel Beijing,Jingyuan Restaurant& Dongyuan Restaurant,the 1st floor of Building NO.5, Xijiao Hotel Beijing
	July 7	12:00-14:00	
Coffee Break	July 6	09:30-10:00	The 2nd floor of Building NO.5, Xijiao Hotel Beijing,the 2nd and 3rd floor of Building NO.1(Conference Center), Xijiao Hotel Beijing
		15:50-16:10	
	July 7	09:50-10:10	The 2nd floor of Building NO.5, Xijiao Hotel Beijing,the 2nd and 3rd floor of Building NO.1(Conference Center), Xijiao Hotel Beijing
		15:50-16:10	
	July 8	09:50-10:10	The 2nd floor of Building NO.1(Conference Center), Xijiao Hotel Beijing
Dinner	July 5	17:30-19:00	Shangyuan Restaurant,the 2nd floor of Building NO.5, Xijiao Hotel Beijing,Jingyuan Restaurant& Dongyuan Restaurant,the 1st floor of Building NO.5, Xijiao Hotel Beijing
	July 7	18:00-20:00	
The Conference Banquet	July 6	18:00-20:00	Ginkgo Hall ,the 2nd floor of Building NO.1(Conference Center), Xijiao Hotel Beijing
The Farewell Lunch	July 8	12:00-14:00	Ginkgo Hall ,the 2nd floor of Building NO.1(Conference Center), Xijiao Hotel Beijing

Conference Secretariat

The conference secretariat, based in Tsinghua 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.

CICTP2018 Secretariat:

