

IET International Conference on Intelligent and Connected Vehicles (ICV 2016)



IET 2016 智能网联汽车国际会议

Organisation 会议组织概况

Organisers 主办方

- The Institution of Engineering and Technology (IET) 英国工程技术学会
- Chongqing Municipal Scientific and Technological Commission 重庆市科学技术委员会
- China Automotive Engineering Research Institute Co., Ltd (CAERI) 中国汽车工程研究院股份有限公司
- Chongqing University 重庆大学

Co-Organiser 协办方

- Chongqing Hi-Tech Incubation Center 重庆市高技术创业中心

Organizing Committee Chair 会议组织委员会主席

- Fei XIE, CAERI 谢飞, 中国汽车工程研究院股份有限公司

Technical Programme Committee Chair 会议技术委员会主席

- Keqiang LI, Tsinghua University 李志强, 清华大学
- Yusheng LI, Chang'an Automotive Engineering Research Institute 黎予生, 长安汽车工程研究总院

Date and Venue 日期及地点

- 22-23 September 2016 2016 年 9 月 22-23 日
- Conference Hall at CAERI 重庆, 中国汽车工程研究院股份有限公司学术报告厅
- Address: No.9 Jinyu Ave., New North Zone, Chongqing 重庆市北部新区金渝大道 9 号

Language 会议语言

The conference language will be both English and Chinese. Simultaneous interpretation is arranged, please have your ID to borrow the equipment 英文及中文，请携带身份证领取同传设备。

Shuttle Bus 巴士

Shuttle bus will be arranged during the conference 会议期间会安排往返酒店与会场的巴士

22 September 2016 2016年9月22日	<ul style="list-style-type: none">8:10am - from Kingtown Hotel to CAERI 君顿两江酒店出发，开往会场。入住朗琴酒店的参会人员可步行至君顿乘车。8:30am - from Crowne Plaza to CAERI 保利酒店出发，开往会场18:00pm - from CAERI to hotel 会场出发，开往酒店
23 September 2016 2016年9月23日	<ul style="list-style-type: none">8:30am - from hotel to CAERI 酒店出发，开往会场10:40am - from CAERI to hotel 会场出发，开往酒店

Subway 轻轨

Line 6: Lijia Station 轻轨 6 号线：礼嘉站



Contacts 联系人

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- Ning ZHU 朱宁 CAERI 中国汽研 M: 135 4582 5391
- Fang WANG 王芳 CAERI 中国汽研 M: 130 6237 1697

Programme 大会议程

Thursday, 22 September 2016 2016 年 9 月 22 日, 星期四	
08:30 -- 09:30	Registration 报到注册
Plenary Session 主旨报告 Conference Hall 学术报告厅 (1 st floor, Conference Centre 会议中心一楼)	
Chair: Fei XIE, Vice-General Manager and member of board of China Automotive Engineering Research Institute Co., Ltd. China 主持: 谢飞, 中国汽车工程研究院股份有限公司董事、副总经理	
09:30 -- 09:40	Chair's opening speech and introduction of VIPs 大会主席开幕致辞及来宾介绍 Fei XIE, Vice-General Manager and member of board of China Automotive Engineering Research Institute Co., Ltd.(CAERI) 谢飞, 中国汽车工程研究院股份有限公司董事、副总经理
09:40 -- 09:45	China Automotive Engineering Research Institute Co., Ltd.(CAERI) representative opening speech 中国汽车工程研究院股份有限公司领导致辞
09:45 -- 09:50	Chongqing Science and Technology Commission representative opening speech 重庆市科学技术委员会领导致辞
09:50 -- 09:55	Joseph Du, IET China Country Manager opening speech 开幕致辞: 杜伟, IET 英国工程技术学会中国区总经理
09:55 -- 10:00	David Bull, Deputy Director China, Advanced Manufacturing & Transport at UKTI 开幕致辞: 毕伟, 英国贸易投资总署尖端制造及交通行业副总监
10:00 -- 10:30	Refreshment & Poster Session & VIP Photo Shooting 茶歇、海报展示、VIP 嘉宾合影
Session Chair: Keqiang LI Professor and Dean of Department of Automotive Engineering at Tsinghua University, China 主持: 李国强, 清华大学教授、博士研究生导师	
10:30 -- 10:50	Keynote speech from Dr. Michiel van Ratingen, Secretary-General of Euro NCAP (European New Car Assessment Program) 主旨演讲: Michiel Van Ratingen 博士, 欧盟新车安全评鉴协会秘书长 Topic: Vehicle Ratings for a New Safety Era 主题: 新安全时代的汽车评级
10:50 -- 11:10	Keynote speech from Fei XIE, Vice-General Manager and member of board of China Automotive Engineering Research Institute Co., Ltd.(CAERI) 主旨演讲: 谢飞, 中国汽车工程研究院股份有限公司董事、副总经理 Topic: Current development and future trends of China intelligent and connected vehicle 主题: 中国智能网联汽车发展现状及未来趋势

