CICV 2024

第十一届国际智能网联汽车技术年会

The 11th International Congress of Intelligent and Connected Vehicles Technology

2024年6月18-20日 中国·北京 ┃ Beijing·China, June 18-20, 2024

程序册 PROGRAM

迈向车路云一体化规模应用新阶段

Moving Towards a New Stage of Large-scale Applications of Vehicle-road-cloud Integration

云相册

公众号

官网 / Website
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主办单位 / Organizers

中国汽车工程学会
China Society of Automotive Engineers

国家智能网联汽车创新中心
National Innovation Center of Intelligent and Connected Vehicles

清华大学车辆与运载学院
School of Vehicle and Mobility, Tsinghua University

SKL ISVM 清华大学
智能绿色车辆与交通全国重点实验室
State Key Laboratory of Intelligent Green Vehicle and Mobility, Tsinghua University

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6月18日 June 18th

				6月18日 June 18th		
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6月19日 June 19th

				6月19日 June 19th		
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6月20日 June 20th

				6月20日 June 20th		
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T 专题论坛 Thematic Forum　S 国际边会 Side Meeting　X X论坛 X Forum　　备注:🈯 为提供同传服务的会场 🈯 will provide Chinese-English simultaneous translation　　备注:🖥 为免费进入的会场　SESSIONS MARKED WITH 🖥 ARE FREE TO ENTER

AUTOMOTIVE INNOVATION

CALL FOR PAPERS

Feature Topic on Intelligent Transportation Systems

Yongfu Li
Professor at Chongqing University of Posts and Telecommunications, China

Xiaozheng (Sean) He
Associate Professor at Rensselaer Polytechnic Institute, USA

Simone Baldi
Professor at Southeast University, China

Michael W Levin
Assistant Professor at University of Minnesota, Twin Cities, USA

Srinivas Peeta
Professor at Georgia Institute of Technology, USA

Xianbiao Hu
Assistant Professor at Pennsylvania State University, USA

Hang Zhao
Assistant Professor at Chongqing University of Posts and Telecommunications, China

Feature Topic Highlights

- Traffic collaborative perception and prediction methodologies and techniques
- End-edge-cloud communication techniques considering spectrum resources constraints
- Mixed traffic modelling methodologies under complex environments
- Decision-making strategies amidst human behavior uncertainty and/or unforeseen disturbances
- Traffic control methodologies based on human-vehicle-road coordination
- Traffic flow optimization with integrated ICV behavior modelling
- Artificial intelligence approaches for enhancing traffic efficiency and safety
- Sustainable transportation solutions leveraging ITS technologies
- Interoperability for seamless integration of ITS components
- ITS innovations to support public transportation systems

Submission Deadline: Oct. 31, 2024

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国家智能网联汽车创新中心太和桥智慧园区平面图
National Innovation Center of Intelligent and Connected Vehicles Park Map

国家智能网联汽车创新中心
National Innovation Center of Intelligent and Connected Vehicles
北京市大兴区融兴北三街39号
No. 39, Rongxing North 3rd Street, Daxing District, Beijing

N

融兴北四街 Rongxing North 4th Street
瑞合西二路 West 2st Road
瑞合西一路 West 1st Road
日新楼 Rixin Building
智汇楼 Zhihui Building
沁怡楼 Qinyi Building
行知楼 Xingzhi Building
融兴北三街 Rongxing North 3rd Street
园区入口 Entrance

VIP停车区（地上）VIP Parking Area
VIP落客区 VIP Drop-off Area
车库行人出入口 Guest Entrance
班车点 Shuttle Bus
地下停车场入口 Parking Area

试制试装中心 Trial Production Center
签到区 Registration Area
VIP室 VIP Reception Area
日新楼多功能厅B Conference Hall B
展览区域 Exhibition Area
第一会议室 Conference Room 1
日新楼多功能厅A Conference Hall A
日新楼 Rixin Building
入口 Entrance
智汇楼 Zhihui Building
入口 Entrance
沁怡楼 Qinyi Building
101会议室 Conference Room 101
餐区 Lunch Area
采访中心 Interview Center
园区入口 Entrance

签到区 Registration Area
会议区 Conference Area
采访中心 Interview Center
餐饮/休息区 Dining & Rest Area
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- 国家智能网联汽车创新中心 National Innovation Center of Intelligent and Connected Vehicles
- 清华大学车辆与运载学院 School of Vehicle and Mobility, Tsinghua University
- 清华大学 智能绿色车辆与交通全国重点实验室 State Key Laboratory of Intelligent Green Vehicle and Mobility, Tsinghua University

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江苏大学	Jiangsu University
上海国际汽车城（集团）有限公司	Anting · Shanghai International Automobile City
同济大学汽车学院	School of Automotive Studies, Tongji University
野村综合研究所	Nomura Research Institute Shanghai,Ltd.
中国汽车工程学会汽车基础软件分会	Automotive Basic Software Committee, China SAE
中国汽车工程学会汽车智能座舱分会（筹）	China Society of Automotive Engineers Automotive Intelligent Cockpit Branch(Preparatory)
中国汽车工程学会智能网联汽车系统架构分会	China SAE Branch of ICV System Architecture
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中国智能网联汽车产业创新联盟	China Industry Innovation Alliance for the Intelligent and Connected Vehicles
中日产业投资促进协会	China-Japan Industrial Investment Promotion Association

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- CICV 创新中心
- 中国智能网联汽车产业创新联盟 China Industry Innovation Alliance for the Intelligent and Connected Vehicles
- 汽车工程 AUTOMOTIVE ENGINEERING
- AUTOMOTIVE INNOVATION
- 汽车之友 Auto Fan
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- Testing 汽车测试网 www.auto-testing.net
- 智车星球
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- 帮宁
- 鹰知 汽车科技 Automotive Technology
- 泰伯网
- 车东西
- 汽车观察 AUTOMOTIVE OBSERVER
- RoboX
- 汽车俱乐部 plus
- 7its.com

迈向车路云一体化规模应用新阶段
Moving Towards a New Stage of Large-scale Applications of Vehicle-road-cloud Integration

14:00-18:20
6月18日 / Jun.18th

日新楼 · 多功能厅A&B
Rixin Building · Conference Hall A&B

会议信息 / Information

开幕式 Opening Ceremony

主持嘉宾 / Moderator
张进华 / ZHANG Jinhua
中国汽车工程学会理事长，国家智能网联汽车创新中心执行主任
President of China SAE
Executive Director of National Innovation Center of Intelligent and Connected Vehicles

14:00-14:40

领导致辞 / Address

工业和信息化部领导
Leader from Ministry of Industry and Information Technology

翁孟勇 / WENG Mengyong
中国公路学会第九届理事会党委书记、理事长
Secretary of the Party Committee & President of China Highway and Transportation Society

李骏 / LI Jun
中国汽车工程学会名誉理事长，中国工程院院士，清华大学教授
Honorary President of China SAE
Academician of Chinese Academy of Engineering
Professor of Tsinghua University

主旨报告 Keynote Speech

主持嘉宾 / Moderator
侯福深 / HOU Fushen
中国汽车工程学会副理事长兼秘书长
Vice President & Secretary General of China SAE

主持嘉宾 / Moderator
王建强 / WANG Jianqiang
中国汽车工程学会会士，清华大学车辆与运载学院院长、教授
Fellow of China SAE; Dean and Professor, School of Vehicle and Mobility, Tsinghua University

日程 / Agenda

14:40-15:00
车路云一体化的产业发展现状与建议
Industrial Development Status and Suggestions on Vehicle-road-cloud Integration
李克强 / LI Keqiang
中国汽车工程学会副理事长、会士，中国工程院院士，清华大学教授，国家智能网联汽车创新中心首席科学家
Vice President & Fellow, China SAE; Academician of Chinese Academy of Engineering; Professor of Tsinghua University
Chief Scientist of National Innovation Center of Intelligent and Connected Vehicles

15:00-15:20
加速推动智能网联汽车的应用与推广
Accelerate the Application and Promotion of Intelligent and Connected Vehicles
朱华荣 / ZHU Huarong
重庆长安汽车股份有限公司董事长
Chairman of Chongqing Changan Automobile Co., Ltd.

15:20-15:40
车路云一体化发展思考与一汽红旗探索实践
FAW Hongqi's Thoughts and Practice on Vehicle-road-cloud Integration
梁贵友 / LIANG Guiyou
中国汽车工程学会副理事长，中国第一汽车集团有限公司党委常委、副总经理
Vice President of China SAE; Standing Committee Member and Deputy General Manager of the Party Committee, CHINA FAW GROUP CO., LTD.

15:40-16:00
向智而行 引领智电融合新发展
Move Towards Intelligence: Leading the New Development of Intelligent and Electric Integration
廉玉波 / LIAN Yubo
中国汽车工程学会副理事长、会士，比亚迪集团首席科学家、汽车总工程师、汽车工程研究院院长
Vice President & Fellow, China SAE; Chief Scientist & Chief Automotive Engineer & Director of Automotive Engineering Research Institute, BYD

16:00-16:20
车路云网图的北京探索及发展思考
王磊 / WANG Lei
北京经开区工委委员、管委会副主任

16:20-16:40 茶歇 / Coffee Break

16:40-17:00
AI原生的云计算，加速汽车行业智能化升级
AI-Native Cloud Computing, Accelerates the Intelligent Upgrade of the Automotive Industry
李强 / LI Qiang
阿里云智能集团副总裁
VP, Alibaba Cloud Intelligence Group

17:00-17:20
车路云协同和一体化在欧美的发展
Development of Vehicle-road-cloud Collaboration and Integration in US and Europe
冉斌 / RAN Bin
美国威斯康星大学麦迪逊分校"维拉斯杰出成就"教授，世界交通运输大会 (WTC) 学部委员会主席
Vilas Distinguished Achievement Professor, University of Wisconsin-Madison;
Chairman, Faculty Committee, World Transport Convention (WTC)

17:20-17:40
宝马的智能升级——智能豪华出行与纯粹驾驶乐趣新境界
BMW's Intelligent Practice in China - The New Dimension of Driving Pleasure
雷凯 / Robert KAHLENBERG
宝马中国研发中心高级副总裁
SVP, BMW R&D China

17:40-18:00
通往零事故愿景之路——梅赛德斯-奔驰的智能网联汽车发展
Our Vision of Accident Free Driving - The Mercedes-Benz Approach to ICV
欧立甫 / Oliver LOECHER
梅赛德斯-奔驰 (中国) 投资有限公司高级执行副总裁，梅赛德斯-奔驰中国研发和采购负责人
Senior Executive Vice President RD&MP Mercedes-Benz Group China ltd., Chairman MB Digital Tech ltd.

18:00-18:20
场景驱动，打造面向未来EE架构的智能车芯
Scene-driven, Creating Intelligent Vehicle Chips for Future-oriented EE Architecture
仇雨菁 / Maggie QIU
芯驰科技联合创始人、董事
Co-founder and Board Director of SemiDrive

拥抱人工智能 构建智能网联汽车产业新生态
Embracing AI, Building a New ICV Industrial Ecosystem

09:30-12:20
6月18日 / Jun.18th

日新楼·多功能厅A
Rixin Building · Conference Hall A

会议信息 / Information

会议主席 / Chairperson

张亚勤 / ZHANG YA-QIN
中国工程院外籍院士,清华大学智能产业研究院院长
Foreign Academician of Chinese Academy of Engineering; Dean of Institute for
AI Industry Research(AIR), Tsinghua University

主持嘉宾 / Moderator
薛建儒 / XUE Jianru
西安交通大学人工智能学院教授
Professor, College of Artificial Intelligence, Xi'an Jiaotong University

李升波 / Shengbo Eben LI
清华大学车辆与运载学院党委书记、长聘教授
Tenured Professor and Chairman of School of Vehicle and Mobility, Tsinghua University

学术联络人 / Academic Liaison

徐月云 / XU Yueyun
国家智能网联汽车创新中心智能事业部总经理
General Manager of Intelligent Department, National Innovation Center of Intelligent and Connected Vehicles

陈桂华 / CHEN Guihua
中国汽车工程学会汽车智能化与未来出行研究中心标准与咨询部部长、中国智能网联汽车产业创新联盟副秘书长、国家智能网联汽车
创新中心标准与咨询部部长
The Head of Standards and Consulting Department, Automotive Intelligence and Future Mobility Research Center, CSAE; Deputy Secretary General of
CAICV; The Head of Standards and Consulting Department,CICV

协办单位 / Co-organizer

北京亦庄智能城市研究院集团有限公司
Beijing Yizhuang Smart City Research Institute Co., Ltd.