The Front Desk of Xijiao Hotel Beijing

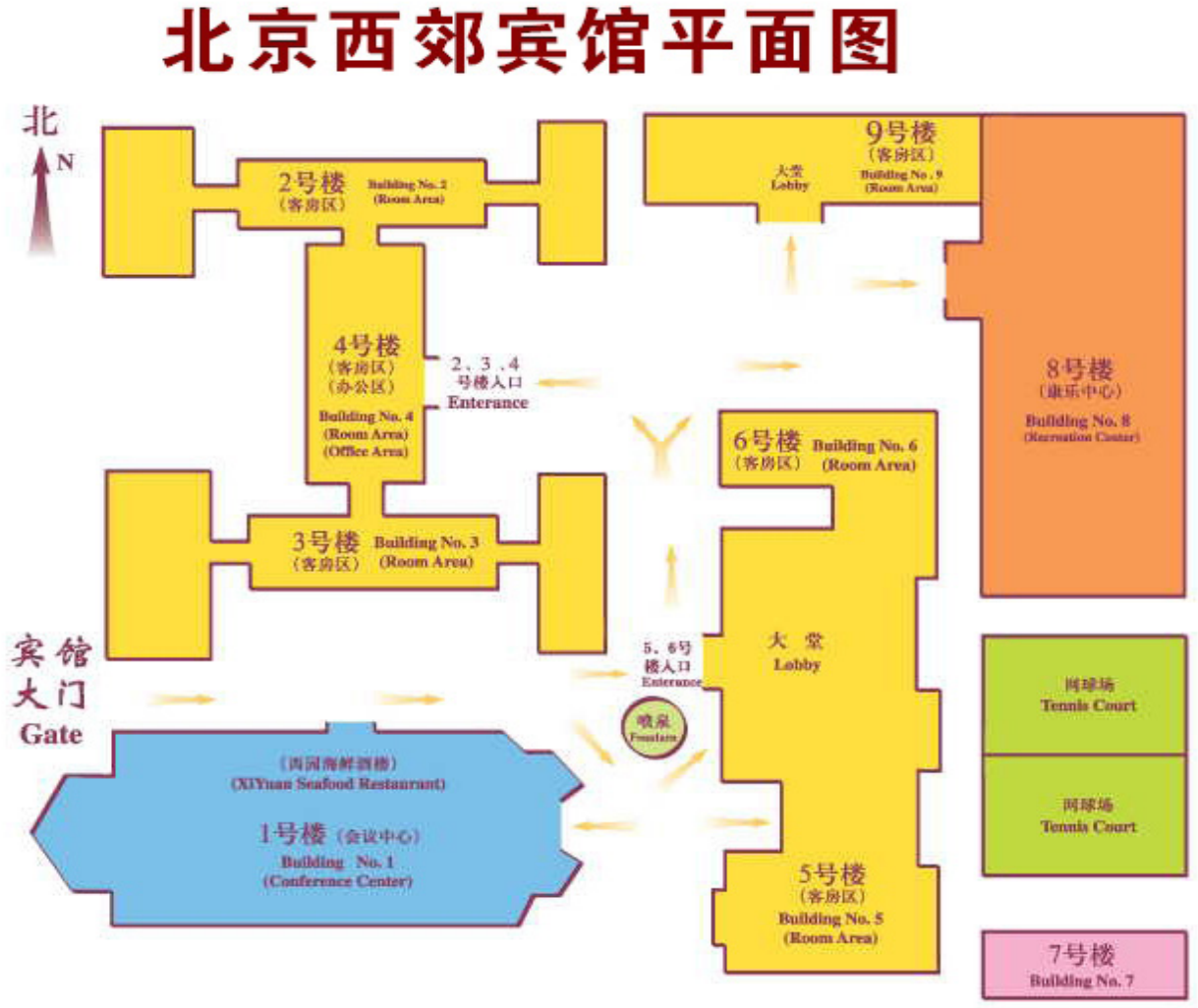
Hotel Information

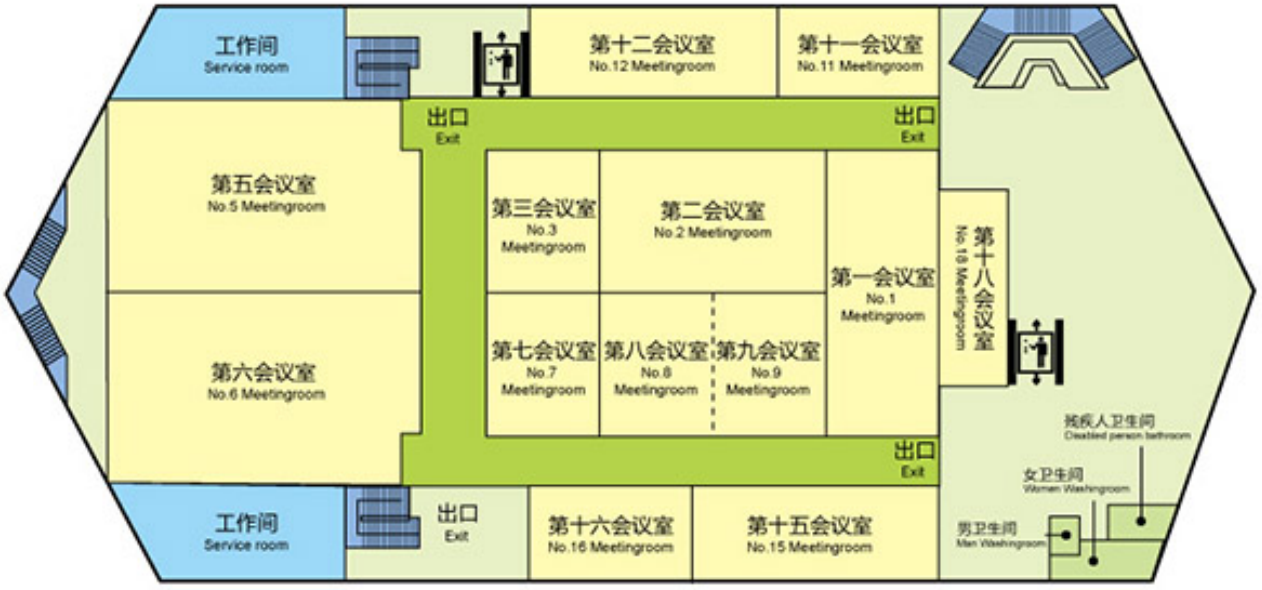
- **Xijiao Hotel Beijing** ★★★★☆

(Website: www.xijiaohotel.cn)

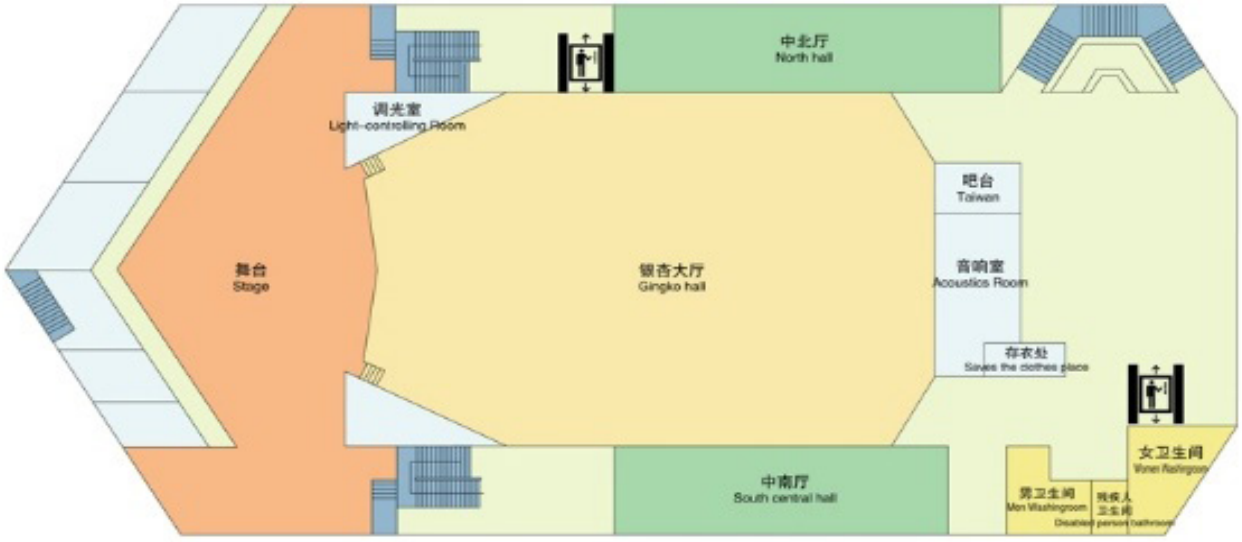
Add: No.18 Wangzhuang Road, Haidian, Beijing, China

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





西郊宾馆1号楼二层平面示意图
Second Floor Plan of Building No.1



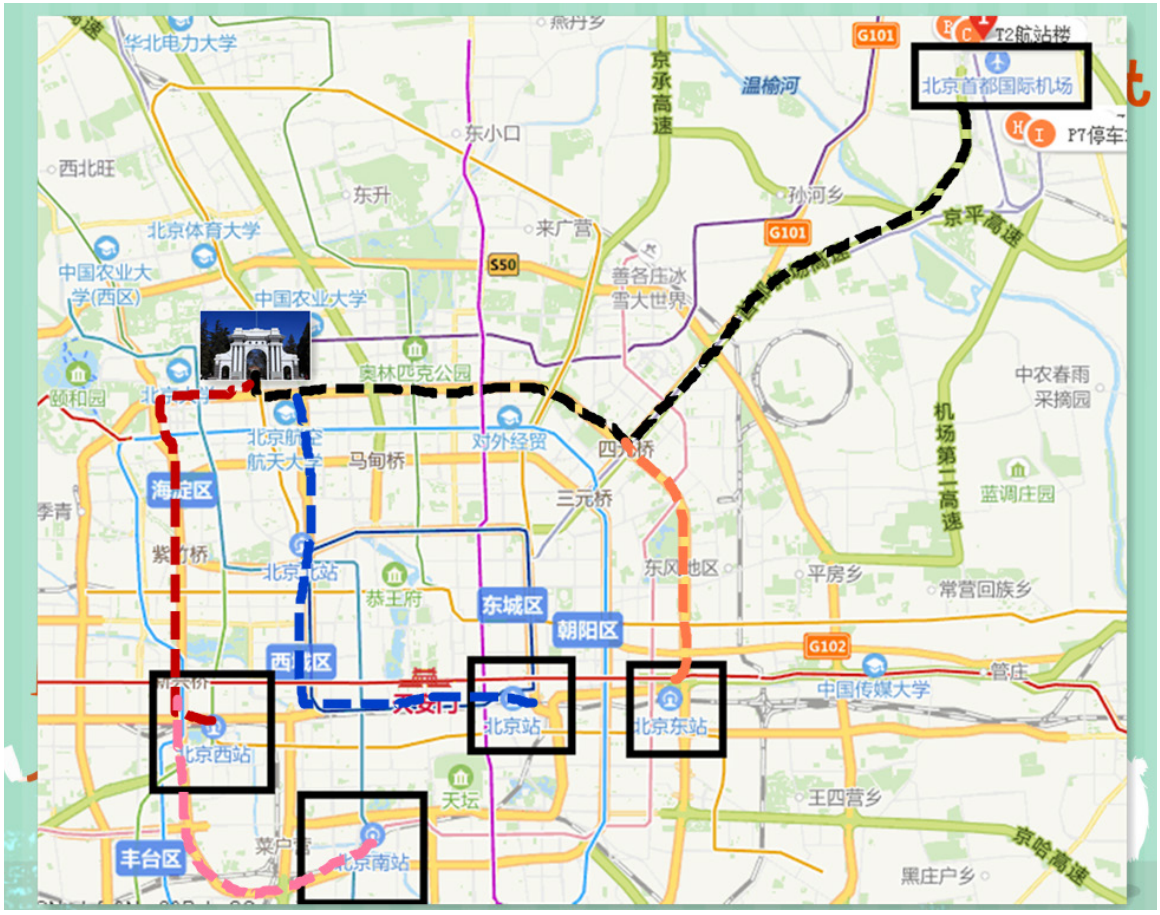
西郊宾馆1号楼三层平面示意图
Third Floor Plan of Building NO.1