11:10 -- 11:30	<p>Keynote speech from Dr. Phil Blythe, Professor of Intelligent Transport Systems Chief Scientific Advisor, Department for Transport, Newcastle University, UK 主旨演讲: Phil Blythe 教授, 英国纽卡斯尔大学交通运输系首席科学顾问, 智能交通系统研究专家 Topic: C-ITS and Automated Vehicles: Challenges and Opportunities 主题: 智能网联交通系统和自动化车辆: 挑战与机遇</p>
11:30 -- 11:50	<p>Keynote speech from Professor Feng Gao, Chongqing University 主旨演讲: 高峰教授, 重庆大学 Topic: A way of automatic driving under complex traffic conditions- Human-machine cooperation 主题: 复杂交通环境下的自动驾驶之路--人机共驾</p>
11:50 -- 12:10	<p>Keynote speech from Dr. Yusheng Li, Changan Automotive Engineering Research Institute, China 主旨演讲: 黎予生博士, 长安汽车工程研究总院, 总工程师</p>
12:10 -- 13:30	Poster Session & Lunch 海报展示及午餐
13:30 -- 15:30	<p style="text-align: center;">Panel Discussion & Media/Audience Q&A 主题讨论及媒体观众问答</p> <p>Panel Discussion Chair 主题讨论主持人 Xichan ZHU, Tongji University, China 朱西产教授, 同济大学</p> <p>Panel Discussion Topic 主题讨论话题 What changes will the intelligent and connected vehicles bring to the Chinese traditional transportation and automotive industry and how should China advances its development? 智能网联汽车将如何改变传统汽车及交通产业? 中国应如何实际推进?</p> <p>Panel Discussion Procedure 主题讨论流程 13:30 --- 13:40 Chair's introduction of the panel discussion procedure 主持人介绍主题讨论流程 13:40 --- 14:10 Each panellist give their opinion on the topic 每位主题讨论小组成员就讨论话题给出各自见解 14:10 --- 15:10 Chair propose questions to the panellist, discussion and debate 主持人与小组成员互动, 组员间讨论及辩论 15:10 --- 15:30 Media and audience Q & A 媒体及观众提问</p> <p>Panellist includes 小组讨论成员包括 Representatives from Government & Industry 政府及行业代表:</p> <ul style="list-style-type: none"> • Weijie GONG, Deputy Secretary General of SAE-China (Society of Automotive Engineers of China) 公维洁, 中国汽车工程学会副秘书长 • Dr. Michiel van Ratingen, Secretary-General of Euro NCAP Michiel Van Ratingen 博士, 欧盟新车安全评鉴协会秘书长 • Simon Duan, Investment Specialist from UKTI

	<p>段晓明博士，英国贸易投资总署投资专员</p> <ul style="list-style-type: none"> • Weiyun Jiao, Deputy Secretary-General of National Technical Committee on Intelligent Transportation Standardization 焦伟贇，全国智能运输系统标委会副秘书长 <p>Representatives from company and R&D center 企业代表:</p> <ul style="list-style-type: none"> • Xiaohua Chen, Executive Vice President of New Technology Research Institute, BAIC Group 陈效华博士，北汽集团新技术研究院常务副院长 • Xinyong Zhao, Director and Vice President of E-Hualu 赵新勇，北京易华录信息技术股份有限公司董事、常务副总裁 <p>Representatives from Academia 学术代表:</p> <ul style="list-style-type: none"> • Keqiang LI, Professor and Dean of Department of Automotive Engineering at Tsinghua University 李富强，清华大学教授、博士研究生导师 • Phil Blythe, Professor of Intelligent Transport Systems Chief Scientific Advisor, Department for Transport, Newcastle University Phil Blythe 教授，英国纽卡斯尔大学交通运输系首席科学顾问，智能交通系统研究专家
15:30 -- 15:50	Refreshment & Poster Session 茶歇及海报展示
Thursday, 22 September 2016 2016 年 9 月 22 日，星期四	
Oral Presentation Session A : Advanced Driver Assistance Technologies 口头报告分会场 A: 高级驾驶辅助技术 Conference Room 205 会议室 205	
Session chair 分论坛主持人 <ul style="list-style-type: none"> ● Yusheng LI, Chang'an Automotive Engineering Research Institute, China 黎予生，长安汽车工程研究总院 ● Ning BIAN, Dongfeng Motor Corporation, China 边宁，东风汽车公司 	
15:50 -- 16:00	Session chair's welcome and introduction speech
16:00 -- 16:15	A1 (0034) The research on the vehicle collision avoidance control based on vehicle motion estimation Ren Yue, Zheng Ling, Li Zhe, Yang Wei, Li Yinong, Wang Ke, Li Yusheng, Xiong Zhoubing
16:15 -- 16:30	A2 (0036) Obstacles Detection based on Millimetre-wave Radar and Image Fusion Techniques Mo Chunmei, Li Yinong, Zheng Ling, Ren Yue, Wang Ke, Li Yusheng, Xiong zhoubing
16:30 -- 16:45	A3 (0039) Research on control strategy of automatic emergency brake system based

	on Prescan Xiong Hu, Ling Zheng, Yue Ren, Yilong Li, Zhengfei Zhan, Yusheng Li, Qiang Zhang, Zhoubing Xiong
16:45 -- 17:00	A4 (0042) Predictive fuel-saving optimization of an Ecological Driving Assistance System H Shu, Y X Wang, F Gao, L Huang, R Zheng
17:00 -- 17:15	A5 (0049) Economic Driving Assistance System Considering Power Demand and Traffic F Gao, G Q Ming
17:15 -- 17:30	A6 (0062) Research of Vehicle Automatic Emergency Braking System Evaluation Methods Chao Chen, Qin Xia
Oral Presentation Session B: Connected Driving Technologies 口头报告分会场 B: 汽车网联化技术 Conference Room 206 会议室 206	
Session chair 分论坛主持人 <ul style="list-style-type: none"> ● Feng GAO, Professor at Chongqing University, China 高锋, 重庆大学 ● Yulong Zhu, SAIC General Motors Corporation, China 朱玉龙, 通用汽车 	
15:50 -- 16:00	Session chair's welcome and introduction speech
16:00 -- 16:15	B1 (0005) A decoupling method for distributed control of vehicular platoons with V2V Feng Gao, Shengbo Li, Tao Chen, Keqiang Li, Fei Xie
16:15 -- 16:30	B2 (0006) Intelligent vehicle wireless position algorithm fusing bp neural networks and weighted least squares method Zhiqi Zhang, Jiangfeng Wang, Chao Wang, Xuedong Yan
16:30 -- 16:45	B3 (0028) Energy-efficient car-following speed trajectory optimization using linear programming Shaofeng Lu, Fei Xue, Tiew On Ting, Yang Du
16:45 -- 17:00	B4 (0074) AVL Connected Powertrain David Barbe, Stephen Jones

Oral Presentation Session C: Highly Automated Driving Technologies & Standards and Testing Technologies

口头报告分会场 C: 高级自动驾驶技术及标准和测试技术

Conference Room 203 会议室 203

Session Chair 分论坛主持人

- **Ling ZHENG, Professor at Chongqing University, China**
郑玲, 重庆大学
- **Tao CHEN, China Automotive Engineering Research Institute Co., Ltd, China**
陈涛, 中国汽研