会议简介 / Introduction

基于智算数据平台支撑和海量数据驱动的智能驾驶研发新范式已成为众多车企和智能驾驶解决方案公司的研发共识,人工智能与智能网联汽
车产业正在深度融合,智能网联汽车产业生态也正在发生新的变化。本论坛围绕智能网联汽车的算力、算法、数据等方面的热点话题展开研讨,
探讨人工智能时代下智能网联汽车的技术创新、产业趋势与发展机遇。

The new paradigm of intelligent driving research and development, supported by intelligent data platforms and driven by vast data, has become a consensus among numerous
automotive manufacturers and solutions providers. Artificial intelligence (AI) and intelligent connected vehicles (ICV) are deeply integrating, and the ICV industrial ecosystem
is undergoing new changes. This forum focuses on hot topics such as computing power, algorithms, and data for ICV, exploring technological innovation, industry trends, and
development opportunities of ICV in the era of AI.

日程 / Agenda

时间	内容
09:30-09:35	**主席开场发言 / Chairperson Opening Address**
09:35-09:40	致辞 / Address **张进华 / ZHANG Jinhua** 中国汽车工程学会理事长,国家智能网联汽车创新中心执行主任 President of China SAE; Executive Director of CICV
09:40-09:45	致辞 / Address **应盛 / YING Sheng** 联合国人居署中国办公室国家官员 National Officer, UN-Habitat China Office, UN-Habitat
09:45-10:10	科技东风 AI赋能——东风跃迁行动中的AI实践及思考 Sci-Tech Dongfeng: AI Empowerment - AI Practices and Reflections in Dongfeng Leap Forward Action **杨彦鼎 / YANG Yanding** 东风汽车集团有限公司研发总院院长 Director of Dongfeng Motor Corporation Research and Development Institute
10:10-10:35	通用人本智能创造汽车新价值 Humanistic AGI for New Generation Automobile **杨小康 / YANG Xiaokang** 上海交通大学人工智能研究院教授、常务副院长 Professor, Executive Vice-President, Artificial Intelligence Institute, Shanghai Jiao Tong University
10:35-11:00	大模型与认知智能 重塑自动驾驶研发范式 LLM and Cognition Intelligence Re-innovate Autonomous Driving **郎咸朋 / LANG Xianpeng** 理想汽车智能驾驶副总裁 VP of Intelligent Driving, Li Auto
11:00-11:25	生成式模型及其在强化学习中的应用 Generative Models and Their Applications in Reinforcement Learning **朱军 / ZHU Jun** 清华大学计算机系博世AI教授、清华大学人工智能研究院副院长、IEEE/AAAI Fellow Bosch AI Professor at the Department of Computer Science, Tsinghua University; Vice Dean of the Institute for Artificial Intelligence, Tsinghua University; IEEE/AAAI Fellow
11:25-11:50	人工智能引领智能体验架构创新与发展 Artificial Intelligence Leading Innovation and Development of Intelligent Experience Architecture **陈勇 / CHEN Yong** 吉利汽车研究院(宁波)有限公司数据智能开发中心主任 Data Intelligence Development Center Director, Ningbo Geely Automobile Research and Development Co., Ltd.
11:50-12:15	迎接自动驾驶的大规模商业化时代 Autonomous Driving: Embracing the Era of Large-Scale Commercialization **张宁 / ZHANG Ning** 小马智行副总裁、北京研发中心负责人 Vice President, Head of Beijing R&D Center, Pony.ai

备注 / Note
每位演讲嘉宾有20分钟发言+5分钟观众问答时间
Each Speaker will have 20 minutes for speech and 5 minutes for Q&A

"人工智能+汽车"深度融合——打造开放共用车用操作系统的未来之路
Deep Integration of "AI+Automobile": The Future of Open and Shared Vehicle Operating System

🕐 **09:30-12:05**
6月19日/Jun.19th

📍 **日新楼·多功能厅A**
Rixin Building · Conference Hall A

会议信息 / Information

会议主席 / Chairperson

胡事民 / HU Shimin
中国科学院院士,清华大学计算机科学与技术系教授,中国计算机学会副理事长
Academician of Chinese Academy of Sciences; Professor of Computer Science and Technology Department,Tsinghua University; Vice President of CCF

张文杰 / ZHANG Wenjie
国家智能网联汽车创新中心副主任,中汽学会汽车基础软件分会秘书长
Vice Director of National Innovation Center of Intelligent and Connected Vehicles; Secretary General of Automotive Basic Software Committee, China SAE

学术联络人 / Academic Liaison

陈俊伊 / CHEN Junyi
国家智能网联汽车创新中心技术专家,中国汽车工程学会汽车基础软件分会副秘书长
Technologist of National Innovation Center of Intelligent and Connected Vehicles; Vice Secretary General of Automotive Basic Software Committee, China SAE

主持嘉宾 / Moderator

余卓平 / YU Zhuoping
中国汽车工程学会会士,同济大学汽车学院教授
Fellow of China SAE; Professor, Tongji University

罗蕾 / LUO Lei
电子科技大学嵌入式软件工程中心主任、教授
Professor, Director of Embedded Software Engineering Center, University of Electronic Science and Technology of China

协办单位 / Co-organizer

中国汽车工程学会汽车基础软件分会
Automotive Basic Software Committee, China SAE

会议简介 / Introduction

人工智能与汽车基础软件的深度融合,不仅能够显著提升自动驾驶感知、决策和控制的速度和精度,还能优化数据的处理和学习机制,使得汽车能够持续积累经验实现自我进化。本次主论坛充分整合"汽车+计算机"跨界资源,邀请胡事民院士以及来自高校/科研院所、OEM、Tier1、软硬件、零部件企业的资深专家与学者、企业首席技术专家等,围绕"人工智能+车用操作系统""中央集中式E/E架构""下一代智驾解决方案""下一代异构芯片"等行业关注的重点难点和热点话题进行讨论,共同寻求解决方案和创新路径。

The deep integration of artificial intelligence and automotive basic software can not only significantly enhances the speed and accuracy of autonomous driving perception, decision-making and control, but also optimizes data processing and learning mechanism, enabling vehicles to continuously accumulate experience and achieve self-evolution. The main forum fully integrates the cross-border resources of " automobile + computer " , inviting academician Hu Shimin, senior experts and chief technical experts from universities / research institutes, OEM, Tier1, software and hardware, parts and components enterprises, etc.The key difficulties and hot topics of " Artificial Intelligence + Vehicle Operating System" " Central Centralized E / E Architecture" " Next Generation Intelligent Driving Solution " " Next Generation Heterogeneous Chip "are discussed to jointly explore solutions and innovation paths.

日程 / Agenda

09:30-09:40 嘉宾致辞 / Address

胡事民 / HU Shimin
中国科学院院士,清华大学计算机科学与技术系教授,中国计算机学会副理事长
Academician of Chinese Academy of Sciences; Professor of Computer Science and Technology Department,
Tsinghua University; Vice President of CCF

09:40-09:55
AI和智能化汽车双向奔赴的解决方案
The Solution of Two-Way Efforts Between AI and Intelligent Vehicles
周时莹 / ZHOU Shiying
一汽研发总院HIS平台CEO
CEO of HIS Platform, China FAW R&D General Institute

09:55-10:10
面向 AI+SOA 的汽车软件工程演进之路
The Evolution of Automotive Software Engineering for AI+SOA
张衡 / ZHANG Heng
东风汽车集团股份有限公司研发总院副院长
Vice President of DONGFENG Motor Corporation Research & Development Institute

10:10-10:25
车用操作系统基线版本引领软硬件创新,抢占全球自驾竞争先机
The Baseline Version of Vehicle Operating System Leads the Innovation of Software and Hardware integration, Seizing the Initiative of Global Self-driving Competition
张文杰 / ZHANG Wenjie
国家智能网联汽车创新中心副主任,中汽学会汽车基础软件分会秘书长
Vice Director of National Innovation Center of Intelligent and Connected Vehicles;
Secretary General of Automotive Basic Software Committee, China SAE

10:25-10:35
发布仪式:节能与新能源技术路线图3.0车用操作系统技术路线共识发布
Technology Roadmap for Energy Saving and New Energy Vehicles 3.0 Operating System Technical Route Consensus Release

10:35-10:50
通过内核组件化支持车用操作系统的分层解耦与定制化开发
Supporting Layered Decoupling and Customized Development of Automotive Operating Systems through Kernel Modularization
陈渝 / CHEN Yu
清华大学计算机科学与技术系长聘副教授
Tenured Associate Professor, Department of Computer Science and Technology, Tsinghua Univeristy

10:50-11:05
智能汽车基础软件测试技术分析与展望
Analysis and Prospect of Intelligent Vehicle Basic Software Testing Technology
彭鑫 / PENG Xin
复旦大学计算机科学技术学院副院长、教授
Professor, Deputy Dean, School of Computer Science and Technology, Fudan University

11:05-11:20
打造开放安全的汽车电子智能生态底座
Building an Open and Secure Foundation for Automotive Electronic Intelligence Ecosystem
刘建业 / LIU Jianye
中兴通讯股份有限公司汽车电子产品规划总经理
General Manager, ZTE Intelligent Automotive Electronics Product Planning

11:20-11:35
面向具身智能时代——智能网联汽车中央计算平台开发与实践
Toward the Age of Embodied Artificial Intelligence: Development and Practice of Central Computing Platform for Intelligent Connected Vehicles
冯硕 / FENG Shuo
北京汽车研究总院有限公司院长助理兼智能网联中心主任
Assistant to the President of Beijing Automotive Research Institute Co., Ltd. Director of the Intelligent Networking Center

11:35-11:50
舱驾一体芯片的技术演进和现实挑战
Technology Trends and Challenges of Cockpit and Autopilot Fusion Chips
何铁军 / HE Tiejun
黑芝麻智能芯片和架构副总裁
Vice President,SOC & Architecture

11:50-12:05
舱驾融合演进中虚拟化的价值与挑战
The Value and Challenge of Virtualization in the Progress of Cockpit-ADAS Fusion
钟卫东 / ZHONG Weidong
中瓴智行(成都)科技有限公司首席战略官
Chief Strategy Officer, ZlingSmart Technology Co., Ltd.,Chengdu

智能网联汽车安全
Safety of Intelligent Connected Vehicles

14:00-17:00
6月19日 / Jun.19th

日新楼·多功能厅A
Rixin Building · Conference Hall A

会议信息 / Information

会议主席 / Chairperson

李骏 / LI Jun
中国汽车工程学会名誉理事长、会士, 中国工程院院士, 清华大学车辆与运载学院教授
Honorary President & Fellow, China SAE; Academician of Chinese Academy of Engineering; Professor of School of Vehicle and Mobility, Tsinghua University

郑继虎 / ZHENG Jihu
国家智能网联汽车创新中心常务副主任, 国汽(北京) 智能网联汽车研究院有限公司总经理
Executive Deputy Director of National innovation Center of intelligent and Connected Vehicles; General Manager, China Intelligent and Connected Vehicles (Beijing) Research Institute Co., Ltd.

王长君 / WANG Changjun
公安部道路交通安全研究中心主任、研究员
Researcher, Director of Research Institute for Road Safety of MPS

杨世春 / YANG Shichun
中国汽车工程学会会士, 北京航空航天大学交通科学与工程学院院长、教授
Fellow of China SAE; Professor and Dean, School of Transportation Science and Engineering, Beihang University

主持嘉宾 / Moderator

郑继虎 / ZHENG Jihu
国家智能网联汽车创新中心常务副主任, 国汽(北京) 智能网联汽车研究院有限公司总经理
Executive Deputy Director of National innovation Center of intelligent and Connected Vehicles; General Manager, China Intelligent and Connected Vehicles (Beijing) Research Institute Co., Ltd.

辛克铎 / XIN Keduo
国家智能网联汽车创新中心副主任, 国汽(北京) 智能网联汽车研究院有限公司常务副总经理
Vice Director, National Innovation Center of Intelligent and Connected Vehicles; Executive Deputy General Manager, China Intelligent and Connected Vehicles (Beijing) Research Institute Co., Ltd.