八
北
五
环
上清桥
路
达
岭
轻
轨
学
清
路
清华大学
北京林业大学
中国农业大学
清
华
东
路
北沙滩桥
大
屯
路
中
关
村
北
大
街
清华同方
五道口站
王
庄
路
中国矿业大学
北京西郊宾馆
XIJIAO HOTEL
学
院
路
中国石油大学
奥林匹克公园
高
速
公
路
北京大学
中
关
村
东
路
成
府
路
五道口
商业中心
中国地质大学
北京科技大学
水立方
鸟巢
中关村
一桥
北
保福
寺桥
四
环
路
学院桥
首都机场
北京航空
航天大学
西直门
北三环
方向

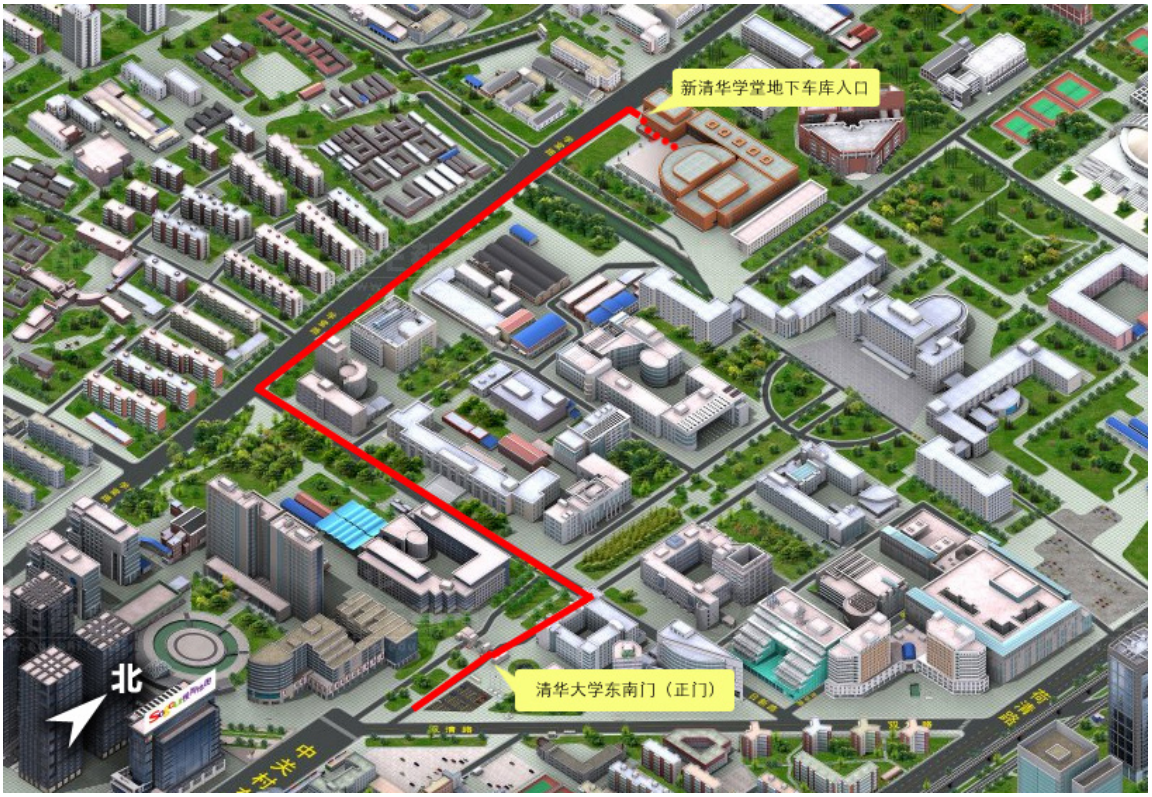
西郊宾馆周边示意图


清华国关
航天航空学院
清华大学
新清华学堂
经管楼
iCenter
北京林业大学
三和概念酒店
北京林业大学
中国农业大学
中国农业大学
清华东路西口
15号线
六道口
东王庄小区
石科院生活区
中国矿业大学(北京)
北京西郊宾馆
北京西郊宾馆
北京语言大学
东升大厦
文津国际酒店
北京大学东门
五道口
学院路
中国地质大学(北京)
水清木华园小区
东升园公寓

Beijing City Map



The road map of New Tsinghua Xuetang



Tsinghua University Map

Local Transportation

- **Beijing-Capital International Airport → Tsinghua university**

DISTANCE: Approximately 33.5 km

BY TAXI:
Fee: 105 CNY
Travel Time: 57 Min

BY SUBWAY:
Fee: 30 CNY
Travel Time: 1h 28min
Taking the Airport Line (Beijing Capital International Airport Terminal 3) → transferring Subway Line 10 at Sanyuanqiao Station (Sanyuanqiao Station) → transferring Subway Line 13 at Zhichunlu Station (Zhichunlu Station) →getting off at Wudaokou Station (out from Exit A) and walking 1.1 km
搭乘机场线（北京首都国际机场 T3 航站楼站）→ 三元桥站换乘地铁 10 号线 (三元桥站) → 知春路站换乘地铁 13 号线（知春路站）→ 五道口站（A 口出）下车步行 1.1 公里

- **Beijing Station →Tsinghua university**

- **DISTANCE:** Approximately 22.6 KM

BY TAXI:
Fee: 63 CNY
Travel Time: 48 Min

BY SUBWAY:
Fee: 5 CNY
Travel Time: 1h 21min
Taking Subway Line 2 (Beijing Railway Station) → transferring Subway Line 5 at Yonghegong Station (Yonghegong Station) → transferring Subway Line 15 at Datunludong Station (Datunludong Station) → getting off at Qinghuadongluxikou Station (out from Exit C , i.e. southeast exit) and walking
搭乘地铁 2 号线（北京站）→ 雍和宫站换乘地铁 5 号线（雍和宫站）→ 大屯路东站换乘地铁 15 号线（大屯路东站）→ 清华东路西口站（C 东南口出）下车步行