15:50 -- 16:00	Session chair's welcome and introduction speech
16:00 -- 16:15	C1 (0009) Designing and calibrating trust through situational awareness of the vehicle (SAV) visual feedback G Filip, X Meng, G Burnett, C Harvey
16:15 -- 16:30	C2 (0010) Lane-level Positioning System Based on RFID and Vision C Zheng, C Libo, Y Linbo, Q Qin, Z Ruifeng
16:30 -- 16:45	C3 (0035) Research on Fusion Estimation of Vehicle State Based on GPS Information Wei Yang, Ling Zheng, Yue Ren, Zhe Li, Yinong Li, Zhenfei Zhan, Yusheng Li, Zhoubing Xiong
16:45 -- 17:00	C4 (0040) Study of Causation Mechanism and Dynamic Feature for Typical Rear End Situations in China-FOT Sun Xiaoyu, Zhu Xichan, Li Lin, Ma Zhixiong
17:00 -- 17:15	C5 (0051) Longitudinal modelling and simulation of autonomous platoon vehicle Yang Liangyi, Sun Dihua, Xie fei, Deng zhangzhen
17:15 -- 17:30	C6 (0077) State-of-the-art of Designs for Battery Packs for Next-Generation Electric Vehicles Akhil Garg, Fangyuan Chen, Jian Zhang

Poster Presentation Session 海报展示	
15:50 – 17:45	Poster Display 论文海报展示
17:30 – 18:00	Poster Presentation Tour 论文海报介绍
PO001 (0026) Driver Behaviour Characteristics Identification Strategies based on the Bionic Intelligent Algorithms Bing Zhu, Zhipeng Liu, Jian Zhao, Yizhou Chen, Weiwen Deng	
PO002 (0027) Research of user experience testing and evaluating on mobile phone-car connection product Gang Guo, BangBei Tang, Na Xu	
PO003 (0019) Recent Advances in Connected Vehicles via Information-Centric Networking Z Zhu, J Loo	
PO004 (0031) Research on Electrical/Electronic Architecture for Connected vehicles J Wang, D G Yang, X M Lian	
PO005 (0033) Energy management of plug-in hybrid electric vehicles using road grade preview Yonggang Liu, Jie Li, Datong Qin, Zhenzhen Lei	
PO006 (0057) Study on the influence of tire pressure to tire mechanical properties Dang Lu, Chuan Wang, Zhihua Pang, Qianjin Liu, Yichi Zhang, Ze Lin	
PO007 (0063) Combined Planning Strategy for Charging Infrastructures and Distribution Network Integrated with District Information Shuoya Tang, Junyong Liu, Yue Xiang, Qiao Peng, Xiangyang An	
PO008 (0066) Energy Consumption Optimization of Vehicle Power System Based on Big Data KaiSheng Huang, Jianye Huang, RongSheng Lin, DaKai Yu	
PO009 (0020) Sensorless control of permanent magnet synchronous motor for electric vehicle drive Shaofang Wu	

PO010 (0030) A Control Strategy of Regenerative Braking System for Intelligent Vehicle Li Zhe, Zheng Ling, Ren Yue, Yang Wei, Li Yinong, Gao Feng, Li Yusheng, Xiong Zhoubing
PO011 (0046) A review of condition assessment of charging infrastructure for electrical vehicles Xi Chen, Tianyan Jiang, Maoqiang Bi, You Wang, Haowei Gao
PO012 (0053) An Electromagnetic Interference Pre-test Platform for vehicle-borne radar and electronic terminal system test Qingwen Han, Jianmei Lei, Lingqiu Zeng, Lei Xiao
PO013 (0056) The Development Strategy Research on Intelligent and Connected Vehicle of American, Europe, and Japan Y Chen, T Chen, P Chao
PO014 (0065) Research on User Experience for In-Vehicle Infotainment Lan Wei, Chen Hai-yang, Zhang Chi, Cheng Ting, Wei Si-ning
Friday, 23 September 2016 2016 年 9 月 23 日, 星期五
<div> <div> Technical Visit 技术参观 （可选择参加，免费活动） </div> <div> Time: 09:00 – 10:30 时间: 09:00 – 10:30 </div> <div> Location: China Automotive Engineering Research Institute Co., Ltd 地点: 中国汽车工程研究院股份有限公司 </div> </div>
Technical visit information 参观内容 <ul style="list-style-type: none"> Research laboratory related to Intelligent and Connected Vehicle 实验室（安全中心-电动汽车 -EMC -NVH） Testing and demonstration of ADAS 智能网联汽车高级辅助驾驶系统测试及演示

Chairman 大会主席

Conference Chair 大会主席

Fei XIE, China Automotive Engineering Research Institute Co., Ltd (CAERI) , China



Mr. Fei Xie, researcher-level senior engineer, is enjoying special government allowance. At present he holds the position of board director and Deputy General Manager of China Automotive Engineering Research Institute Co., Ltd. Graduated from Automotive Engineering of Jilin University in July 1983, he has been engaged himself in research, management of automotive and ITS area for more than 30 years. He has published more than 30 papers. As project leader, he has led the team to complete a number of national 973 and 863 project researches. And also he served as Distinguished Expert in the Ministry of Science and Technology, China Association of Automobile Manufacturers, ITS, China Intelligent Transportation Expert Committee, National Standardization Committee, etc.