学术联络人 / Academic Liaison

方锐 / FANG Rui
国家智能网联汽车创新中心安全事业部总经理
General Manager of the Safety Division, National innovation Center of intelligent and Connected Vehicles

王红 / WANG Hong
清华大学清华大学车辆与运载学院副研究员
Associate Researcher of School of Vehicle and Mobility, Tsinghua University

曹耀光 / CAO Yaoguang
北京航空航天大学交通科学与工程学院副研究员
Associate Researcher of the Transportation Science and Engineering School, Beihang University

会议简介 / Introduction

智能网联汽车已成为全球汽车产业创新发展的战略方向, 车路云一体化方案是解决智能网联汽车产业化落地的关键, 伴随智能网联汽车产业快速发展, 也带来了新的安全挑战。本次智能网联汽车安全主论坛聚焦车路云一体化智能网联汽车安全, 围绕安全政策标准法规和企业工程落地实践展开深刻讨论, 同商共讨智能网联汽车安全发展新思路, 助力产业高质量发展。

The intelligent connected vehicle has become a strategic direction for the innovative development of the global automotive industry. The vehicle-road-cloud integration solution is the key to solving the industrialization of intelligent connected vehicles. With the rapid development of the intelligent connected vehicle industry, new safety challenges have also emerged. This forum focuses on the safety of vehicle-road-cloud integrated intelligent connected vehicles, conducts in-depth discussions around safety policies, standards, regulations, and enterprise engineering implementation practices, discusses new ideas for the safe development of intelligent connected vehicles, and helps promote the high-quality development of the industry.

日程 / Agenda

14:00-14:10

致辞 / Address
侯福深 / HOU Fushen
中国汽车工程学会副理事长兼秘书长
Vice President & Secretary General of China SAE

14:10-14:40

高级别智能网联汽车安全——关键挑战与解决方案
High-Level Intelligent Connected Vehicle Safety: Key Challenges and Solutions
李骏 / LI Jun
中国汽车工程学会名誉理事长、会士, 中国工程院院士, 清华大学车辆与运载学院教授
Honorary President & Fellow, China SAE; Academician of Chinese Academy of Engineering; Professor of School of Vehicle and Mobility, Tsinghua University

14:40-15:00

智能网联汽车商用密码应用与创新发展
Application and Innovative Development of Commercial Cryptography in Intelligent Connected Vehicles
国家密码管理局
State Cryptography Administration

15:00-15:20

智能网联汽车道路交通安全管理问题与对策
Road Traffic Safety Management Issues and Countermeasures for Intelligent Connected Vehicles
王长君 / WANG Changjun
公安部道路交通安全研究中心主任、研究员
Researcher, Director of Research Institute for Road Safety of MPS

15:20-15:40

智能网联汽车准入试点的安全要求及实施对策
Safety Requirements and Implementation Measures for the Access Pilot of Intelligent Connected Vehicles
工业和信息化部装备工业发展中心
Equipment Industry Development Center, Ministry of Industry and Information Technology

15:40-16:00

面向智能网联汽车新安全问题的召回管理
Recall Management for New Safety Problems of Intelligent Connected Vehicles
肖凌云 / XIAO Lingyun
国家市场监管总局缺陷产品召回技术中心副主任
Deputy Director of Defective Product Recall Technology Center, State Administration for Market Regulation

16:00-16:20

智能网联汽车网络空间安全技术变革与挑战
Technological Changes and Challenges of Cybersecurity for Intelligent Connected Vehicles
段海新 / DUAN Haixin
清华大学网络与信息安全实验室主任、教授
Professor, Tsinghua University

16:20-16:40

探索下一代智能电动汽车的安全融合发展
Explore the Safe and Integrated Development of the Next Generation of Intelligent Electric Vehicles
卢龙 / LU Long
蔚来汽车副总裁、首席数字安全官
VP and Chief Digital Safety & Security Officer, NIO Inc.

16:40-17:00

Autonomous Vehicle Safety: More Than Net Risk
Philip Koopman
Associate Professor, Electrical and Computer Engineering, Carnegie Mellon University

FISITA Intelligent Safety Conference China 2024
ISCC 2024
第六届世界智能安全大会

📅 2024年9月20-21日　　📍 上海汽车城瑞立酒店

国际 | 高端 | 学术引领　　**ISCC** 寻求自动驾驶安全解决方案的高端国际平台

100+ 院士及全球顶级专家出席

600+ 学术界和产业界专家深度交流

50% 国际演讲

50+ 自动驾驶安全新技术发布

日程框架

日期	时间	内容		
9月20日	09:00-12:00	会议注册		
	13:30-18:00	ISCC 2024 全体大会		
9月21日	并行专题论坛			
	08:30-12:00	T1:预期功能安全	T2:车路云协同控制	T3: 全球青年科学家论坛——人工智能
	13:30-17:30	T4:测试评价	T5:信息安全	

主办单位　FISITA　CHINA SAE

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智能网联汽车技术首脑（CTO）闭门峰会
Intelligent and Connected Vehicles CTO Closed-door Summit

🕓 16:00-19:00　6月19日 / Jun.19th

📍 日新楼·第一会议室
Rixin Building·Conference Room 1

参与嘉宾 / Attendance List（按姓名拼音排序 / in alphabetical order by last names）

公维洁 GONG Weijie
中国汽车工程学会副秘书长、中国智能网联汽车产业创新联盟秘书长
Vice Secretary of China SAE; Secretary of China Industry Innovation Alliance for the Intelligent and Connected Vehicles

郭杏荣 GUO Xingrong
蘑菇车联信息科技有限公司创始人兼CEO
Founder & CEO, Mogo.ai Information and Technology Co., Ltd.

侯福深 HOU Fushen
中国汽车工程学会副理事长兼秘书长
Vice President & Secretary General of China SAE

黄畅 HUANG Chang
地平线联合创始人兼CTO
Co-founder & CTO, Horizon Robotics

黄文进 HUANG Wenjin
浙江海康智联有限公司首席架构师
Chief Architect, HIK AI LINK

郎咸朋 LANG Xianpeng
理想汽车智能驾驶副总裁
VP of Intelligent Driving, Li Auto

李骏 LI Jun
中国汽车工程学会名誉理事长，中国工程院院士，清华大学教授
Honorary President of China SAE; Academician of Chinese Academy of Engineering; Professor of Tsinghua University

李开国 LI Kaiguo
中国汽车工程学会监事长，中国汽车工程研究院股份有限公司专家委主任
Chairman of the Supervisory Committee of China Society of Automotive Engineers; Director of the Expert Committee of China Automotive Engineering Research Institute Co., Ltd.

李克强 LI Keqiang
中国工程院院士，清华大学教授，国家智能网联汽车创新中心首席科学家
Academician of Chinese Academy of Engineering; Professor of Tsinghua University; Chief Scientist of National Innovation Center of Intelligent and Connected Vehicles

李力耘 LI liyun
小鹏汽车自动驾驶中心负责人
Head of Autonomous Driving Center, Xpeng

李强 LI Qiang
阿里云智能集团副总裁
VP, Alibaba Cloud Intelligence Group

李卫兵 LI Weibing
科大讯飞股份有限公司智能汽车事业部副总经理
Deputy General Manager of iFLYTEK Automobile BU

廉玉波 LIAN Yubo
比亚迪集团首席科学家、汽车总工程师、汽车工程研究院院长
Chief Scientist & Chief Automotive Engineer & Director of Automotive Engineering Research Institute, BYD

梁伟强 LIANG Weiqiang
广汽研究院副院长、智能网联技术研发中心主任
Deputy Dean, Director of Intelligent & Connected Technology R&D Center, GAC R&D Center

刘卫红 LIU Weihong
黑芝麻智能联合创始人兼总裁
Co-founder & President, Black Sesame Technologies

陆丽俐 Lily LU
中国汽车工程学会副秘书长
Vice Secretary of China SAE

仇雨菁 Maggie QIU
北京芯驰半导体科技股份有限公司联合创始人、董事
Co-founder and Board Director, SemiDrive

饶庆 RAO Qing
Momenta自动驾驶解决方案全球架构师
Global Architect of Autonomous Driving Solutions, Momenta

任少卿 REN Shaoqing
蔚来汽车自动驾驶研发副总裁
Vice President of Autonomous Driving Development, NIO

沈劭劼 SHEN Shaojie
卓驭科技负责人
Responsible Person of Zhuoyu Technology (ZYT)

孙宁 SUN Ning
北京车网科技发展有限公司总经理
General Manager, Beijing Connected and Autonomous Vehicles Technology Co., Ltd.

王磊 WANG Lei
北京汽车研究总院有限公司党委书记、院长
Party Secretary & President of Beijing Automotive Technology Center Co., Ltd.

王磊 WANG Lei
智加科技首席技术官
CTO, Zhijia Tech

王亮 WANG Liang
百度智能驾驶事业群组（IDG）首席研发架构师，IDG技术委员会主席
Chair of Baidu Intelligent Driving Group Technical Committee

王暕 WANG Xian
浪潮电子信息产业股份有限公司能源交通行业部CTO
CTO of Energy & Transportation Industry Department, Inspur Electronic Information Industry Co., Ltd.

吴小东 WU Xiaodong
华为云计算EI产品部副总裁
Vice President of EI Product Department, Huawei Cloud Computing

杨轩 YANG Xuan
云控智行科技有限公司副总裁
VP, Tsingcloud Co., Ltd.

尹玉涛 YIN Yutao
深圳市航盛电子股份有限公司副总裁
VP, Shenzhen Hangsheng Electronics

余卓平 YU Zhuoping
同济大学汽车学院教授
Professor, Tongji University

张进华 ZHANG Jinhua
中国汽车工程学会理事长，国家智能网联汽车创新中心执行主任
President of China SAE, Executive Director of National Innovation Center of Intelligent and Connected Vehicles

张宁 ZHANG Ning
小马智行副总裁、北京研发中心负责人
VP, Head of Beijing R&D Center, Pony.ai

张晓宇 ZHANG Xiaoyu
重庆长安汽车股份有限公司执行副总裁
Executive Vice President of Chongqing Changan Automobile Co., Ltd.

张欣 ZHANG Xin
国汽智图（北京）科技有限公司首席技术官
CTO, CICV Data

赵福全 Fuquan (Frank) ZHAO
清华大学汽车产业与技术战略研究院院长，FISITA终身名誉主席
Director, Professor, Tsinghua Automotive Strategy Research Institute (TASRI); Lifetime Honorary President of FISITA

郑继虎 ZHENG Jihu
国家智能网联汽车创新中心常务副主任，国汽（北京）智能网联汽车研究院有限公司总经理
Executive Deputy Director of National innovation Center of intelligent and Connected Vehicles; General Manager, China Intelligent and Connected Vehicles (Beijing) Research Institute Co., Ltd.

周光涛 ZHOU Guangtao
联通智网科技有限公司车辆智能网联研究院院长
Director of the Intelligent & Connected Vehicles Research Institute, China Unicom Smart Connection Technology Limited

朱艳 ZHU Yan
电装（中国）投资有限公司技术开发本部本部长
Engineering Development Unit Senior Director, DENSO (CHINA) INVESTMENT CO., LTD.

09:30-12:30
6月18日 / Jun.18th

日新楼 · 试制试装中心
Rixin Building · Trial Production Center

09:30-12:30
6月19日 / Jun.19th

日新楼 · 试制试装中心
Rixin Building · Trial Production Center

会议信息 / Information

会议主席 / Chairperson

主持嘉宾 / Moderator
甄子健 / ZHEN Zijian
原科技部高技术研究发展中心处长、EV项目主管；中国驻大阪总领事馆科技领事
Former Director of EV Project of the High-tech Research and Development Center of the Ministry of Science and Technology; Consul of the Consulate General of the People's Republic of China in Osaka

主持嘉宾 / Moderator
张翼 / ZHANG Yi
野村综研（上海）咨询有限公司总经理
General Manager, Nomura Research Institute Shanghai,Ltd.

学术联络人 / Academic Liaison

何剑 / HE Jian
野村综研（上海）咨询有限公司解决方案负责人
Solution Head, Nomura Research Institute Shanghai,Ltd.