● Beijing South Station →Tsinghua university

DISTANCE: Approximately 20 KM

BY TAXI:
Fee: 60 CNY
Travel Time: 50 Min

BY SUBWAY:
Fee: 5 CNY
Travel Time: 48Min
Taking Subway Line 4 Daxing Line (Beijingnan Railway Station) → transferring Subway Line 13 at Xizhimen Station (Xizhimen Station)→ getting off at Wudaokou Station (out from Exit B, i.e. south exit) and walking 1.1 km
搭乘地铁 4 号线大兴线（北京南站） → 西直门站换乘地铁 13 号线（西直门站）→ 五道口站（A 口出）下车步行 1.1 公里

● Beijing West Station →Tsinghua university

DISTANCE: Approximately 39 KM

BY TAXI:
Fee: 42 CNY
Travel Time: 37 Min

BY SUBWAY:
Fee: 5 CNY
Travel Time: 37Min
Taking Subway Line 9 (Beijingxi Railway Station) → transferring at National Library Station for Subway Line 4 Daxing Line (National Library Station) → getting off at Yuanmingyuan Station (out from Exit C, i.e. southeast exit) and walking
搭乘地铁 9 号线（北京西站） → 国家图书馆站换乘地铁 4 号线大兴线（国家图书馆）→ 圆明园站（C 东南口出）下车步行

● Beijing-Capital International Airport → Xijiao Hotel Beijing

DISTANCE: Approximately 33.5 km

BY TAXI:
Fee: 96 CNY
Travel Time:56 Min

BY SUBWAY:
Fee: 30 CNY
Travel Time:1h 39min
Taking the Airport Line (Beijing Capital International Airport Terminal 3) → transferring Subway Line 10 at Sanyuanqiao Station (Sanyuanqiao Station) → transferring Subway Line 13 at Zhichunlu Station (Zhichunlu Station) → getting off at Wudaokou Station (out from Exit B, i.e. south exit) and walking 1.1 km
搭乘机场线（北京首都国际机场 T3 航站楼站）→ 三元桥站换乘换乘地铁 10 号线 (三元桥站) → 知春路站换乘地铁 13 号线（知春路站）→ 五道口站（B 南口出）下车步行 1.1 公里

● Beijing Station →Xijiao Hotel Beijing

● **DISTANCE:** Approximately 20 KM

BY TAXI:
Fee: 58 CNY
Travel Time:50 Min

BY SUBWAY:
Fee: 5 CNY
Travel Time:1h 21min
Taking Subway Line 2 (Beijing Railway Station)→ transferring Subway Line 13 at Xizhimen Station (Xizhimen Station)→ getting off at Wudaokou Station (out from Exit B, i.e. south exit) and walking 1.1 km
搭乘地铁 2 号线（北京站）→ 西直门站换乘地铁 13 号线（西直门站）→ 五道口站（B 南口出）下车步行 1.1 公里

● Beijing South Station →Xijiao Hotel Beijing

DISTANCE: Approximately 21.5 KM

BY TAXI:
Fee: 64 CNY
Travel Time: 48 Min

BY SUBWAY:
Fee: 5 CNY
Travel Time: 1H
Taking Subway Line 4 Daxing Line (Beijingnan Railway Station) → transferring Subway Line 13 at Xizhimen Station (Xizhimen Station) → getting off at Wudaokou Station (out from Exit B, i.e. south exit) and walking 1.1 km
搭乘地铁 4 号线大兴线（北京南站） → 西直门站换乘 13 号线（西直门站）→ 五道口站（B 南口出）下车步行 1.1 公里

● Beijing West Station →Tsinghua university

DISTANCE: Approximately 39 KM

BY TAXI:
Fee:44 CNY
Travel Time:39 Min

BY SUBWAY:
Fee: 5 CNY
Travel Time:37Min
Taking Subway Line 9 (Beijingxi Railway Station) → transferring Subway Line 4 Daxing Line at National Library Station (National Library Station) → transferring Subway Line 13 at Xizhimen Station (Xizhimen Station) → getting off at Wudaokou Station (out from Exit B, i.e. south exit) and walking 1.1 km
搭乘地铁 9 号线（北京西站） → 国家图书馆站换乘地铁 4 号线大兴线（国家图书馆站）→ 西直门站换乘地铁 13 号线 → 五道口站（B 南口出）下车步行 1.1 公里

CICTP 2018

Invited Speakers

Dr. Kang (Kenneth) An

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Dr. Kang (Kenneth) An received his B.S. degree and Ph.D. degree in Transportation Engineering from Tongji University, Shanghai, China. He also worked as a visiting research scholar in the University of Arizona, Tucson, AZ, USA during 2015 - 2106. His research interests include network modeling, dynamic traffic assignment, traffic flow theory and so on. He now works in SIAC as a senior manager in the Department of ICV Public Service Platform Building and Operation Management. He dedicated his efforts in the technologies of smart travel, connected and autonomous vehicles.

Dr. Paul Atchley

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Dr. Atchley has been conducting research and teaching about cognitive factors related to driving for over 25 years. He is currently Dean of Undergraduate Studies and professor of psychology at the University of South Florida. Dr. Atchley received his Ph.D. from the University of California, Riverside in 1996 and completed postdoctoral training at the Beckman Institute at the University of Illinois in 1998. Dr. Atchley has published numerous peer-reviewed articles and chapters on issues of vision and attention including their relationship to driving. He has also received awards for his research, teaching, service, and student advising. Dr. Atchley's work has been highlighted by national and international press such as the BBC, NPR, Rock Center, "Katie" with Katie Couric, and the New York Times. He is part of efforts at all levels to reduce distracted driving..

Dr. K.W. Axhausen

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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 behaviour measurement.

Dr. Jeff Ban

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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 Civil and Environmental Engineering (Transportation) 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 120 papers in refereed journals, as book chapters, or in conference proceedings. He is a member of the TRB's Network Modeling Committee and Vehicle-Highway Automation Committee. He is an Associate Editor of IEEE Transactions on Intelligent Transportation Systems, Journal of Intelligent Transportation Systems, and Transportation Research Part C.

Dr. Darcy M Bullock

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Dr. Darcy Bullock is the Lyles Family Professor of Civil Engineering at Purdue University and serves as the director of the Joint Transportation Research Program (JTRP). Bullock is a Registered Professional Engineer in Indiana and has 25 years of experience in the industry working closely with airports, transportation agencies, and private sector partners. Bullock's teaching, research and consulting interests have been in the general area of transportation systems and implementation of advanced technology. He received a B.S. in Civil Engineering from the University of Vermont, and a M.S. and a Ph.D. in Civil Engineering from Carnegie Mellon University.