谢飞先生，中国汽车工程研究院股份有限公司董事、副总经理，中国

研究员级高工，政府特殊津贴专家，现任中国汽车工程研究院股份有限公司董事、副总经理。

1983 年 7 月毕业于吉林大学汽车专业，从事汽车、ITS 相关领域研发、设计、管理工作 30 多年。

曾发表过 30 多篇著作，作为课题负责人带队完成过多项国家“973”和“863”课题攻关，并兼任国家科技部、中国汽车工程协会、ITS 协会、中国智能交通专家委员会、全国标准化专家委员会等专家职务。

Chairman 技术委员会主席

Technical Programme Committee Chair 技术委员会主席

Prof. Keqiang LI, Tsinghua University, China



Professor Keqiang Li, Doctor of Engineering and professor of Chang Jiang Scholars Program. His main social positions are as followed: expert committee director of China Industry Technology Innovation Strategic Alliance for the Intelligent and Connected Vehicles, expert group leader of Beijing Intelligent Network Driving Technology Innovation Project, editorial board of International Journal of Vehicle Autonomous Systems and International Journal of Automotive Technology. His research directions are as follows: 1.Intelligent vehicle and intelligent transportation system technology; 2.Intelligent environment friendly vehicle control. He has engaged in a number of technical researches in foreign automobile enterprises, national institute and university for nearly six years, obtained more than 80 invention patents at home and abroad, won 2 terms national technology invention second prize and 3 terms provincial and ministerial level scientific and technological progress first prize, and published more than 180 SCI/EI indexed papers.

李克强教授，清华大学，中国

工学博士、教育部长江学者特聘教授，主要的社会职务有中国智能网联汽车产业技术创新战略联盟专家委员会主任、北京市智能网联驾驶技术创新工程专家组组长、International Journal of Vehicle Autonomous Systems、International Journal of Automotive Technology 编委。研究方向：1.智能汽车与智能交通系统技术；2.智能环境友好型汽车整车控制。先后近六年在海外汽车企业、国立研究所和大学从事多项技术研发工作，获得国内外发明专利 80 余项，获国家技术发明二等奖 2 项，省部级科技进步一等奖 3 项，发表 SCI/EI 检索论文 180 余篇。

Chairman 技术委员会主席

Technical Programme Committee Chair 技术委员会主席

Dr. Yusheng LI, Chang'an Automotive Engineering Research Institute, China



Dr. Yusheng Li graduated from Clemson University, Department of mechanical engineering, Ph. D., in 1999. He is currently working as the Chief Engineer at Changan Automotive Engineering Research Institute. And in the past he has worked as the senior engineer at General Motors from 2008 to 2010. Since 1999, Dr. Li has worked at the Ford Motor Company in the United States and general motors as senior product design engineer, presided over the development of the automobile front collision warning system (forward collision warning - FCW), reasonable diagnosis (rational diagnostics) and many other projects. His research output has been applied to many Ford products.

Dr. Li also won the "China automotive industry science and technology award" for designing of active safety technology based on Critical System Safety and pre collision mitigation and avoidance system in the perspective of parameters optimization design and lightweight key technology integration. And he is also in the China "Thousand Talents Program"

黎予生博士，长安汽车研究总院总工程师，中国

黎予生，2011 年入选第六批国家“千人计划”，主要从事汽车先期技术研究应用领域工作。现任长安汽车研究总院总工程师。2010 年 11 月，黎予生博士加盟重庆长安汽车股份有限公司。作为长安先期技术的领军人，致力于长安汽车主动安全系统关键技术研究工作，带领着技术团队开发了汽车倒车刹车辅助系统、主动安全高位刹车灯，建立了主动安全实验室用于控制算法仿真分析、硬件在环测试、实车测试，制定了《基于毫米波雷达的前撞报警系统实车测试规范》等多项规范。在汽车轻量化技术创新方面，承担了科技部十二五项目《汽车关键轻量化技术开发与整车的集成应用》，获得国拨资金 1489 万，通过突破车身参数化轻量化设计关键技术和应用其它技术，实现白车身减重 10%、整车减重 5% 的目标，安全性达到 NCAP4 星级及以上要求。目前，已完成白车身参数化建模以及单目标的拓扑优化分析，为实现长安汽车十二五轻量化目标并应用打下了坚实的基础。黎予博士牵头组建的先期技术研究中心，已由 7 人发展到 66 人，已发展为涉及主动安全、车身轻量化、先期技术规划和环保材料等多项领域的研发团队。黎予生博士现为重庆市“百人计划”特聘专家，于 2011 年担任重庆市科技进步奖评审专家。

Keynote Speakers 演讲人

Dr. Michiel van Ratingen, European New Car Assessment Program (Euro NCAP), Belgium



Michiel van Ratingen, PhD., PDEng., Msc. (1966) is a graduate from the Eindhoven University of Technology and the Medical University of Maastricht in the Netherlands and received his PhD degree in 1994. Michiel joined TNO Automotive in 1995 where he was involved in vehicle crash safety research and development, first as crash test dummy design engineer and later in more senior research roles. In 2005 he joined First Technology Safety Systems (now Humanetics Innovative Solutions), the world leading crash test dummy manufacturer, as the company's Technical Director in the USA. He was responsible for all engineering activities, including design and validation of crash test dummies, dummy sensors and computer models.

Since 2007 Michiel is acting Secretary General of the European New Car Assessment Program Euro NCAP in Brussels, Belgium. This small but highly influential organisation has been at the forefront of ensuring that automobile manufacturers selling into the European market compete with each other on safety. Under his leadership, Euro NCAP has continued to drive innovation in vehicle safety in a number of ways. He has initiated the organisations' strategic planning process and developed an effective working relationship with the automotive industry.

Michiel van Ratingen 博士，欧盟新车安全评鉴协会，比利时

Michiel van Ratingen 博士毕业于埃因霍芬理工大学，并于 1994 年获得博士学位。Michiel 与 1995 年加入 TNO 汽车，从事汽车碰撞的研究工作。他于 2005 年加入“第一技术安全系统”公司（现为“首美安全系统设备”公司），该公司为世界领先的碰撞测试假人制造商。Michiel 在美国担任公司技术总监，全面负责技术性工作，包括碰撞测试假人、虚拟传感器及计算机模型的设计与验证。2007 年起 Michiel 一直担任欧盟新车安全评鉴协会（Euro NCAP）秘书长。这个精简但极具影响力的机构一直致力于确保汽车厂商在欧洲销售汽车的时候将安全性能作为其主要卖点及核心竞争力。在他的领导下，Euro NCAP 持续的推动车辆安全在多方面的创新。他还开启了组织的战略规划，并与汽车行业建立了有效的工作关系。

Keynote Speakers 演讲人

Prof. Phil Blythe, Newcastle University, UK



Phil Blythe is Professor of Intelligent Transport Systems and Director of the Transport Operations Research Group. His research interests cover a range of ITS areas and focus on the fusion of technology and policy themes. These include road user charging, smartcard systems, wireless adhoc networks, telematics to support elderly and the mobility impaired and mobile information delivery systems. Most recently he has led a great deal of the research onto Electric Vehicles and their associated Charging Infrastructure, both in the UK and Europe. He is internationally recognized as an early pioneer of ITS research and holds several international, European and National positions in the ITS and related arenas.