协办单位 / Co-organizer

野村综合研究所
Nomura Research Institute Shanghai,Ltd.
中国智能网联汽车产业创新联盟
China Industry Innovation Alliance for the Intelligent and Connected Vehicles
中日产业投资促进协会
China-Japan Industrial Investment Promotion Association

会议简介 / Introduction

本次论坛旨在探讨和加强中日两国企业在智能网联汽车领域的交流与合作。会议将围绕ICV整车技术创新及测试验证、关键零部件技术创新趋势及解决方案、ICV软件技术平台及软件开发、智能驾驶领域的中日合作机会分析等议题展开深入探讨，凝聚共识，增进合作，促进协同发展，为国际智能网联汽车行业的发展贡献一份力量。

This forum aims to explore and strengthen the communication and cooperation between Chinese and Japanese enterprises in the field of intelligent connected vehicles (ICV). The meeting will focus on topics such as ICV technology innovation and test validation, key components technology innovation trends and solutions, ICV software technology platform and software development, and analysis of Sino-Japanese cooperation opportunities in the field of intelligent driving, so as to build consensus, enhance cooperation, promote synergistic development, and contribute to the development of the international ICV industry.

日程 / Agenda

09:30-09:40 嘉宾致辞 / Address

陆丽俐 / Lily LU
中国汽车工程学会副秘书长
Deputy Secretary General of China SAE

上野贵志 / UENO Takashi
日本汽车工业协会北京代表处首席代表
Chief Representative, Japan Automobile Manufacturers Association, Inc. Beijing Representative Office

09:40-10:00
智能汽车数字物理融合测试
Digital-physical fusion test for intelligent vehicles
朱冰 / ZHU Bing
吉林大学汽车工程学院副院长
Assistant Dean, College of Automotive Engineering, Jilin University

10:00-10:20
全球汽车产业链中的中日合作机会分析——以智能驾驶产业为例
Exploring Cooperation Opportunities Between China and Japan in the Global Automotive Industry: Focus on Intelligent Driving
张翼 / ZHANG Yi
野村综研（上海）咨询有限公司总经理
General Manager, Nomura Research Institute Shanghai,Ltd.

10:20-10:40
AI技术的车载创新应用
Innovative Application of AI in Intelligent Cockpits
尹玉涛 / YIN Yutao
深圳市航盛电子股份有限公司副总裁
Vice President, SHENZHEN HANGSHENG ELECTRONICS

10:40-11:00
面向智能网联汽车的人机协同智能软件开发——超级软件工场的实践
Human-Machine Collaborative Automotive Software Developments: Practices from Software Dreamworks
朱敦尧 / ZHU Dunyao
武汉光庭信息技术股份有限公司董事长
Chairman, Wuhan KOTEI Informatics Co., Ltd.

11:00-11:20
舱驾融合的机遇与挑战
Opportunities and challenges of cabin-driver integration
常衡生 / CHANG Hengsheng
中科创达执行总裁
Executive President, Thunder Software Technology Co., Ltd.

11:20-11:40
互鉴观察角度介绍日本交通数字化战略
Introducing Japan's transportation digitalization strategy from a mutual learning perspective
甄子健 / ZHEN Zijian
原科技部高技术研究发展中心处长、EV项目主管
中国驻大阪总领事馆科技领事
Former Director of EV Project of the High-tech Research and Development Center of the Ministry of Science and Technology; Consul of the Consulate General of the People's Republic of China in Osaka

11:40-12:30 互动讨论 / Panel Discussion

日程 / Agenda

09:30-09:35 Welcoming Address

QU Xiaobo
Professor at School of Vehicle and Mobility, Tsinghua University

09:35-10:00
Needs for AI in Connected and Automated Transportation
LI Xiaopeng
Professor at Department of Civil & Environmental Engineering, University of Wisconsin-Madison

10:00-10:25
Infrastructure-assisted Autonomous Driving – On-campus Test Environment
Kitae JANG
Professor at Cho Chun Shik Graduate School of Mobility, Korea Advanced Institute of Science and Technology

10:25-10:50
Cooperative Lane Change Strategy for Connected and Autonomous Vehicle Platoons in Dedicated Lanes
XU Zhigang
Professor and Vice Dean of the School of Information Engineering, Chang'an University

10:50-11:10 Coffee Break

11:10-11:35
Machine Learning Assisted Hyper-heuristics for Online Transportation Optimization Problems
BAI Ruibin
Professor and Head at School of Computer Science, University of Nottingham Ningbo China

11:35-12:00
Dynamic Operations of A Mobile Charging Crowdsourcing Platform
WANG Zhiwei
Associate Professor at School of Civil and Environmental Engineering, Nanyang Technological University

12:00-12:25
Urban Aerial Mobility - The Ultimate Solution of Future Transportation
QU Xiaobo
Professor at School of Vehicle and Mobility, Tsinghua University

12:25-12:30 Closing

会议信息 / Information

会议主席 / Chairperson

QU Xiaobo
Professor at School of Vehicle and Mobility, Tsinghua University

学术联络人 / Academic Liaison

ZHANG Wei
Research Assistant Professor at School of Vehicle and Mobility, Tsinghua University

会议简介 / Introduction

The integration of intelligence and connectivity into vehicles is crucial for transforming urban transportation towards sustainability. This conference focuses on the latest advancements in intelligent and connected vehicles, highlighting their role in future mobility and sustainable urban development. It brings together a global assembly of experts, innovators, policymakers, and scholars to share cutting-edge research findings and practical examples. Key topics include intelligent and connected vehicles, autonomous driving technologies, intelligent traffic management, and control systems. The discussions aim to explore how these technological drivers can foster the intelligent evolution of urban transportation while ensuring environmental sustainability, offering new perspectives and solutions for the future development of city transport.

S3 面向量产车辆研发的车路云一体化技术与应用探索
Exploration of Vehicle-Infrastructure-Cloud Integrated Technology and Application for Mass-Produced Vehicle

面向量产车辆研发的车路云一体化技术与应用探索 **S3**
Exploration of Vehicle-Infrastructure-Cloud Integrated Technology and Application for Mass-Produced Vehicle

🕐 09:00-12:30　6月19日 / Jun.19th　📍 日新楼 · 多功能厅B　Rixin Building · Conference Hall B

🕐 09:00-12:30　6月19日 / Jun.19th　📍 日新楼 · 多功能厅B　Rixin Building · Conference Hall B

会议信息 / Information

会议主席 / Chairperson

主持嘉宾 / Moderator
杜孝平 / DU Xiaoping
西部科学城ICV创新中心云控平台首席专家
Chief Expert of Cloud Control Platform, ICV Innovation Center of Western Science City

张硕 / ZHANG Shuo
欧洲汽车工业协会 (比利时)
北京代表处首席代表
Chief Representative, European Automobile Manufacturers' Association

学术联络人 / Academic Liaison

高博麟 / GAO Bolin
清华大学车辆与运载学院副研究员、技术转移研究院副院长
Associate Reseacher, School of Vehicle and Mobility, Tsinghua University

日程 / Agenda

09:00-09:15
车路云一体化产业发展现状与前景分析
Analysis of the Current Situation and Prospects of the Development of Vehicle Road Cloud Integration Industry
杜孝平 / DU Xiaoping
西部科学城ICV创新中心云控平台首席专家
Chief Expert of Cloud Control Platform, ICV Innovation Center of Western Science City

09:20-09:35
面向协同自动驾驶的 V2X 部署路线图
Roadmap for V2X Deployment towards Cooperative Automated Driving
Maxime Flament
Chief Technology Officer, 5G Automotive Association (5GAA)

09:40-09:55
博世车路云一体化全球实践
Bosch's Global Practices of Vehicle-Road-Cloud Integration
Andreas Schaller
V2X Technology Strategy, Center of Competence for Mobility Architectures Robert Bosch GmbH

10:00-10:15
车路云一体化技术在量产车辆研发中的最新应用与实践
The Latest Application and Practice of Vehicle-Infrastructure-Cloud Integrated Technology in the R&D of Mass Produced Vehicles
刘斌 / LIU Bin
中国第一汽车集团有限公司研发总院首席
Global R&D Center Principal Engineer, China FAW Group Co., Ltd.

10:20-10:35
打造服务量产车的车路云一体化平台
Build Vehicle-road-cloud Collaborative Service for Mass-produced Vehicles
赵晓宇 / ZHAO Xiaoyu
中国联通智慧交通军团副军团长、联通智网科技股份有限公司智慧交通事业部总经理
Vice Chief, China Unicom Intelligent Transportation Legion; General Manager, Intelligent Transportation Division, China Unicom Smart Connection Technology Limited

日程 / Agenda

10:40-10:55
华为车路云一体化产业实践及推进思考
Huawei's Industry Practices and Thoughts of Vehicle-Road-Cloud Integration
马金斗 / MA Jindou
华为技术有限公司无线网络产品线车联网领域总裁
President of V2X Domain, HUAWEI Wireless, Huawei Technologies Co., Ltd.

11:00-11:15
蘑菇车联车路云一体化落地实践与技术创新
Mogo.ai vehicle-road-cloud integration business practice and technological innovation
郭杏荣 / Guo Xingrong
蘑菇车联信息科技有限公司 首席技术官
CTO, Mogo.ai Information and Technology Co., Ltd.

11:20-11:35
车路云一体化实践应用白皮书发布
The Release of White Paper on Vehicle-Infrastructure-Cloud Integration Practice and Application
公维洁 / GONG Weijie
中国汽车工程学会副秘书长、中国智能网联汽车产业创新联盟秘书长
Deputy Secretary-General，China Society of Automotive Engineers; Secretary-General，CAICV

11:40-12:30 ｜ **圆桌讨论 / Panel Discussion**
在量产车辆的研发中，车路云一体化技术与应用面临的挑战与应对方案
Challenges and Solutions for VICIS Applications in the R&D of Mass Produced Vehicles

备注 / Note ｜ 每位演讲嘉宾有15分钟演讲时间，5分钟问答时间
Each Speaker will have 15 minutes for speech and 5 minutes for Q & A

会议简介 / Introduction

车路云一体化的智能网联汽车已成为当下汽车产业发展的重要趋势，经过多年的探索和实践，我国车路云一体化系统核心关键技术研发取得了突破性进展，为智能网联汽车的量产奠定基础。本次论坛以量产车辆研发中车路云一体化应用为核心，围绕关键技术进展与挑战、融合场景部署路径、车路云协同控制方法等问题开展讨论，聚焦量产阶段的关键问题，促进形成行业共识。专题分会还将设置圆桌会议环节，组织产业发展相关领域专家对量产车辆研发中车路云一体化应用的挑战与应对策略进行互动交流。

Intelligent connected vehicles (ICVs) with Vehicle-Infrastructure-Cloud Integrated System (VICIS) have become an important trend in the automotive industry. After years of exploration, China has made breakthroughs in the research and development of core technologies of VICIS, laying the foundation for ICV mass production. This session will focus on the application of VICIS in vehicle R&D, held around critical issues in the mass-production stage, such as the core technology progress and challenges, deployment paths of advanced use cases, and cooperative control methodologies, and form industry consensus. A roundtable session will also be set up to organize cross-field experts to exchange the challenges and solutions of the VICIS application in mass production vehicle R&D.

09:30-12:30 日新楼·第一会议室
6月18日 / Jun.18th   Rixin Building · Conference Room 1

09:30-12:00 智汇楼·101会议室
6月18日 / Jun.18th   Zhihui Building · Conference Room 101

会议信息 / Information

会议主席 / Chairperson

主持嘉宾 / Moderator
杨世春 / YANG Shichun
中国汽车工程学会会士,北京航空航天大学交通科学与工程学院院长、教授
Fellow of China SAE; Professor and Dean, School of Transportation Science and Engineering, Beihang University

学术联络人 / Academic Liaison

任秉韬 /REN Bingtao
北京航空航天大学交通科学与工程学院讲师
School of Transportation Science and Engineering, Beihang University

协办单位 / Co-organizer

中国汽车研发软件产业创新联盟
China Automotive R&D Software Industry Innovation Coalition

会议简介 / Introduction

汽车研发软件的快速发展推动了汽车产业的技术创新,加速了汽车智能化与网联化的变革。然而研发软件工具"卡脖子"风险严重限制了我国汽车电控技术的自主创新与产业安全发展。会议旨在提供行业交流平台,围绕亟需的自主创新,研讨突破智能网联汽车研发软件工具链的关键技术难题,研发构建符合我国汽车产业需求且具有自主知识产权的电控单元开发"工具链",实现关键环节的自主可控,加大我国新能源汽车技术和规模的领先优势,落实汽车强国战略。

The rapid development of automotive R&D software has promoted technological innovation in the automotive industry and accelerated the transformation of automotive intelligence and connectivity. However, the risk of "necking" R&D software tools has seriously limited the independent innovation of China's automotive electronic control technology and the safe development of the industry. The conference aims to provide a platform for industry technology exchanges and co-construction, focusing on the much-needed independent innovation, discussing breakthroughs in the critical technical problems of the R&D software toolchain of intelligent connected vehicles, developing and constructing the "toolchain" of electronic control unit development that meets the needs of China's automobile industry and has independent intellectual property rights, realizing the autonomy of the critical links, and increasing the leading position of China's new energy automobile technology and scale. The conference will recognize independent control of essential links, improve China's leading edge in new energy vehicle technology and scale, and implement the strategy of a strong automobile country.