Dr. Jason Cao

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Dr. Xinyu (Jason) Cao is a professor at the Humphrey School of Public Affairs at the University of Minnesota. His research interests include land use and transportation interactions, the effects of ICT on travel behavior, and planning for quality of life. Jason has published more than 80 articles in peer-reviewed journals, with more than 5,600 citations (Google Scholar). Jason is Co-Editor in Chief of Transportation Research Part D. He was the Chair of International Association for China Planning during 2015-17. Jason received his bachelor and master degrees from the School of Civil Engineering, Tsinghua University. He obtained his master degree in statistics and Ph.D. degree in Civil and Environmental Engineering from University of California Davis, with honors.

Dr. Kevin Chang

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Kevin Chang, Ph.D., P.E., is an Assistant Professor in the Department of Civil Engineering at the University of Idaho. His research areas include traffic safety and operations, and transportation education. Prior to his current position, Kevin was a Traffic Engineer with the King County DOT in Seattle, Washington where he managed its Traffic Management Center and supervised its School Safety Program. Kevin obtained his undergraduate and graduate degrees in Civil Engineering from the University of Washington.

Kevin is the current Chair of the Transportation Research Board's (TRB) School Transportation Subcommittee, member of the TRB Safety Management Committee, and past Chair of the Institute of Transportation Engineers' (ITE) Transportation Education Committee. He has extensive experience in workforce development and community-building activities.

Dr. Anthony Chen

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Dr. Anthony Chen is a Professor in the Department of Civil and Environmental Engineering at the Hong Kong Polytechnic University (PolyU) in Hong Kong. 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 and the Chang Jiang Chair Professor from China in 2015. Dr. Chen is currently serving as an associate editor for Transportmetrica A: Transport Science, Networks and Spatial Economics, and Journal of Advanced Transportation, and an editorial board member of Transportation Research Part B: Methodological.

Dr. Shuo Cheng

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Shuo Cheng received the B.S. degree in mechanical engineering from Harbin Institute ofTechnology, Harbin, China, in 2016. He iscurrently working toward the Ph.D. degree inmechanical engineering at the Department ofAutomotive Engineering, Tsinghua University,Beijing, China.
His research interests include vehicle dynamics states estimation and intelligent vehicle dynamics and control.

Dr. Lili Du

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Dr. Du is an associate professor at University of Florida. 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, and worked as a Research Associate at Purdue University. Dr. Du's research focuses on Connected and Autonomous Vehicle Systems, Interdependent Infrastructure Network Modeling, 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 Sciences and Technology. She is the Chair of TRB Subcommittee on Emerging Technologies in Network Modeling, and a member of TRB Committee on Transportation Network Modeling and serves on the editorial board too.

Dr. Xuting Duan

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Xuting Duan received the Ph.D. degrees from Beihang University in 2017. He is currently a Lecturer with the School of Transportation Science and Engineering, Beihang University, Beijing, China. His current research focuses on vehicle-to-anything communication systems, cooperative positioning, and localization network optimization.

Dr. Wei Fan

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Dr. Wei Fan is a tenured full professor in the Department of Civil and Environmental Engineering at University of North Carolina at Charlotte. He is the Director of the USDOT University Transportation Center for Advanced Multimodal Mobility Solutions and Education. Dr. Fan holds a Ph.D. in Civil Engineering -Transportation from the University of Texas at Austin. Dr. Fan's primary research interests include big data analytics for transportation; connected and autonomous vehicles; multimodal transportation and shared mobility; traffic system operation and control; and transportation system analysis and network modeling. Dr. Fan serves as an associate editor of IEEE Transactions – Intelligent Transportation Systems, ASCE Journal of Transportation Engineering, Part A: Systems, and International Journal of Transportation Science and Technology.

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Dr. Fan is a professor in Civil and Environmental Engineering at University of California, Davis. She is also a faculty member in graduate programs of Applied Mathematics and Business Analytics. She received her PhD in Civil Engineering at University of Southern California in 2003. Dr. Fan's research is on transportation and energy infrastructure systems modeling, with special interests in integrating applied mathematics and engineering domain knowledge to address challenges brought by system uncertainty, dynamics, and indeterminacy issues.

Dr. Zhongxiang Feng

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Dr. Zhongxiang Feng, (1982-), PhD, associate professor. He is currently the director of Institute of Transportation and Safety of HeFei University of Technology, the juridical appraiser of road traffic accident, the member of Hefei Administration of Work Safety expert group, the chairman of the technical committee of World Transport Convention (WTC) on the subject of traffic safety and environment "safety education, regulation and law", the chairman of the Science and Technology Youth Committee of China Communications and Transportation Association, the director of the Road Machinery Committee Council of Anhui Highway Society. He has taken charge of the National Natural Science Foundation of China youth projects and general projects, and has published more than 60 academic papers, among which 15 papers retrieved by SCI/SSCI published as the first author or corresponding author. He has applied for and authorized 10 patents of invention, published a textbook and a monograph, and formulated a provincial standard.

Dr. Rui Fu

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Rui Fu is a professor of automobile school at Chang'an University. She is the team leader of human vehicle system safety, Innovative Research Team of Ministry of Education. She serves as a member of National Accident Prevention Expert Team, Ministry of Public Security, State Administration of Work Safety. She is the techniquecommittee member of PIARC and the member of the Editorial Boards of the ChinaJournalofHighwayandTransport. Her research interests over the past decade focuses on driver's visual behavior and driving behavior, the risky status recognition, ADAS. She has led and conducted 23 projects for government sponsors. She has obtained 6 prizes from national and provincial government. She has published more than 120 journal papers and1 monograph.

Dr. Song Gao

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Song Gao is an associate professor of Civil and Environmental Engineering at the University of Massachusetts Amherst. Dr. Gao's research focuses on transportation network optimization and econometric and psychological models of traveler behavior, with applications in smart and shared mobility, transportation planning, and sustainable transportation systems. Dr. Gao is a member of the Transportation Research Board (TRB) Committees on Travel Behavior and Values (ADB10) and Transportation Network Modeling (ADB30), and Chair of the TRB Route Choice and Spatio-Temporal Behavior Subcommittee (ADB10(2), ADB30(3)). Dr. Gao is Associate Editor for Transportation Science and on the editorial board of the Journal of Intelligent Transportation Systems. Dr. Gao was a member of the winning team of the 2010 MacArthur Digital Media and Learning Competition. She received an honorable mention (second place) in the INFORMS Transportation Science and Logistics Dissertation Prize Competition in 2005. Dr. Gao received her Ph.D. and M.S. in Transportation from Massachusetts Institute of Technology in 2005 and 2002 respectively. She received her B.S. in Civil Engineering from Tsinghua University of China in 1999.