Phil Blythe 教授，纽卡斯尔大学，英国

Phil Blythe 先生是智能交通领域的专家，同时也是交通运输研究中心的主任他的研究领域涵盖智能交通领域的许多方面，主要集中在科技与政策的融合。包括道路使用管理，智能芯片系统，AD HOC 网络技术，支持老年人和行动障碍者的远程信息处理技术和移动信息提交系统等方面。近期在英国和欧洲，他引领了大量的关于电动车辆及其相关联的基础设施建设的研究。他是国际上知名的智能交通领域的先锋，他在智能交通及其相关领域的许多国际性的，欧洲和国家的机构中占有一席之地。

Keynote Speakers 演讲人

Prof. Feng GAO, Chongqing University, China



Feng Gao is employed by the “100 Talented Plan” of Chongqing University as a professor and doctoral supervisor. He graduated from the Department of Automotive Engineering at Tsinghua University in Feb. 2007. After graduation, he worked as a senior engineer in Electronic & Electrical Center of Changan Auto. Global R&D Centre until Feb. 2013, where he has led several projects involving electromagnetic compatibility, durability test of electronic module, electronic and electrical architecture design, advanced driver assistance technologies and engine control system development. From Feb. 2013, he has been working in Chongqing University. His current research interests include vehicle electromagnetic compatibility, intelligent and connected vehicle. He has led more than 20 projects including 3 national projects and 7 ministry/provincial ones. He is the author of more than 50 peer-reviewed journal and conference papers, among which more than 20 are cited by SCI/EI, and co-inventor of 11 patents in China.

高锋教授，重庆大学，中国

教授，博士生导师，重庆大学“百人计划”。2007年2月毕业于清华大学车辆工程专业，2007年2月～2013年2月就职于长安汽车工程研究总院电装中心，高级工程师，室主任。先后负责汽车电磁兼容性、软硬件可靠性、电子电气架构、先进驾驶辅助系统和电喷系统的开发工作。2013年2月起，就职于重庆大学，主要从事汽车电磁兼容性和智能互联汽车的相关技术研究。先后承担各类项目20多项，其中国家级3项，省部级7项。发表论文近50篇，其中SCI/EI检索20多篇，申请/授权发明专利11项。

Panel Discussion Chair 主题研讨主持人

Prof. Xichan ZHU, Tongji University, China



Dr.Zhu was born in June, 1962 and graduated from Taiyuan Heavy Machinery Institute, major in engineering machinery and then become a teacher there. He received his doctor's degree of engineering in Automobile Department of Tsinghua University. From 1996-2005, he worked in the field of Car collision safety technology at Chinese Automotive Technology & Research Center and held the position of deputy chief engineer of National Automobile Quality Supervision Test Center as well as chief expert in the area of automotive passive safety technology. He has been teaching in Automobile Department of Tongji University since Nov, 2005 and held the position of director of Automotive Safety Technology Research Institute. Dr.Zhu was the first in the country to carry out automotive crash safety research work in 1992. His research on vehicle crash test and analysis system has won the first prize of Science and Technology Progress Award led by Ministry of Machinery Industry and other national-level awards. He presided over China's first international advanced level laboratory of real car collision. His project of fuzzy control traction motor actual vehicle crash tests developed system won the 2001 Automotive Industry Technology Progress Award, "car side impact safety technology research and application "won the 2004 Automotive Industry Science and Technology progress Award. He won the 1999 Annual Award for young scientists the automobile industry. He has published more than 60 papers.

朱西产教授，同济大学，中国

1962 年 6 月出生，1983 年毕业于太原重型机械学院工程机械专业，留校任教，1995 年在清华大学汽车系获得工学博士学位。1996-2005 年在中国汽车技术研究中心从事汽车碰撞安全技术研究工作，任国家汽车质量监督检验中心副总工程师，汽车被动安全技术领域首席专家。2005 年 11 月进入同济大学汽车学院任教授，汽车安全技术研究所所长。

1992 年率先在我国开展汽车碰撞安全性研究工作，《汽车碰撞试验与测试分析处理系统研究》获得 1996 年度机械工业部科技进步一等奖、汽车工业科技进步一等奖、1997 年度国家科技进步二等奖。主持开发了我国第一个达到国际先进水平的实车碰撞实验室，《模糊控制电机牵引式实车碰撞试验系统的研制》获得 2001 年度汽车工业科技进步二等奖，《汽车侧面碰撞安全技术的研究及应用》获得了 2004 年度汽车工业科技进步二等奖。获得了 1999 年度汽车工业青年科技人才奖，发表学术论文 60 余篇。

Panel Discussion Speaker 主题研讨嘉宾

Weijie GONG (Amelie), Deputy Secretary General of SAE-China (Society of Automotive Engineers of China), China



Ms. Gong, Deputy Secretary General of SAE-China (Society of Automotive Engineers of China), Secretary General of CAICV (China Alliance for Intelligent Connected Vehicles). Ms. Gong joined SAE-China since 2006. She used to be the Deputy Director of International Cooperation, Director of Technical Events. Now she works as the Deputy Secretary General, in charge of technical alliance for Intelligent Connected Vehicles, technical events, international cooperation, and technical magazine. Ms. Gong also works as the VP-Internal Relations of FISITA (International Federation of Automotive Engineers Societies).