日程 / Agenda

09:30-09:40 开场发言 / Opening Address

09:40-10:00
Connected and Autonomous Vehicle Technologies: Uncertaintis and Energy Managment
Hamid Reza Karimi
Professor, Department of Mechanical Engineering, Politecnico di Milano

10:00-10:20
智能网联汽车检测技术研究与工具链应用实践
Research on Intelligent Connected Vehicle Testing Technology and Practice Application of Tool Chain
邵学彬 / SHAO Xuebin
中汽研汽车检验中心(天津)有限公司智能网联试验研究部副部长
Vice Director, ICV Testing and Research Department, CATARC Automotive Test Center (Tianjin) Co., Ltd.

10:20-10:40
整车数字化体验技术在新能源智能汽车开发过程中的应用研究
Application Research of Vehicle Digital Experience Technology in the Development Process of New Energy Intelligent Vehicles
王泽兴 / WANG Zexing
国家新能源汽车技术创新中心数字化部部长
Manager of Digital department, National New Energy Vehicle Technology Innovation Center

10:40-11:00
AI对抗AI——仿真测试中的多智能体对抗行为模型
AI vs. AI: Multi-Agent Adversarial Behavior Models in Simulation Testing
潘余曦 / PAN Yuxi
安徽深信科创信息技术有限公司首席技术官
Chief Technology Officer, Synkrotron Technologies, Co., Ltd.

11:00-11:20
智能网联汽车仿真软件工具链及其关键技术
Enhanced Simulation Software Tool Chain for Intelligent Connected Vehicles and Its Key Technologies
丁娟 / DING Juan
吉林大学汽车电控与智能化研究室
Vehicle Controls and Intelligence Lab, Jilin University

11:20-12:30 圆桌讨论 / Panel Discussion
智能网联汽车研发软件工具链技术研讨
Panel Discussion: Discussion on the Tool Chain Technology of Intelligent Connected Vehicle R&D Software

日程 / Agenda

09:30-09:50
共赴自动驾驶曙光时刻
Joining the Dawn of Autonomous Driving
王翀 / WANG Chong
百度智能驾驶事业群组市场总经理
Marketing General Manager, Intelligent Driving Business Group, Baidu

09:50-10:10
端云融合矿山无人化运输规模化应用
Large Scale Application of Unmanned Transportation in Mines Based on Cloud-Edge Integration
艾云峰 / AI Yunfeng
中科慧拓副总裁
Vice President, Waytous Incorporation

10:10-10:30
农业机器人的挑战与实践
Challenges and Practices of Agricultural Robots
杨顺 / YANG Shun
中科原动力CTO
CTO, Beijing AIForceTech Technology Co., Ltd.

10:30-10:50
智能网联汽车测试技术研究与实践
Research and Application of Intelligent Connected Vehicle Testing Technology
邵学彬 / SHAO Xuebin
中汽中心天津检验中心智能网联副部长
Vice Director, ICV Testing and Research Department

10:50-11:10
面向L4自动驾驶的车路云一体化接管系统
Vehicle-road-cloud Integrated Takeover System for L4 Autonomous Driving
王聪 / WANG Cong
清华大学博士后、助理研究员
Postdoctor and Assistant Researcher, Tsinghua University

11:10-12:00 圆桌讨论 / Panel Discussion
端云融合L4自动驾驶规模化应用挑战
Panel Discussion: Edge-Cloud Integrated L4 autonomous driving scale application challenges

主持嘉宾 / Moderator
艾云峰 / AI Yunfeng
中科慧拓副总裁
Vice President, Waytous Incorporation

会议信息 / Information

会议主席 / Chairperson

主持嘉宾 / Moderator
曹东璞 / CAO Dongpu
清华大学教授,国家级海外高层次人才,清华大学智能绿色车辆与交通全国重点实验室首席研究员
Professor of Tsinghua University, Lead Researcher of State Key Laboratory of Intelligent Green Vehicle and Mobility

曹恺 / CAO Kai
东风悦享科技有限公司CTO
CTO, Dongfeng Usharingtech Limited Company

学术联络人 / Academic Liaison

王聪 / WANG Cong
清华大学博士后、助理研究员
Postdoctor and Assistant Researcher, Tsinghua University

会议简介 / Introduction

当前自动驾驶技术处于由L2/L2+向高阶自动驾驶的重大跨越阶段,不断提升场景适应能力、实现从限定场景到通用场景以及从一般场景到复杂场景的无人化落地是现阶段面临的重要挑战。随着高速移动通信、云计算等相关技术的不断发展,终端与云的深度融合引发了业内的广泛关注。端云融合打破了交通系统各个单元之间的信息壁垒、充分调动了硬件计算资源、创新了数据流向,为实现车路云一体化接管、超视距交通场景认知、端云协同AI大模型部署等自动驾驶新功能、新形态提供了基础,端云融合将在L4自动驾驶规模化应用中发挥更加关键的作用。本次会议将在技术、运营、测试、标准等几个方面开展端云融合L4自动驾驶阶段性进展以及规模化应用挑战,以期推动自动驾驶行业进步。

At present, the autonomous driving technology is in a major leapfrog stage from L2/L2+ to high-level autonomous driving. It is an important challenge to continuously improve the adaptability of the scene and realize the unmanned landing from the limited scene to the general scene and from the general scene to the complex scene. With the continuous development of high-speed mobile communication, cloud computing and other related technologies, the deep integration of terminals and clouds has caused extensive attention in the industry. End-cloud integration breaks the information barriers between various units of the transportation system, fully mobilizes hardware computing resources, and innovates data flow, providing the foundation for new autonomous driving functions and new forms such as takeover based on the vehicle-road-cloud integration, over-the-horizon traffic scene cognition, and end-cloud collaborative AI large model deployment. End-cloud integration will play a more critical role in the large-scale application of L4 autonomous driving. This conference will launch the stage progress of end-cloud fusion L4 autonomous driving and scale application challenges in several aspects such as technology, operation, testing, and standards, in order to promote the progress of the autonomous driving industry.

🕐 14:30-18:00
6月19日 / Jun.19th

📍 日新楼·试制试装中心
Rixin Building · Trial Production Center

🕐 14:30-18:00
6月20日 / Jun.20th

📍 日新楼·第一会议室
Rixin Building · Conference Room 1

会议信息 / Information

会议主席 / Chairperson

李升波 / Shengbo Eben LI
清华大学车辆与运载学院党委书记、长聘教授
Tenured Professor and Chairman of School of Vehicle and Mobility, Tsinghua University

主持嘉宾 / Moderator

刘畅 / LIU Chang
北京大学工学院研究员
Researcher, College of Engineering, Peking University

学术联络人 / Academic Liaison

曹重 / CAO Zhong
密歇根大学助理研究员
Assisstant Research Scientist, University of Michigan

协办单位 / Co-organizer

北京大学工学院
College of Engineering, Peking University

会议简介 / Introduction

在自动驾驶领域，大模型技术的进展正引发行业关注，并成为推动行业进步的关键力量。本论坛旨在汇聚拥有不同技术视角的企业和研究机构的专家精英，共同探讨自动驾驶大模型的最新技术进展和面临的挑战。论坛将通过精彩的主题演讲和深入的圆桌讨论，覆盖从多种架构的比较分析、大规模商用前景，到自动驾驶在开放道路应用中遇到的新问题，以及大语言模型如GPT对自动驾驶性能的潜在影响等多个维度。此外，将讨论当前数据闭环系统在支持自动驾驶大模型研发过程中的能力及其瓶颈，为行业内的技术人员提供互动交流和共同学习的平台。

In the field of autonomous driving, the progress of foundation model technology is attracting industry attention and becoming a key force in driving industry progress. This forum aims to gather experts and elites from enterprises and research institutions with different technical perspectives to jointly explore the latest technological advancements and challenges faced by foundation models in autonomous driving. The forum will cover various aspects through exciting keynote speeches and in-depth roundtable discussions, ranging from comparative analysis of various architectures, the prospects of large-scale commercial use, to new issues encountered in the application of autonomous driving on open roads, as well as the potential impact of large language models such as GPT on the performance of autonomous driving. In addition, the current data closed-loop system's capabilities and bottlenecks in supporting the research and development of foundation models for autonomous driving will be discussed, providing a platform for interaction, exchange, and collective learning for technical personnel within the industry.

日程 / Agenda

14:30-14:40 致辞 / Address

李升波 / Shengbo Eben LI
清华大学车辆与运载学院党委书记、长聘教授
Tenured Professor and Chairman of School of Vehicle and Mobility, Tsinghua University

14:40-15:40 主题1：自动驾驶大模型架构技术探讨

14:40-15:00
面向开放世界强化学习：环境与元策略学习
Towards Open-world Reinforcement Learning: Learning Environment and Meta-Policy
俞扬 / YU Yang
南京大学人工智能学院教授
Professor, School of Artificial Intelligence, Nanjing University

15:00-15:20
自动驾驶中的对抗与防御
Adversarial and Defense in Autonomous Driving
陈恺 / CHEN Kai
中科院信息工程研究所研究员
Researcher, Institute of Information Engineering, Chinese Academy of Sciences

15:20-15:40
多模态大模型与知识驱动自动驾驶
VLM and Knowledge-driven Autonomous Driving
石博天 / SHI Botian
上海人工智能实验室智能交通平台PI
PI of ADLab, Shanghai AI Laboratory

15:40-16:40 主题2：自动驾驶数据及其大规模应用挑战

15:40-16:00
自动驾驶大模型应用的挑战及可能性
Challenges and Possibilities of Large-Scale Autonomous Driving Deployment
白宇利 / Samuel BAI
蔚来汽车人工智能平台负责人、资深研发总监
Head of AI Platform & Senior Director, NIO

16:00-16:20
自动驾驶大模型的安全性挑战
Safety Challenges for Foundation Models of Autonomous Vehicles
封硕 / FENG Shuo
清华大学自动化系助理教授
Assistant Professor, Department of Automation, Tsinghua University

16:20-16:40
数据驱动的全栈端到端自动驾驶系统及应用
Data-driven Full-stack End-to-end AD System and Its Application
孙琪 / SUN Qi
昇启科技创始人
CEO, RisenLighten. Tech

16:40-18:00 圆桌讨论 / Panel Discussion
议题1：自动驾驶大模型架构技术探讨
议题2：自动驾驶数据及其大规模应用挑战

特邀讨论嘉宾 / Panelists

胡金水 / HU Jinshui
科大讯飞人工智能科学家
Principal Scientist, RDG, IFLYTEK

穆黎森 / MU Lisen
地平线算法平台总架构师
Chief Architect of the Algorithm Platform, Horizon Robotics

日程 / Agenda

议题1 NOA感知的技术路线 Technical Route for NOA Perception

14:30-14:40
引导发言/Introductory Address
贺翔 / HE Xiang
毫末智行数据智能科学家
Data Intelligence Scientist, HAOMO.AI

14:40-15:30
圆桌研讨：
NOA感知的技术路线
Panel Discussion: Technical Route for NOA Perception

议题2 无图NOA的导航地图方案 Navigation Map Solutions for Mapless NOA

15:30-15:40
引导发言/Introductory Address
郎咸朋 / LANG Xianpeng
理想汽车智能驾驶副总裁
VP of Intelligent Driving, Li Auto

15:40-16:30
圆桌研讨：
无图NOA的导航地图方案
Panel Discussion: Navigation Map Solutions for Mapless NOA

16:30-17:00 茶歇 / Coffee Break

议题3 车路云基础设施如何赋能NOA How Vehicle-road-cloud Infrastructure Empower NOA

17:00-17:10
引导发言/Introductory Address
杨轩 / YANG Xuan
云控智行科技有限公司副总裁
Vice President, Tsingcloud Co., Ltd.