Dr.Yan Gao

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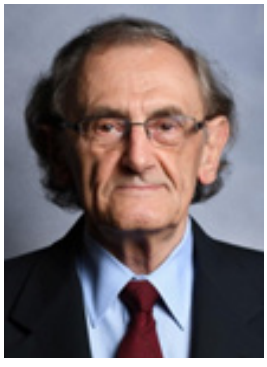
Gao Yan, male, born in January 1978, Associate Research Fellow, director of traffic safety technology department, Traffic Management Research Institute of the Ministry of Public Security. Mainly engaged in traffic accident prevention, traffic accident treatment, traffic accident identification, traffic accident data analysis, driving behavior characteristics analysis, traffic safety education product development, road safety evaluation and other fields, familiar with traffic management related business, with rich experience in traffic safety work. There were 5 national scientific research projects, 8 provincial scientific research projects. Won the first prize of the Ministry of Public Security science and technology award and the third prize. Get the national invention patent 7 and utility model more than 10, make the industry standard more than 10, publish(translate) academic works 4 and academic paper more than 60. Participate in the national road traffic safety "12th Five-Year" and "13th Five-Year" planning.

A member of the Ministry of Public Security "expert group on national road traffic accident investigation", a member of China Insurance Industry Association "national motor vehicle insurance expert committee", a member of the China CDC "Expert Committee on injury prevention and control", a member of GRSP "China road traffic accident prevention expert group", and the fourth China Transportation Association Youth Science and technology worker committee member, Southeast University graduate school outside school instructor and so on.



Dr. Nathan H. Gartner

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Dr. Gartner has had a distinguished career in traffic and transportation engineering spanning (almost) five decades. He has done extensive research on transportation systems and on traffic flow models, with special concentration on traffic control systems and strategies, and transportation network analysis. Among others, he developed OPAC, the first real-time, traffic-adaptive signal control strategy to be deployed in the U.S. and originated the MULTIBAND suite of optimization models. Dr. Gartner is the former Chairman of the Transportation Science Section of ORSA (now INFORMS) as well as the Traffic Flow Theory and Characteristics Committee of TRB. Dr. Gartner received numerous honors and awards, including the Robert Herman Lifetime Achievement Award by INFORMS and the IEEE Intelligent Transportation Systems Society Outstanding Research Award.

Dr. Ali Gholami

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Dr. Ali Gholami received his master degree from Iran University of Science and Technology in 2008. He worked 2 years for a transportation company and 2 years for Mashhad Transportation and Traffic Organization before he went to the University of Nevada Reno in 2012 as a Ph.D. student. He graduated in August 2015 and worked as a Postdoctoral Researcher at Center for Advanced Transportation Education and Research. Currently, he is an assistant professor at Golestan University, Iran.
His interests are mainly in the field of traffic operation and public transportation.

Dr. Hongzhi Guan

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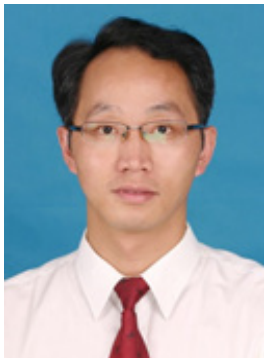

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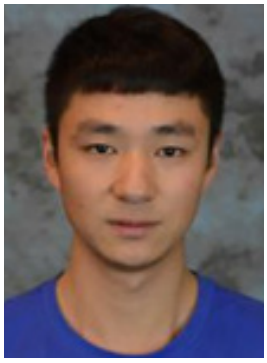

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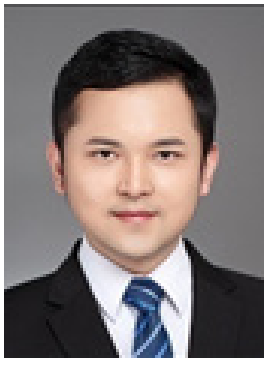

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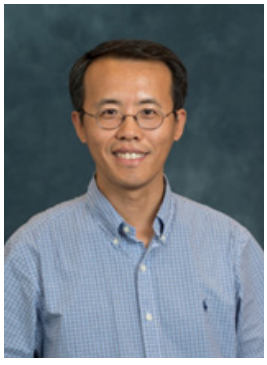

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It is home to the National Engineering Laboratory for Transportation Big-Data Technology and Application. At the Laboratory, Dr. Liu leads interdisciplinary research groups working on research areas encompassing Integrated Transportation Planning, Advanced Network Operations and Intelligent Big-Data-driven Logistics. Liu's current program of research focuses on Connected/ Autonomous Vehicle Environments, optimal control and routing policies and scheduling/ dispatching.

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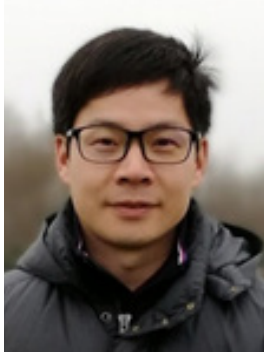

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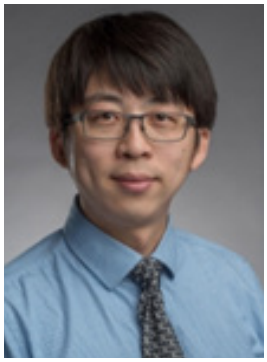

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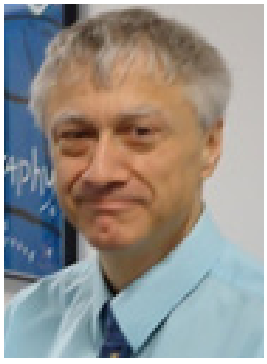

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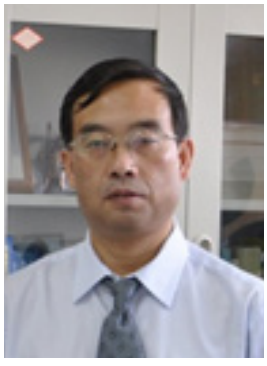

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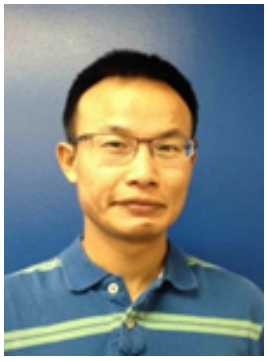

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Didi Chuxing is the world's leading mobile transportation platform. Mr. Zhang leads the creation and continuous development of DiDi's overall product, technology and big-data analytical framework, and oversees the company's evolution from a taxi-hailing app into a full mobility platform providingTaxi, Express, Premier, Luxe, Hitch, Bus, Minibus, Designated Driving, Enterprise Solutions, Bike-Sharing and food delivery services, serving over 550 million riders and 21 million drivers.