公维洁，中国汽车工程学会副秘书长，中国

公维洁，中国汽车工程学会副秘书长、智能网联汽车产业技术创新战略联盟秘书长。自 2006 年加入中国汽车工程学会，历任国际合作部副部长，学术交流部部长，副秘书长。现负责智能网联汽车联盟、学术交流、国际合作、学术期刊等工作。社会兼职：国际汽车工程学会联合会（FISITA）国际关系副主席

Panel Discussion Speaker 主题研讨嘉宾

Dr. Simon DUAN, UK Trade and Investment, UK



Simon Duan is an Investment Specialist working for UK Trade and Investment. His work focuses on providing strategy consultancy service to Chinese companies, including introduction of technology resources and market opportunities in the UK, advising Chinese companies on their overseas expansion strategy, forging partnership between UK and Chinese companies.

In the last few years, Simon has helped many Chinese companies to establish R&D base in the UK and to build technology-based partnerships with UK companies, universities and R&D organisations. With his help a number of those companies have upgraded their technology capability and moved up the value chain by setting up and sustaining successful operations in the UK. The companies Simon has helped including SAIC, Changan, Geely, AVIC, CSR, etc.

段晓明博士，英国贸易投资总署，英国

现任英国贸易投资总署投资专员的段晓明博士平时常住英国伦敦。在国内出差的时间主要用于为中国企业提供海外发展的战略咨询服务，包括分析英国可利用的技术资源，介绍英国市场出现的商机，建议合理有效地利用这些资源的实施方案，帮助在中英企业之间建立优势互补，强强联合的实质性的伙伴关系，达到合作双方双赢的目的。

段博士在近几年中协助了许多中国企业在英国建立了基地，包括上汽，长安，吉利，南车，中航等。运用巧妙的商业模式，这些中国企业有效地掌控了技术交流的主动权。借助英国丰富的技术资源，快速提升了自身的技术实力，培养了大批技术人才。不仅提升了在国内市场的竞争力，还通过在英国的基地成功地进入了欧洲市场。

Panel Discussion Speaker 主题研讨嘉宾

Weiyun JIAO, Deputy Secretary-General of National Technical Committee on Intelligent Transportation Standardization



At present, Ms. Jiao holds the positions of Deputy Secretary-General of National Technical Committee on Intelligent Transportation Standardization (SAC/TC268), Deputy Secretary-General of China ITS Industry Alliance, program committee member of ITS World Congress, program member of ITS Asia-Pacific, etc. She presided over 10 projects, such as National Science & Technology Pillar Program, National High Technology Research and Development Program of China (863 Program), Transportation information technology project, projects from Asian Development Bank, World Bank, Global Environment Facility, etc. She also took part in over 40 standard settings, like national standard, industrial standard and group standard.

焦伟赞，全国智能运输系统标委会副秘书长，中国

目前担任全国智能运输系统标委会（SAC/TC268）副秘书长、中国智能交通产业联盟副秘书长，智能交通世界大会程序委员会委员，亚太智能交通协会程序委员等工作。先后主持参加了国家科技支撑项目、863 项目、交通运输信息化科技项目, 亚行、世行、全球环境基金项目 10 余项，参加了国标、行标、团体标准 40 余项。

Panel Discussion Speaker 主题研讨嘉宾

Xiaohua CHEN, New Technology Research Institute, BAIC Group, China



Mr.Xiaohua Chen, professor-level senior engineer, received a doctor's degree in mechanical engineering from NUST in 1995. He is engaged in auto forward-looking technology R&D and management. He once served as president of Central Research Institute, Forward-looking Technology Academy and Automobile Engineering Research Institute in Wuhu of Chery Automobile Co. Ltd.

陈效华博士，北汽集团新技术研究院常务副院长，中国

教授级高级工程师，1995 年获南京理工大学机械工程博士学位，长期从事汽车前瞻技术规划、研发与管理工作。曾组建奇瑞中央研究院、奇瑞前瞻技术科学院、芜湖市汽车产业技术研究院，并任研究院院长。

主持开展汽车前瞻技术项目 70 余项，863 项目负责人 3 项，国家自然科学基金重大专项项目负责人 1 项。发表学术论文 80 余篇，独立及合作申报专利 237 项，其中发明专利 173 项。

Panel Discussion Speaker 主题研讨嘉宾

Dr. Xinyong ZHAO, E-Hualu, China



Dr. Xinyong Zhao, he is a research fellow who obtained the Doctor of Engineering of Harbin Institute of Technology, majored in transportation planning and management and was one of the "New Century Hundred Talents Project" national candidates in 2009 and enjoying the State Council special allowance. After graduated in 1991, Dr. Zhao was assigned to the Traffic Management Research Institute of the Ministry of Public Security and successively served as the Department Director, Assistant of the Director, Deputy Director, besides he held the concurrent posts as the executive vice-director of the National Engineering and Technological Research Center for Traffic Management and the General Manager of Wuxi Huatong Intelligent Transportation Technology Co., Ltd. In 2011, he was transferred to be the Deputy Director of Road Traffic Safety Research Centre of Ministry of Public Security, and re-transferred in December 2014 to take the position of the Management Board Member of E-Hualu and the Chief Executive of the Intelligent Traffic System BG.

赵新勇博士，北京易华录信息技术股份有限公司董事 常务副总裁，中国

赵新勇博士，毕业于哈尔滨工业大学交通运输规划与管理专业，研究员，2009年“新世纪百千万人才工程”国家级人选，享受国务院特殊津贴。1991年毕业分配至公安部交通管理研究所，历任部门主任、所长助理、副所长，兼任国家道路交通管理工程技术研究中心常务副主任、无锡华通智能交通技术有限公司总经理，2011年调任公安部道路交通安全研究中心副主任，2014年12月调任北京易华录信息技术股份有限公司任经营管理委员会委员、智能交通 BG 总裁。

Session Chair 分论坛主持人

Mr. Ning BIAN, Dongfeng Motor Corporation, China



Dr. Ning Bian, graduated in Germen, professor status senior engineer, Deputy Director of Vehicle Department in Dongfeng Motor Technology Center. Since 2005, he focused on automotive safety and electronics field in Germen automotive industry, especially in automobile integrated chassis control technology, active safety technology and the most advanced technology of automatic driving. He has mastered a large number of core technology and accumulated development experience. He has published researches of vehicle dynamics control on VDI Publishing house which is famous in automobile industry in Germen, also he has published a lot of papers in high level professional and academic journals at home and abroad. He has more than 30 high level invention patents in Germany, Europe, the United States etc. He is special expert of Hubei Provincial Recruitment Program of Global Experts, expert of Wuhan Huanghe Talent Plan, and expert of Hubei Chenguang Plan.