17:10-18:00
圆桌研讨：
车路云基础设施如何赋能NOA
Panel Discussion: How Vehicle-road-cloud Infrastructure Empower NOA

特邀讨论嘉宾 / Panelists

佘晓丽 / SHE Xiaoli
蔚来汽车自动驾驶研发质量安全总监
Safety and Quality Director, Autonomous Driving Development, NIO Inc

贺锦鹏 / HE Jinpeng
智己汽车自动驾驶中心智驾体验创新部总监
Director of Autopilot Experience and Innovation Department Auto Pilot Center, IM Motors

周建 / ZHOU Jian
博世智能驾驶与控制系统事业部高阶智驾研发总监
Director of advance driving solution ,Bosch Cross-Domain Computing Solutions China

马君 / John MA
小鹏汽车自动驾驶中心副总经理
Deputy General Manager, ADC, XPeng

潘云鹏 / PAN Yunpeng
极越汽车智能软件副总裁
Software VP

刘文尧 / LIU Wenyao
地平线软件平台产品线市场总监
Director of Product Marketing, TROS PL, Horizon Robotics

孙连明 / SUN Lianming
中国第一汽车集团有限公司智驾开发部高级主任
Senior Director of Intelligent Driving Development Department China FAW Group Co., Ltd.

姜海鹏 / JIANG Haipeng
长城汽车智能驾驶高级总监
Senior Director of Intelligent Driving, Great Wall Motor

李云翔 / LI Yunxiang
一径科技联合创始人、产品副总裁
Co-founder and Vice President of Product, ZVISION Technologies Co., Ltd.

会议信息 / Information

会议主席 / Chairperson

公维洁 / GONG Weijie
中国汽车工程学会副秘书长、中国智能网联汽车产业创新联盟秘书长
Deputy Secretary-General, China Society of Automotive Engineers; Secretary-General, CAICV

主持嘉宾 / Moderator

朱西产 / ZHU Xichan
同济大学汽车学院教授
Professor, School of Automotive Studies, Tongji University

学术联络人 / Academic Liaison

陈桂华 / CHEN Guihua
中国汽车工程学会汽车智能化与未来出行研究中心标准与咨询部部长
中国智能网联汽车产业创新联盟副秘书长、国家智能网联汽车创新中心标准与咨询部部长
The Head of Standards and Consulting Department, Automotive Intelligence and Future Mobility Research Center, CSAE Deputy Secretary General of CAICV; The Head of Standards and Consulting Department, CICV

刘福聚 / LIU Fuju
中国汽车工程学会汽车智能化与未来出行研究中心标准与咨询部副部长
The Deputy Head of Standards and Consulting Department, Automotive Intelligence and Future Mobility Research Center, CSAE

会议简介 / Introduction

智能驾驶NOA已经进入快速量产阶段，处于L2辅助驾驶和L3自动驾驶之间的L2+级别的NOA产品没有技术标准做支撑，企业在NOA产品开发中的技术路线各不相同，环境感知传感器配置、地图及网联智能车路云基础设施是否也能赋能NOA等三个问题是行业关心的话题。
本论坛拟采用圆桌讨论的形式对NOA智能驾驶量产的焦点问题展开讨论，引导NOA产业健康发展。

NOA, as a product of intelligent driving, has entered the stage of rapid mass production, while L2+ level NOA products between L2 partial driving automation and L3 conditional driving automation are not supported by technical standards, and OEMs have different technical routes in NOA product development. Thus the environment sensing sensor configuration, high definition map, and intelligent connected vehicle-road-cloud infrastructure are becoming three hot topics of the industry.
This forum adopts round-table to discuss the focus of NOA mass production in order to guide the NOA industry healthy development.

🕐 09:00-12:20
6月18日 / Jun.18th

📍 日新楼 · 多功能厅B
Rixin Building · Conference Hall B

🕐 09:00-12:20
6月18日 / Jun.18th

📍 日新楼 · 多功能厅B
Rixin Building · Conference Hall B

会议信息 / Information

会议主席 / Chairperson

公维洁 / GONG Weijie
中国汽车工程学会副秘书长,中国智能网联
汽车产业创新联盟秘书长
Deputy Secretary-General, China Society of
Automotive Engineers; Secretary-General, CAICV

学术联络人 / Academic Liaison

李晓龙 / LI Xiaolong
中国汽车工程学会产业研究部部长
Director of Industrial Research Department, China-SAE

承办单位 / Co-organizer
北京亦庄智能城市研究院集团有限公司
Beijing Yizhuang Smart City Research Institute Co., Ltd.

协办单位 / Co-organizer
上海国际汽车城(集团)有限公司
Anting · Shanghai International Automobile City

会议简介 / Introduction

2024年,为推动网联云控基础设施建设,探索基于车、路、云、网、图等高效协同的自动驾驶技术多场景应用,加快智能网联汽车技术突破和产业化发展,五部门联合推动开展智能网联汽车"车路云一体化"应用试点工作,计划建成一批架构相同、标准统一、业务互通、安全可靠的城市级试点项目。
试点政策发布后,各城市积极响应应用试点工作,制定试点方案,开展试点建设。
为更好支持试点落地,本次会议拟邀请重点城市、示范区运营单位、相关企业等,围绕试点建设思路、共性问题及各方协同方式等展开研讨与交流,为城市智能网联汽车"车路云一体化"工作开展提供参考和建议。

In 2024, in order to promote the construction of network connected cloud control infrastructure, explore the multi scenario application of autonomous driving technology based on efficient collaboration of vehicles, roads, clouds, networks, and maps, accelerate the breakthrough and industrialization development of intelligent connected vehicle technology, the five departments jointly promote the pilot work of "vehicle road cloud integration" application of intelligent connected vehicles, and plan to build a number of city level pilot projects with the same architecture, unified standards, business interoperability, and safety and reliability.
After the release of pilot policies, cities actively responded to the application pilot work, formulated pilot plans, and carried out pilot construction.
To better support the pilot implementation, this meeting plans to invite key cities, demonstration zone operating units, relevant enterprises, etc. to discuss and exchange ideas on pilot construction, common issues, and collaborative methods among all parties, providing reference and suggestions for the development of "vehicle road cloud integration" of urban intelligent connected vehicles.

09:00-09:10

开场致辞 / Opening Address

公维洁 / GONG Weijie
中国汽车工程学会副秘书长,中国智能网联汽车产业创新联盟秘书长
Deputy Secretary-General, China Society of Automotive Engineers; Secretary-General, CAICV

智能网联汽车"车路云一体化"建设进展与趋势

09:10-09:25
上海市"车路云一体化"融合发展方案
Integrated Development for "Vehicle-Road-Cloud" Integration in Shanghai
潘晓红 / PAN Xiaohong
上海国际汽车城(集团)有限公司总经理
General Manager, Anting · Shanghai International Automobile City

09:25-09:40
"车路云一体化"山城重庆实践
Mountain City Chongqing Practice of Vehicle-Road-Cloud Integration
游绍文 / Shawn YOU
西部车网(重庆)有限公司总经理
General Manager, Wester China Internet of Vehicle (Chongqing) Co., Ltd.

09:40-09:55
智能网联汽车车路云一体化关键技术及规模化发展趋势
Key Technologies and Scaling Development Trends of "Vehicle-Road-Cloud Integration" for Intelligent Connected Vehicles
上官伟 / SHANG GUAN Wei
北京交通大学自动化与智能学院自主智能与无人系统研究中心主任
Director , Center for Autonomous Intelligence and Unmanned Systems Research School of Automation and Artificial Intelligence, Beijing Jiaotong University

09:55-10:05
互动讨论 / Panel Discussion

日程 / Agenda

城市"车路云一体化"发展环境打造

10:05-10:20
北京高级别自动驾驶示范区车路云一体化探索与实践
Exploration and Practice of "Vehicle-Road-Cloud Integration" in Beijing High-level Automated Driving Demonstration Zone
周唯 / ZHOU Wei
北京车网战略规划总监
Director, Beijing Connected and Autonomous Vehicles Technology Co., Ltd.

10:20-10:35
杭州市智能网联汽车"车路云一体化"制度支撑探索
李明松 / LI Mingsong
杭州市经济和信息化局党组成员、副局长

10:35-10:50
智能网联汽车"车路云一体化"城市建设重点
Key Points of Urban Construction for "Vehicle-Road-Cloud Integration" of Intelligent Connected Vehicles
李晓龙 / LI Xiaolong
中国汽车工程学会产业研究部部长
Director of Industrial Research Department,China-SAE

10:50-11:00
互动讨论 / Panel Discussion

智能网联汽车"车路云一体化"规模化应用探索

11:00-11:15
"车路云一体化"规模化发展的系统架构落地实践建议
Practical Suggestions for System Architecture of "Vehicle-Road-Cloud Integration" Scale Development
宣智渊 / XUAN Zhiyuan
云控智行科技有限公司总裁
President, Tsingcloud Co., Ltd.

11:15-11:30
车联网数据应用探索
Exploration of Data Application in the Internet of Vehicles
王佳利 / WANG Jiali
先导(苏州)数字产业投资有限公司董事长
Chairman, Pioneer (Suzhou) Digital Industry Investment Co., Ltd.

11:30-11:45
智汇中国车谷 深化车路协同
张于威 / ZHANG Yuwei
武汉经开区军山新城党工委委员

11:45-12:00
"车路云一体化"城市试点建设运营思路
"Vehicle-Road-Cloud Integration" Urban Pilot Construction and Operation Strategy
邢珺 / XING Jun
浙江海康智联科技有限公司总经理助理
General Manager Assistant, ZHEJIANG HIKAILINK TECHNOLOGY CO.,LTD.

12:00-12:10
互动讨论 / Panel Discussion

12:10-12:20
会议总结 / Summary

T2 专题论坛：多模态融合的自动驾驶环境感知定位技术与应用
Thematic Forum: Environmental Perception and Localization Technologies and Applications Based on Multi-sensor Fusion for Autonomous Driving

专题论坛：多模态融合的自动驾驶环境感知定位技术与应用 **T2**
Thematic Forum: Environmental Perception and Localization Technologies and Applications Based on Multi-sensor Fusion for Autonomous Driving

09:30-12:30
6月19日 / Jun.19th
日新楼·第一会议室
Rixin Building · Conference Room 1

会议信息 / Information

会议主席 / Chairperson

主持嘉宾 / Moderator
蔡英凤 / CAI Yingfeng
中国汽车工程学会高级会员，江苏大学副校长、教授
Senior Member of China SAE; Vice President and Professor, Jiangsu University

王潇 / Sean WANG
深圳市速腾聚创科技有限公司产品中心高级产品总监
Senior Product Director, Product Center, RoboSense Technology Co., Ltd.

学术联络人 / Academic Liaison

李袆承 / LI Yicheng
江苏大学副教授
Associate Professor, Jiangsu University

协办单位 / Co-organizer
江苏大学
Jiangsu University

会议简介 / Introduction

环境感知能力提升是决定智能汽车实现高级别自动驾驶的关键所在，复杂场景广域感知与高精度建图定位是研究热点与难点。会议重点邀请来自产业、学术、研究机构的专家对环境感知与定位技术发展现状与趋势，剖析上层感知定位技术与底层传感器数据间的关联性和面临的挑战。在技术创新方面，会议拟搭建底层传感-上层算法的"产-学-研"感知定位一体化技术与应用架构，针对车路协同、多源传感器异步异构融合、广域环境感知、跨场景定位等研究热点问题，共同探讨自动驾驶感知定位技术与应用，为智能网联汽车产业发展献计献策。

Enhancing environmental perception capabilities is crucial for enabling intelligent vehicles to achieve high-level autonomous driving. Broad-area perception and high-precision mapping and localization in complex scenarios are both research hotspots and challenges. The conference aims to invite experts from industry, academia, and research institutions to discuss the current status and trends in environmental perception and localization technologies. It will analyze the relationship between high-level perception and localization technologies and the underlying sensor data, as well as the challenges faced in this domain.In terms of technological innovation, the conference plans to establish an integrated "industry-academia-research" framework for perception and localization, spanning from basic sensing to high-level algorithms. This will address key research topics such as vehicle-road collaboration, asynchronous and heterogeneous multi-source sensor fusion, broad-area environmental perception, and cross-scenario localization. The goal is to collaboratively explore perception and localization technologies and applications for autonomous driving, providing insights and recommendations for the development of the intelligent connected vehicle industry.