Previously, Mr. Zhang was a senior technology leader at Baidu responsible for the creation of over 10 software applications with over 100 million users each. Mr. Zhang obtained his B.S. in software engineering from Wuhan University in 2005 and his M.S. from the Chinese National Academy of Sciences in 2008, with a research focusing on human-machine interaction and artificial intelligence.

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Caiping Zhang, Professor, PhD Supervisor, IEEE Senior Member. She has nearly 15 years research experiences in management of advanced batteries. Her research interests include battery modeling and states estimation, diagnosis and prognosis, rapid life evaluation, and charging optimization. She has more than 30 peered journal publications, 7 patents of invention, 1 English book. She was awarded " Ministry of Education Technology Invention Award 1st Prize (3/6), 2015", " Beijing New-star Plan of Science and Technology, 2017".

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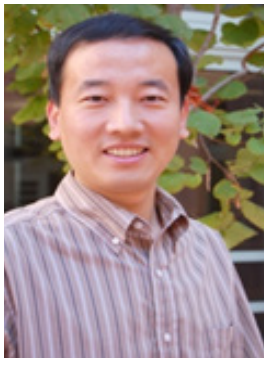
Director of the Research Department of ChinaEV100, responsible for the research projects. The main research direction in recent years include: NEV policy and local protection, OEM manufacturing model, vehicle business model, development of charging infrastructure, sustainability of the power battery industry, regulations of autopilot testing, hydrogen and FC industry, etc.



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Dr. Lei Zhang is the Herbert Rabin Distinguished Professor of Civil Engineering and Director of the Maryland Transportation Institute (MTI) at the University of Maryland. Dr. Zhang's research focuses on innovative mobility solutions, smart cities, and next-generation transportation modeling tools that are large-scale, real-time, and driven by big data. Dr. Zhang has published more than 250 peer-reviewed papers and numerous technical reports. He has received external research funding support from NSF, USDOT, USDOE, FHWA, SHRP2, AASHTO, NCHRP, and other federal and state agencies and private foundations, exceeding $37 million. Dr. Zhang is the COTA President and recently served as a member on the White House Expert Panel on 21st Century Clean Transportation System. Dr. Zhang is a recipient of the National Science Foundation CAREER Award, TRB Fred Burggraf Award, and US DOS APEC Science Prize.

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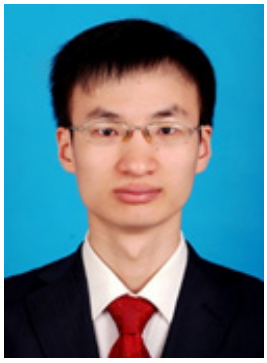

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Dr. Zhang is an expert of network modeling and system analysis with applications in air transportation, multimodal transportation, and shared mobility. Dr. Zhang aims at developing innovative methodologies and concepts for resilient, efficient, and sustainable transportation systems. She has published more than 30 journal papers, including in top transportation journals such as Transportation Research Part B, Part C, Part D, and Part E. Dr. Zhang is serving on the editorial board for Transportation Research Part C and International Journal of Sustainable Transportation, and is an invited referee for Transportation Science, Transportation Research Part A, Part B, Part C, Part D, Part E, Journal of Air Transport Management, Networks and Spatial Economics, Journal of Cleaner Production, Journal of Air Transport Management, Journal of Intelligent Transportation Systems, European Journal of Operation Research etc.
Dr. Zhang serves as the Chair for Transportation Research Board (TRB) Airfield and Airspace Capacity and Delay (AV060) committee, the Immediate Past President for Chinese Overseas Transportation Association (COTA). Dr. Zhang holds Ph.D. and M.S. from the University of California Berkeley in Civil and Environmental Engineering and Bachelors from Southeast University of China in Transportation Engineering. Dr. Zhang is the recipient of the 2010 Fred Burggraf Award, for excellence in transportation research by researchers 35 years of age or younger, presented by TRB of the National Academies of Science.

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Lin Zhao was born in Hebei China. He is now working towards master's degree in the College of AutomotiveEngineering, Chongqing University, Chongqing, China, and co-cultivation with the State Key Laboratory of Automotive Safety and Energy, Tsinghua University, Beijing, China. His research interests include Vehicle System Dynamics and Control, Electric Vehicle Chassis CoordinatedControl.

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Professor Huiying Wen worked as a teacher in Hubei University of Automotive Technology during 1986 and 1996. Since 1997, She has joined in South China University of Technology, and currently she is the associate dean of School of Civil Engineering &Transportation, director of Transportation Engineering, deputy director of Intelligent Traffic System & Modern Logistics Technology Institute. She takes charge of the Traffic System Planning Management and Safety Control Team. She has got master's tutor and doctoral tutor in Transportation Planning and Management, and she also works as a consultant on Guangzhou People's Government Transport Industry and a member of CCTA.
Professor Huiying Wen has been working on teaching and research of transportation engineering for a long time, her research field is in transportation planning, road safety control, passenger and freight transportation management, transportation economy & policy and so on. She presided over 60 projects funded by "863 Plan", "National Natural Science Foundation", "Guangdong National Natural Science Foundation", "Guangdong Industrial Science and Technology Research Plan", "Guangzhou Key Program of Science and Technology" and some other programs. Now she is engaged in research of road safety, transportation planning and highway administration.

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Dr. Zhao is a Professor and founding Dean of School of Transportation and Logistics of Dalian University of Technology, China. He was a Fulbright Scholar at Kennedy School of Government, Harvard University from 2008 to 2009 and a Visiting Scholar at the University of Texas at Austin in 1997 and Research Fellow of Japan Society for the Promotion of Science (JSPS) from 1996 to 1998. He holds a Ph.D. in urban transportation planning from the University of Tokyo, Japan.
Dr. Zhao serves as members of Committee on Intermodal Freight Transport (AT045) and Committee on Freight Transportation Planning and Logistics (AT015) of TRB and overseas invited member of International Association of Traffic and Safety Sciences (IATSS). He is a member of editorial board of International Journal of Sustainable Transportation. Dr. Zhao received International Outstanding Collaboration Award from Japan Society of Civil Engineers in 2016. He was elected as Fellow of the Faculty of Engineering, the University of Tokyo in 2017.