边宁博士，东风汽车公司整车部副部长，中国

边宁, 研究员级高级工程师、东风汽车技术中心整车部副部长、德国博士毕业。自 2005 年起在德国汽车行业专注于汽车安全与电子的专业领域，特别是汽车集成底盘控制技术、主动安全技术以及自动驾驶最前沿的高科技技术方向的研发和应用工作，积累了大量的核心技术和开发经验。在德国著名的汽车行业出版社 VDI 出版过车辆动力学控制的著作；在国内外高水平的专业杂志和学术期刊上多次发表过学术文章；且拥有 30 多项德国、欧洲、美国和高水平发明专利。湖北省“百人计划”特聘专家, 武汉市“黄鹤英才”专家，湖北省“晨光计划”专家。

Session Chair 分论坛主持人

Mr. Yulong ZHU, SAIC General Motors Corporation, China



Mr. Yulong Zhu, Master of Engineering in Detection Technology and Instrument of Shanghai Jiaotong University, is a senior product engineer in GM China Technology Center. He has worked in Lear China technology center for 3 years and now has working in GM China technology center for 6 years. He has nine years professional experience of new energy vehicles. He mainly engaged in new energy automobile electronic work and has a deep understanding and practice in the charging system, battery systems and electronic electrical architecture as well as made some preliminary study in low speed unmanned. He has published a number of papers, including the automotive electronic hardware design etc. He set up a official accounts on WeChat of automotive electronics design.

朱玉龙先生，通用汽车资深产品工程师，中国

朱玉龙, 上海交通大学检测技术与仪器工学硕士研究生, 现任通用汽车中国技术中心资深产品工程师。曾在李尔中国技术中心任职 3 年, 目前在通用汽车中国技术中心已任职 6 年, 拥有 9 年的新能源汽车专业从业经验。主要从事新能源汽车电子化工作, 在充电系统、电池系统和电子电气架构方面有较深的认识和实践, 对低速无人驾驶这块做了一些初步研究。曾发表多篇论文, 包括《汽车电子硬件设计》等, 开设《汽车电子设计》公众号。

Session Chair 分论坛主持人

Prof. Ling ZHENG, Chongqing University, China



Ling Zheng is a professor and doctoral tutor of Automobile Engineering Department, Chongqing University. She is also the Dean of Automobile Engineering Department. She got her bachelor and MS degrees in Chongqing University in 1984 and in 1989 respectively. She received her PhD from Chongqing University in Automobile Engineering in 2005. After that, she started to do research in Mechanical Engineering Department, University of Maryland, USA as a post-doctor from August 2005 to August 2007. She worked in INHA University from July 2008 to September 2008 and National University of Singapore from January 2009 to May 2009 as a guest research scientist. Her current research interests include Vehicle System Dynamics and Control, ADAS systems and so on. She runs over 30 projects including national “973” plan, National Natural Science Foundation of China, Major Industrial Projects in Chongqing and Enterprise Cooperation Projects in recent years. She published paper over 150 and has more than 10 patents. She is also fellow member of vehicle suspension techniques in SAE china, technical committee member for vehicle book publishing in SAE china, regular committee member in Formula SAE and editor board member for international journal “Advances in Mechanical Engineering”

郑玲教授，重庆大学，中国

教授、博士生导师，重庆大学汽车工程系系主任。1984年本科毕业于重庆大学，2005年在重庆大学车辆工程专业获得博士学位。2005年8月～2007年8月在美国马里兰大学机械工程系做博士后研究。2008年7月～2008年9月韩国仁荷大学机械工程系客座研究员。2009年1月～2009年5月新加坡国立大学机械工程系客座研究员。从事汽车系统动力学与控制、ADAS系统的研发。发表论文近150篇，获得10项发明专利，2009年获重庆市自然科学二等奖一项。近年来承担国家“973”项目、国家自然科学基金项目、重庆市重大产业专项以及企业项目30余项。担任中国汽车工程学会悬架技术委员会理事、中国汽车工程学会图书出版专家委员会委员、中国大学生方程式赛车规则委员会委员以及国际杂志“Advances in Mechanical Engineering”的编委。

Session Chair 分论坛主持人

Mr. Tao CHEN, China Automotive Engineering Research Institute Co., Ltd, China



Tao Chen received the PhD. and Bachelor degree in Automotive Engineering from Tsinghua University. He is currently working as Deputy Director for Intelligent Vehicle Testing & Evaluation Center, China Automotive Engineering Research Institute, and he is leading the V2X, Automated vehicle testing and engineering services to automotive industry. In his career from 2012 till now, he participated in several advanced research projects on Advanced Driver Assistant Systems (ADAS), V2X, and automated vehicle development. He has published 10 SCI/EI indexed papers and owns 3 patents about intelligent vehicle technologies.

陈涛博士，中国汽车工程研究院股份有限公司智能汽车测试评价中心副主任，中国

陈涛，博士， 高级工程师，中国汽车工程研究院股份有限公司智能汽车测试评价中心副主任。

2012 年博士毕业于清华大学车辆工程专业。ISO TC204/WG14 国际标准化组织智能驾驶工作组专家，主要从事电动汽车功能安全、智能汽车先进驾驶辅助系统、自动驾驶、车联网等方面的研究。

共计发表学术论文 20 余篇，其中 EI 收录 10 余篇，SCI 收录 3 篇。

Organisers 主办方



The Institution of Engineering and Technology

The IET is one of the world's largest engineering institutions with more than 167,000 members in 150 countries. It is also the most multidisciplinary – to reflect the increasingly diverse nature of engineering in the 21st century. Energy, transport, manufacturing, information and communications, and the built environment: the IET covers them all.