日程 / Agenda

09:30-09:50
自动驾驶中的感知与定位：多模态技术的应用与挑战
Perception and Localization in Autonomous Driving: Applications and Challenges of Multi-modal Technology
杨明 / YANG Ming
上海交通大学智能网联电动汽车创新中心教授
Professor, Innovation Center of Intelligent Connected Electric Vehicles, Shanghai Jiao Tong University

09:55-10:15
车载激光雷达应用及未来发展
Automotive Lidar Application and Future Development
王潇 / Sean WANG
深圳市速腾聚创科技有限公司产品中心高级产品总监
Senior Product Director, Product Center, RoboSense Technology Co., Ltd.

10:20-10:40
融合高精度地图与多模态传感器的智能车感知与定位
Perception and Localization for Intelligent Vehicles by Fusing HD Map and Multi-Model Sensors
胡钊政 / HU Zhaozheng
武汉理工大学智能交通系统研究中心教授
Professor, ITS Research Center, Wuhan University of Technology

10:45-11:15 茶歇 / Coffee Break

11:15-11:35
智能网联可见光感知与通信技术
Intelligent Connected Vehicle Visible Light Sensing and Communication Technology
刘立军 / LIU Lijun
开沃集团沃行科技总经理，江苏省新能源汽车工程研究中心主任
CEO of Skywell Mobility, Skywell New Energy Vehicles Group Co., Ltd.

11:40-12:00
地理视角下的驾驶场景多源融合感知
Multi-source Fusion Perception of Driving Scenes from a Geographical Perspective
周剑 / ZHOU Jian
武汉大学测绘遥感信息工程国家重点实验室副研究员
Associate Researcher, State Key Laboratory of infomation Engineering in Surveying, Mapping and Remote Sensing, Wuhan University

12:05-12:25
5G/C-V2X协作式车辆编队技术
5G/C-V2X-Based Collaborative Vehicle formation Technology
蒋金 / JIANG Jin
厦门金龙客车信息通信专业总师、总经理首席技术顾问、智能交通研发部部长
Chief Engineer, Technical Consultant and Director of Research and Development, Xiamen King Long Motor Group Co.,Ltd.

备注 / Note
每位演讲嘉宾有20分钟演讲时间+5分钟问答时间
Each Speaker will have 20 minutes for speech and 5 minutes for Q&A

T3 专题论坛：智能网联汽车决策控制技术与应用
Thematic Forum: Intelligent and Connected Vehicle Decision-making and Control Technology and Applications

专题论坛：智能网联汽车决策控制技术与应用 **T3**
Thematic Forum: Intelligent and Connected Vehicle Decision-making and Control Technology and Applications

🕐 13:30-16:00
6月19日 / Jun.19th

📍 智汇楼 · 101会议室
Zhihui Building · Conference Room 101

🕐 13:30-16:00
6月19日 / Jun.19th

📍 智汇楼 · 101会议室
Zhihui Building · Conference Room 101

会议信息 / Information

会议主席 / Chairperson

王建强 / WANG Jianqiang
中国汽车工程学会会士，清华大学车辆与运载学院院长、教授
Fellow of China SAE; Dean and Professor, School of Vehicle and Mobility, Tsinghua University

学术联络人 / Academic Liaison

陈超义 / CHEN Chaoyi
清华大学车辆与运载学院助理研究员
Assistant Researcher, School of Vehicle and Mobility, Tsinghua University

会议简介 / Introduction

随着智能化、网联化技术的快速发展，智能交通系统和智慧城市相关基础设施的建立取得了积极进展。智能网联汽车作为车联网技术与自动驾驶技术的载体，可有效提升道路通行效率与行驶安全。在智能网联汽车算法的开发中，面向复杂交通场景需要开发高鲁棒性决策算法，面向车辆运行过程中的多种随机扰动，需要开发高实时性控制算法，保证智能网联汽车的安全可靠运行。本会议汇聚来自学术界与产业界的研究人员，共同探讨智能网联车辆决策控制技术与应用，为产业发展献计献策。

With the rapid development of intelligent and connected technologies, positive progress has been made in the establishment of intelligent transportation systems and smart city-related infrastructure. As a carrier of V2X technology and autonomous driving technology, intelligent and connected vehicles can effectively improve road traffic efficiency and driving safety. In the development of intelligent and connected vehicle algorithms, highly robust decision-making algorithms need to be developed for complex traffic scenarios, and highly real-time control algorithms need to be developed for various random disturbances during vehicle operation to ensure the safety and reliability of intelligent and connected vehicles. This conference brings together researchers from academia and industry to discuss intelligent and connected vehicle decision-making control technology and applications, and to provide suggestions for industrial development.

日程 / Agenda

13:30-13:50

主持嘉宾 / Moderator
超大型重载车辆整车控制系统及应用
Vehicle Control System and Application for Ultra Large Heavy-duty Vehicles
胡满江 / HU Manjiang
湖南大学整车先进设计制造技术全国重点实验室副主任
Deputy Director of State Key Laboratory of Advanced Design and Manufacturing Technology for Vehicle, Hunan University

13:50-14:10

具备风险意识的端到端驾驶决策及轻量化改良方案
An End-to-end Decision Making Architecture with Driving Risk Awareness and Lightweight Improvement
李国法 / LI Guofa
重庆大学机械与运载工程学院教授
Professor, College of Mechanical and Vehicle Engineering, Chongqing University

14:10-14:30

井下自动驾驶矿车泊车路径规划方法
Parking Path Planning Method for Underground Self-driving Mine Trucks
陈志军 / CHEN Zhijun
武汉理工大学智能交通系统研究中心智能所副所长
Deputy Director of Intelligent Institute, Intelligent Transportation Systems Research Center, Wuhan University of Technology

14:30-14:50

汽车学习与驾驶安全
Vehicle Learning and Driving Safety
高洪波 / GAO Hongbo
中国科学技术大学研究员
Researcher, University of Science and Technology of China

14:50-15:10

依托强化学习的自动驾驶集成式决控网络训练与应用
Training and Application of an Integrated Decision-Control Network for Autonomous Driving Based on Reinforcement Learning
段京良 / DUAN Jingliang
北京科技大学机械工程学院副教授
Associate Professor, School of Mechanical Engineering, University of Science and Technology Beijing

15:10-15:30

露天矿山无人驾驶车辆规划与控制关键技术
Key Technologies of Control and Planning for Autonomous Vehicles in Opencast Mines
杨泽宇 / YANG Zeyu
湖南大学机械与运载工程学院副研究员
Associate Researcher, College of Mechanical and Vehicle Engineering, Hunan University

15:30-15:45 **互动讨论 / Panel Discussion**

15:45-16:00 **茶歇 / Coffee Break**

备注 / Note 每位演讲嘉宾有20分钟演讲时间+5分钟问答时间
Each Speaker will have 20 minutes for speech and 5 minutes for Q&A

T4 专题论坛：智能驾驶车辆决策控制一体化设计与应用
Thematic Forum: The Integrated Design and Application of Decision Control for Intelligent Driving Vehicles

专题论坛：智能驾驶车辆决策控制一体化设计与应用 **T4**
Thematic Forum: The Integrated Design and Application of Decision Control for Intelligent Driving Vehicles

16:00-18:00
6月19日 / Jun.19th

智汇楼 · 101会议室
Zhihui Building · Conference Room 101

会议信息 / Information

日程 / Agenda

会议主席 / Chairperson

主持嘉宾 / Moderator
郭洪艳 / GUO Hongyan
吉林大学汽车底盘集成与仿生全国重点实验室副主任、教授
Professor, Deputy Director of National Key Laboratory of Automotive Chassis Integration and Bionics, Jilin University

褚洪庆 / CHU Hongqing
同济大学汽车学院副教授
Associate Professor, School of Automotive Studies, Tongji University

学术联络人 / Academic Liaison

刘俊 / LIU Jun
吉林大学汽车底盘集成与仿生全国重点实验室讲师
National Key Laboratory of Automotive Chassis Integration and Bionics, Jilin University

协办单位 / Co-organizer

吉林大学汽车底盘集成与仿生全国重点实验室
同济大学汽车学院
National Key Laboratory of Automotive Chassis Integration and Bionics, Jilin University
School of Automotive Studies, Tongji University

会议简介 / Introduction

随着生成式AI以及深度学习、机器学习技术的在智能驾驶领域广泛应用，以及海量大数据的发布与共享，汽车行业正面临百年未有之大变局。智能驾驶技术的快速发展正引领着汽车产业向着全新的未来迈进。学习型以及端到端自动驾驶决策技术的不断突破，为智能驾驶的实现开辟了新的可能性，大模型驱动的自动驾驶、一体化轨迹预测与规划、以及智能网联汽车的协同规划与决策，已经成为引领汽车行业创新的关键驱动力。在这一背景下，本次会议旨在深入探讨智能驾驶技术的前沿探索与实践，探究规控一体化、决控一体化的最新研究成果和实际应用可行性，共同探讨如何将最新的科技成果应用于智能驾驶领域，推动汽车产业朝着更安全、更高效、更智能的方向发展。我们希望为参与者提供一个智能驾驶车辆决控一体化设计与应用的全面视角，推动该领域的科技创新和实际应用。

With the widespread application of generative AI, deep learning, and machine learning technologies in the field of intelligent driving, along with the release and sharing of massive datasets, the automotive industry is undergoing a once-in-a-century transformation. The rapid development of intelligent driving technologies is leading the automotive industry towards a completely new future. Continuous breakthroughs in learning-based and end-to-end autonomous driving decision technologies are opening up new possibilities for the realization of intelligent driving. Large model-driven autonomous driving, integrated trajectory prediction and planning, and the collaborative planning and decision-making of intelligent connected vehicles have become key driving forces for innovation in the automotive industry. Against this backdrop, this conference aims to delve into the cutting-edge exploration and practical application of intelligent driving technologies, explore the latest research results and practical feasibility of regulation and control integration, and decision and control integration. It seeks to discuss how to apply the latest scientific achievements to the field of intelligent driving and drive the automotive industry towards safer, more efficient, and smarter directions. We hope to provide participants with a comprehensive perspective on the integrated design and application of decision control for intelligent driving vehicles, promoting technological innovation and practical applications in this field.

16:00-16:20

AI大模型驱动的自动驾驶算法研究进展
Prospective Role of AI Foundation Models in Advancing Autonomous Vehicles

高炳钊 / GAO Bingzhao
同济大学智能汽车研究所副所长
Tongji University

16:25-16:45

可微的自动驾驶一体化预测与规划算法
Differentiable Integrated Prediction and Planning for Autonomous Driving

吕辰 / LV Chen
南洋理工大学机械与宇航工程学院副教授
Associate Professor, School of Mechanical and Aerospace Engineering, Nanyang Technological University

16:50-17:10

高阶智能驾驶技术探索与实践
Exploration and Practice of Advanced Intelligent Driving Technology

崔茂源 / CUI Maoyuan
中国第一汽车股份有限公司研发总院首席
Chief of FAW Global R&D Center

17:15-17:35

端到端自动驾驶的实践挑战
Application Challenges of End-to-end Autodriving

于乾坤 / YU Qiankun
上汽集团人工智能实验室首席技术官
CTO of SAIC AI Lab

17:40-18:00

面向驾驶意图表征增强的学习型自动驾驶决策
Learning-Based Autonomous Driving Behavior Planning with Enhanced Driving Intention Representation

吴京达 / WU Jingda
香港理工大学民航与航空工程系博士后研究员
Department of Aeronautical and Aviation Engineering, Hong Kong Polytechnic University

备注 / Note 每位演讲嘉宾有20分钟演讲时间+5分钟问答时间
Each Speaker will have 20 minutes for speech and 5 minutes for Q&A

T5 专题论坛:智能座舱人机交互与人机共驾创新技术
Thematic Forum: Intelligent Cockpit Innovative Technology of Human-Machine Interaction and Collaboration

专题论坛:智能座舱人机交互与人机共驾创新技术 **T5**
Thematic Forum: Intelligent Cockpit Innovative Technology of Human-Machine Interaction and Collaboration

09:30-12:00
6月20日 / Jun.20th

日新楼 · 多功能厅A
Rixin Building · Conference Hall A

会议信息 / Information

会议主席 / Chairperson

主持嘉宾 / Moderator
郭钢 / GUO Gang
重庆大学机械与运载工程学院教授
Professor, College of Mechanical and Vehicle Engineering, Chongqing University