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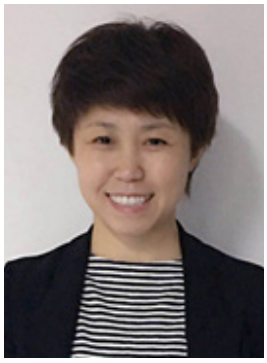

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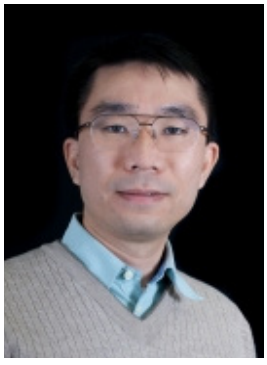
Rencheng Zheng received the Doctor of Engineeringdegree from the Kochi University of Technology in 2009. After that, he was working as a post doctor, assistant professor, and associate professor, in the Instituteof Industrial Science, The University of Tokyo. His major research interests include human factors in intelligent transportation systems, automated driving, and human–machine dynamics and control. Up to now, he achieved 214 publications in the related journals and conferences.



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Xuesong Zhou is an Associate Professor of Transportation Systems in the School of Sustainable Engineering and the Built Environment at Arizona State University (ASU) in Tempe, Arizona. He is also serving as the invited Chief Scientist of Beijing Municipal Commission of Transport. Dr. Zhou is currently an Associate Editor of Transportation Research Part C, an Associate Executive Editor-in-Chief of Urban Rail Transit, an Associate Editor of Networks and Spatial Economics, an Editorial Board Member of Transportation Research Part B. He was the formal Chair of INFORMS Rail Application Section (2016), and the Co-Chair of the IEEE ITS Society Technical Commit¬tee on Traffic and Travel Management, as well as a subcommittee chair of the TRB Committee on Transportation Network Modeling (ADB30). He has published more than 50 papers related to dynamic traffic assignment and rail operations research in many journals with an H-index of 32.

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Bing Zhu is currently a professor at State Key Laboratory of Automotive Simulation and Control, Jilin University, China. He received the B.Tech., M.S., and Ph.D. degrees in vehicle engineering from Jilin University, China, in 2005, 2007, and 2010 respectively. He has authored more than 60 papers and is a coinventor of 30 patents in China. He has involved in more than 20 sponsored projects. His research interests include intelligent integrated vehicle control, driver behavior as well as bionic engineering.

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Dr. Shanjiang Zhu is an Associate Professor of Transportation Planning and Engineering at George Mason University (GMU). He graduated from Tsinghua University with a B.S degree in 2003 and a M.S in 2005. During 2001-2003, he studied at the Ecole Centrale de Nantes, in France, as a dual-degree student. He obtained his Ph.D. degree at the University of Minnesota, Twin Cities, in 2010 and worked two years as a Research Scientist at the University of Maryland before joining GMU. Dr. Zhu is experienced in travel demand modeling, travel behavior analysis, GPS-based travel survey method, integrated transportation planning and simulation models, traffic incident management, and transportation economics. Dr. Zhu is a Co-PI of the TransInfo UTC that focuses on Big Data studies in transportation. His research work has also been funded by NSF, FHWA, VDOT and Virginia OPT3 office. He is Virginia Governor's appointee on the Technical Advisory Board of Northern Virginia Transportation Authority and is a fellow of GMU P3 policy center. Dr. Zhu is the recipient of 2014 Young Research of the Year Award, International Transport Forum, the Organization for Economic Co-operation and Development (OECD).

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Dr. Cai Ming, professor and doctoral supervisor of Sun Yat-sen University. He is the vice dean with School of Intelligent Systems Engineering, the director with Research Center of Intelligent Transportation Systems at Sun Yat-sen University and the member of Guangdong Provincial Key Laboratory of Intelligent Transportation System.
Dr. Cai's main research interests are in the traffic big data, traffic environmental engineering and ITS. He was the principal investigator for 3 national natural science foundation projects. He has authored over 60 papers in international journals and owned 13 authorized national invention patents.
Dr. Cai Ming is reviewer of international journals such as Transportation Research Part C, Transportation Research Part D, etc.

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Dr. Yufeng Gao is active in various professional organizations. He is the deputy director of the Earthquake Prevention and Disaster Reduction Committee of the Seismological Society of China. His research is in soil dynamics, earthquake engineering, soil mechanics and slope engineering.

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His publications appear in Transportation Science, Transportation Research Parts B & D, Networks and Spatial Economics, etc. He is a member of the editorial boards of Transportmetrica (B, transport dynamics), Transport Policy, Transportation Research Part D: Transport and Environment, Transport, etc. Over the years he also served as the Executive Chair of the 6th International Symposium on Travel Demand Management (TDM2013), Organizing Committee Chair of the 16th COTA International Conference of Transportation Professionals (CICTP2016), Chair of the Waterborne Transport division of the World Transport Convention (since 2017).

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Mr. Zhou Xuan has been committed to road safety at Deutscher Kraftfahrzeug-Überwachungs-Verein e.V (DEKRA) for a long term, who led several major road safety projects during working in Germany. The DEKRA Vision Zero Campaign has become an important reference for the evaluation of municipal road safety by many governments in North America and EU. In addition, he participated in setting up a platform for an active protection system used by vehicles, and which has been successfully registered a European patent on crash protection processes and crash avoidance systems. So far, Mr. Zhou is the only Chinese national forensic engineer for traffic accidents in Germany. After returning to China, Mr. Zhou serves as the director of planning and development of DEKRA in East Asia. He hopes to further expand cooperation with all partners and share the social responsibility of developing China's road safety in order to achieve win-win results.

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He has been in charge of Mianzhu to Maoxian highway project, which is one of the most important Wenchuan earthquake relief projects.
He has won the followed important honors, The 5th China road 100 outstanding engineers winner, the "10 best consulting and design personnel" of jiangsu province, and the fourth jiangsu province "333 project" developing objects.

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Dr.Zhanqiang Zhai,Male, born in 1967, is a senior engineer, with a PhD degree of Zhengzhou University of Information Engineering. Now he acts as a vice president in Bejing Yi Hua Lu Information Technology Co.ltd. He is mainly engaged in researching and products on smart traffic, big data in traffic, GIS, traffic -information service and so on. By now, several publications have been released by him, including a book and more than twenty papers on related journals and academic conferences.

Dr.Yong Qi

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Dr. Qi is the founder of LVYIN Ecology (stock code: 002887) and now serves as its President. He got his EMBA from Cheung Kong Graduate School of Business, and is the Executive Deputy Director of Inner Mongolia Chamber of Commerce in Tianjin, Deputy Director of Saline and Alkaline Land Branch of China Society of Forestry, Executive Deputy Director of Chinese Grassland Society, Executive member of the council of Tianjin Society of Landscape and Architecture, Executive member of the council of Tianjin Society of Ecology.

Mr. Zhengsheng He

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