The IET is working to engineer a better world by inspiring, informing and influencing our members, engineers and technicians, and all those who are touched by, or touch, the work of engineers.

IET 英国工程技术学会

英国工程技术学会是工程技术领域的全球顶级专业学术学会，其前身是创建于 1871 年的 IEE (英国电气工程师学会)。2006 年 3 月，英国电气工程师学会 IEE 和英国企业工程师学会 (IIE) 合并，更名为英国工程技术学会 (IET)。在近一百四十年的历史中，IET 对人类的科技进步做出了巨大的贡献，会员中涌现了大量的优秀人物，例如 2009 年诺贝尔物理奖获得者高锟先生。

目前，IET 学会在全球 150 个国家拥有近十六万七千会员。是学会所涉及的领域范围内，欧洲规模最大、全球第二的国际专业工程学会。英国工程技术学会 IET 的专业分类包括能源电力、交通运输、信息与通信、设计与制造、建筑环境 5 大行业，40 多个专业领域。其总部设在英国伦敦，并分别在美国，中国，印度均设有办事处。IET 在全球有 1600 多家企业合作伙伴，如世界知名的微软、Intel、思科、IBM、施耐德、华为、英国石油、英国电信和英国航太系统公司等。

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中国汽研
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China Automotive Engineering Research Institute

China Automotive Engineering Research Institute Co.,Ltd.(CAERI),established in March 1965, is a first-class state-owned institute. In 2012, CAERI was listed in Shanghai Stock Exchange (stock code: 601965). On 26th, Oct.2013, the new headquarter was fully completed and put into use.

CAERI is mainly engaged in technical services including R&D, consulting, test and evaluation; as well as manufacturing of key components and test equipment for special vehicles, rail transit, gas system and electrical vehicle driving system.

中国汽车工程研究院股份有限公司

中国汽车工程研究院股份有限公司（股票简称：中国汽研，股票代码：601965）始建于 1965 年 3 月，原名重庆重型汽车研究所，系国家一类科研院所。2012 年 6 月 11 日，中国汽研在上海证券交易所正式挂牌上市。公司注册资本：64,078.6578 万元。2013 年 10 月，中国汽研研发和测试新基地建成并投入使用。中国汽研主要从事汽车研发、咨询、测试和评价领域的技术服务业务和专用汽车、轨道交通关键零部件、汽车燃气系统及其关键零部件、电动汽车驱动系统、汽车及零部件试验检测设备的制造业务。

Organisers 主办方



Chongqing Automotive Collaborative Innovation Center

Chongqing Automotive Collaborative Innovation Center was established jointly by Changan Automobile Company Limited, China Automotive Engineering Research Institute Co., Ltd., Chongqing Tsingshan Industrial Co., Ltd., Chaoli Hi-tech Co., Ltd., Bright Industrial Co., Ltd., Southwest Aluminum Industrial Co., Ltd., Chongqing University of Technology and Chongqing University of Posts and Telecommunications under the leadership of Chongqing University, following the principle of “upstream and downstream coordination of the industrial chain, powerful combination and complementary advantages”. The establishment was also supported by the University of Michigan and Ford Motor Company. In October 2014, Chongqing Automotive Collaborative Innovation Center was formally recognized as a national collaborative innovation center in a document jointly issued by the Ministry of Education and the Ministry of Finance. It is also the first national collaborative innovation center recognized by the Ministry of Education and the Ministry of Finance in Chongqing.

重庆自主品牌汽车协同创新中心

重庆自主品牌汽车协同创新中心由重庆大学牵头，联合长安汽车、中国汽研、青山工业、超力高科、博耐特、西南铝业、重庆理工大学、重庆邮电大学等企业和院所，在美国密西根大学和福特汽车支持下，按照“产业链上下游协同，强强联合、优势互补”的原则组建。2014年10月，教育部、财政部联合发文，正式认定“重庆自主品牌汽车协同创新中心”为国家级协同创新中心，是重庆直辖市首个被教育部和财政部认定的国家级协同创新中心。

Co-organised by 联合主办



CQ HI-TECH INCUBATION CENTER

Established in 1988, Chongqing Hi-tech Incubation Center used to be one of the first batch of pioneers among the centers in the hi-tech incubation service at the state level in China and is one of the earliest three international enterprise incubators certified by the former State's Commission of Science and Technology and the UN's Development Program (UNDP). It is also the leader in the service industry of technical incubations in Chongqing.

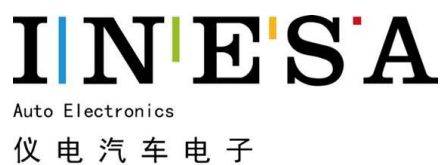
In addition, CHIC initiated the establishment of Chongqing Incubation Base for Undergraduates' Entrepreneurship, Chongqing Incubator Association, Chongqing Association of Hi-Tech Enterprises, Chongqing Invention Association, and Chongqing Study of Innovation Methods. It has as well established the Incubation Center of New Energy together with UN's CONDUIT Foundation and published the journal of "Venture in Chongqing." Moreover, the office of Chongqing International Science and Technology Exchange Center, Cooperation Base for Sino-Russian International Cooperation in Science and Technology are also located in the Chongqing Hi-tech Incubation Center.

重庆高技术创业中心

重庆高技术创业中心成立于 1988 年，是中国最早的一批国家级高新技术产业服务中心，经原国家科委及联合国开发计划署（UNDP）共同认定为中国首批三家国际企业孵化器之一，系重庆市科技孵化服务行业的领头羊。

中心发起成立了重庆大学生创业孵化基地、重庆孵化器协会、重庆市高新技术企业协会、重庆市发明协会、重庆市创新方法研究会，与联合国 CONDUIT 基金联合建立了新能源孵化中心，创办了《重庆创业》杂志。重庆市对外科技交流中心和中俄国际科技合作基地办公室也设在重庆高技术创业中心。

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