主持嘉宾 / Moderator
曹东璞 / CAO Dongpu
清华大学智能绿色车辆与交通全国重点实验室首席研究员
Chief researcher of State Key Laboratory of Intelligent Green Vehicles and Transportation, Tsinghua University

学术联络人 / Academic Liaison

李文博 / LI Wenbo
重庆大学机械与运载工程学院副教授
Associate Professor, College of Mechanical and Vehicle Engineering, Chongqing University

协办单位 / Co-organizer

中国汽车工程学会汽车智能座舱分会（筹）
China Society of Automotive Engineers Automotive Intelligent Cockpit Branch (Preparatory)

会议简介 / Introduction

在智能座舱领域，人机交互技术和人机共驾创新技术的发展备受行业和学界重视，并成为推动智能网联汽车技术落地、市场升级的关键突破口。本论坛旨在聚集来自不同技术背景的企业和研究机构专家，共同研讨人机交互和人机共驾领域的最新技术进展和挑战。论坛将通过精彩的主题演讲和深入的圆桌讨论，覆盖人机交互研发趋势与场景创新、多模态主动交互挑战、AI大模型赋能人机交互研发到创新人机交互与人机共驾技术融合驱动对驾驶安全和用户体验提升等多个维度。此外，将讨论在发展舱驾融合技术中的总体路线规划和瓶颈难点，为行业内的技术人员提供互动交流和共同学习的平台。

In the field of intelligent cockpits, the innovative development of human-machine interaction technology and human-machine co-driving technology has garnered significant attention from both industry and academic circles. They have become key breakthrough points in implementing intelligent connected vehicle technologies and market upgrades. This forum aims to gather experts from enterprises and research institutions with diverse technological backgrounds to discuss the latest technological advances and challenges in the fields of human-machine interaction and co-driving. The forum will cover multiple dimensions through exciting keynote speeches and in-depth roundtable discussions, including trends and scenario innovations in human-machine interaction R&D, challenges in multimodal active interactions, empowering human-machine interaction R&D with large AI models, and the integration of innovative human-machine interaction and co-driving technologies to enhance driving safety and user experience. Additionally, it will discuss the overall roadmap planning and bottleneck difficulties in developing integrated intelligent cockpit and automated driving technologies, providing a platform for technical personnel within the industry to interact, exchange ideas, and learn together.

日程 / Agenda

09:30-09:45
空间智能交互用户体验与Coffee OS 3实践
Intelligent Spatial UX and Coffee OS 3
佘士东 / SHE Shidong
长城汽车智能产品部产品总监
Director of Intelligent Products, GWM

09:45-10:00
AI赋能下的智能出行新体验
AI-powered New Experiences in Smart Mobility
笪琦 / DA Qi
北汽研究总院智能网联中心智能座舱部部长
Director of Intelligent Cockpit Department in the Intelligent Networking Center Beijing Automotive Research Institute Co., Ltd.

10:00-10:15
讯飞星火大模型推动座舱交互技术发展创新
IFlytek Spark Model Promotes Innovation in Cockpit Interaction Technology Development
邢猛 / XING Meng
科大讯飞股份有限公司资深产品专家兼北方大区总经理
Senior Product Expert and General Manager of the Northern Region, iFLYTEK CO., LTD.

10:15-10:30
AMD赋能下一代沉浸式智能座舱
AMD Empowering Next Generation Immersive Smart Cockpit
张磊 / ZHANG Lei
超威半导体汽车市场业务拓展总监
Director of Business Development, AMD

10:30-10:45
车辆全生命周期软件技术布局
Vehicle Lifecycle Software Technology Layout
闫凯 / Manson
杭州车凌网络科技有限公司副总裁
VP, Carlinx Multi Tech Co., Ltd.

10:45-11:00
应对车载行业需求的闪存技术演进
Evolving Flash Memory Solutions to Meet Automotive Industry Demands
耿华 / Allen GENG
西部数据公司市场经理
Segment Marketing, Western Digital

11:00-12:00
互动讨论 / Panel Discussion

人机交互与人机共驾创新技术发展与挑战
—如何利用智能座舱创新人机交互技术提升人机共驾的驾驶安全与用户体验？
—当前企业在发展舱驾融合技术中的总体路线规划和瓶颈难点？

09:00-12:20
6月20日 / Jun.20th

日新楼 · 多功能厅B
Rixin Building · Conference Hall B

会议信息 / Information

会议主席 / Chairperson

主持嘉宾 / Moderator
杨殿阁 / YANG Diange
中国汽车工程学会会士，清华大学车辆与运载学院教授
Fellow, China SAE; Professor of School of Vehicle and Mobility, Tsinghua University

学术联络人 / Academic Liaison

江昆 / JIANG Kun
清华大学车辆与运载学院副研究员
Associate Researcher, School of Vehicle and Mobility, Tsinghua University

杨蒙蒙 / YANG Mengmeng
清华大学车辆与运载学院高级工程师
Senior Engineer, School of Vehicle and Mobility, Tsinghua University

会议简介 / Introduction

自动驾驶地图与定位技术是智能网联汽车的重要组成部分，它们共同为车辆提供准确的环境感知和位置信息，确保车辆能够安全、有效地自主行驶。自动驾驶地图地图的鲜度与合规性、定位精度及可靠性已成为目前行业关注的重点，本分会从端到端建图、高精度定位、地图合规性、众源更新等多维度分析自动驾驶地图与定位技术，促进地图在辅助驾驶及高级别自动驾驶中的广泛应用，增强自动驾驶系统的安全性、可靠性与舒适性。

Autonomous driving mapping and localization technologies are crucial components of intelligent connected vehicles. They jointly provide vehicles with accurate environmental perception and location information, ensuring that the vehicles can safely and effectively navigate autonomously. The freshness and compliance of autonomous driving maps, as well as the accuracy and reliability of localization, have become the focus of industry attention. This session will analyze autonomous driving mapping and localization technologies from multiple dimensions such as end-to-end mapping, high-precision localization, map compliance, and crowdsourced updates. The goal is to promote the widespread application of maps in assisted driving and high-level autonomous driving, and enhance the safety, reliability, and comfort of autonomous driving systems.

日程 / Agenda

09:00-09:15
自动驾驶场景下地理信息安全探讨
Geo-data Security Issues under Auto-Pilot Driving Scenario
蔡艳辉 / CAI Yanhui
国家测绘产品质量检验测试中心质检三处副处长
Vice Director, Department III, National Quality Inspection and Testing Center for Surving and Mapping Products

09:20-09:35
自动驾驶地图审查与安全合规
Supervision and Safety Compliance of Autonomous Driving Maps
黄龙 / HUANG Long
自然资源部地图技术审查中心监控处副处长
Deputy Director of Monitoring Department, Map Supervision Centre, Ministry of Natural Resources

09:40-09:55
智能汽车基础地图标准体系建设指南
Construction Guidelines for the Intelligent Vehicle Basic Map Standard System
马小龙 / MA Xiaolong
中国测绘科学研究院副研究员
Associate Researcher, Chinese Academy of Surveying and Mapping

10:00-10:15
从结构化地图理解到真实感驾驶场景渲染
From Structured Map Understanding to Photorealistic Driving Scene Rendering
赵昊 / ZHAO Hao
清华大学智能产业研究院助理教授
Assitant Professor, Institute for AI Industry Research (AIR), Tsinghua University

10:20-10:35
规模化时空信息加速量产智能驾驶的发展
Accelerating the Development of Mass-production Level Autonomous Driving Technology through Scaled Timetemporal Information
袁弘渊 / YUAN Hongyuan
蔚来汽车自动驾驶高级总监、资深专家
Senior Director & Senior Expert, Autonomous Driving Department, NIO Inc.

10:40-10:55
大模型重构自动驾驶地图实践
Practice of Reconstructing Autonomous Driving Maps with Large Models
刘玉亭 / LIU Yuting
北京百度智图科技有限公司总经理
General Manager, Beijing Baidu Mapping Technology Co., Ltd.

11:00-11:15
高精度定位多合一闭环解决方案
High Precision Positioning all in One Closed-loop Solution
李阳 / LI Yang
北京市四维图新科技股份有限公司技术委员会主席
Chairman of Technology Committee, NavInfo

11:20-11:35
基于众源数据的轻地图构建与服务
Crowd Source Based HD Air Map Pipeline and Service
马常杰 / MA Changjie
腾讯地图地图数据负责人
Tencent

11:40-11:55
智能网联汽车高精定位需求挑战与解决方案
High-precision Positioning Requirements, Challenges and Solutions for Intelligent Connected Vehicle
李庆建 / LI Qingjian
国汽大有时空科技（安庆）有限公司CTO
CTO, CHINA DAYOU POSITIONING INTELLIGENCE (ANQING) CO., LTD.

12:00-12:15
高精度高安全性车载GNSS定位系统的开发和集成
Development and Integration of a Precise, Safe, GNSS Based Vehicle Localisation System
许东阳 / XU Dongyang
海克斯康修正参数服务组软件开发与测试工程师
Hexagon

备注 / Note
每位演讲嘉宾有15分钟演讲时间+5分钟问答时间
Each Speaker will have 15 minutes for speech and 5 minutes for Q&A

T7 专题论坛：车路云一体化标准研究进展与协同
Thematic Forum: Research Progress and Collaboration of Vehicle-Road-Cloud Integration Standards

专题论坛：车路云一体化标准研究进展与协同 **T7**
Thematic Forum: Research Progress and Collaboration of Vehicle-Road-Cloud Integration Standards

09:00-12:30
6月20日 / Jun.20th

日新楼 · 第一会议室
Rixin Building · Conference Room 1

会议信息 / Information

会议主席 / Chairperson

主持嘉宾 / Moderator
公维洁 / GONG Weijie
中国汽车工程学会副秘书长，中国智能网联汽车产业创新联盟秘书长
Deputy Secretary-General，China Society of Automotive Engineers; Secretary-General, CAICV

学术联络人 / Academic Liaison

孙航 / SUN Hang
中国汽车标准化研究院副总工程师
Deputy Chief Engineer, China Auto Standardization Research Institute（CASRI）

陈桂华 / CHEN Guihua
中国汽车工程学会汽车智能化与未来出行研究中心标准与咨询部部长、中国智能网联汽车产业创新联盟副秘书长、国家智能网联汽车创新中心标准与咨询部部长
The Head of Standards and Consulting Department, Automotive Intelligence and Future Mobility Research Center, CSAE; Deputy Secretary General of CAICV; The Head of Standards and Consulting Department, National Innovation Center of Intelligent and Connected Vehicles

会议简介 / Introduction

经过十余年的发展，全国已建设17个国家级测试示范区，7个国家级车联网先导区，16个双智试点城市，积极推进车联网基础设施建设、互联互通验证、规模化试点示范等。我国智能网联汽车已经从小范围测试验证转入技术快速发展、生态加速构建的新阶段，在产业应用、技术研发等方面与其他国家和地区形成了并跑态势。2024年1月，五部门联合印发《关于开展智能网联汽车"车路云一体化"应用试点的通知》，推动建成一批架构相同、标准统一、业务互通、安全可靠的城市级应用试点项目。
车路云一体化智能网联汽车的发展路径涉及汽车、通信、电子、公安、测绘、住建、交通等多个领域，在深入推进车路云一体化测试示范的过程中，仍存在跨行业跨区域标准协同不足、测试规程及建设规范不统一、基础设施建设碎片化、数据互通不足等问题。

After more than ten years of development, China has built 17 national-level test demonstration zones, 7 national-level vehicle networking pilot zones, and 16 dual-smart pilot cities, actively promoting the construction of vehicle networking infrastructure, connectivity verification, and large-scale pilot demonstration. China's intelligent connected vehicles have been transferred from small-scale testing and verification to a new stage of rapid technological development and accelerated ecological construction, and have formed a parallel trend with other countries and regions in industrial application, technology research and development. In January 2024, the five departments jointly issued the Notice on the Pilot application of "Vehicle-Road-Cloud Integration" for intelligent Connected Vehicles, promoting the construction of a number of city-level application pilot projects with the same architecture, unified standards, business interoperability, and safety and reliability.
The development path of vehicle-road-cloud integrated intelligent networked vehicles involves many fields such as automobiles, communications, electronics, public security, surveying and mapping, housing construction, transportation, etc. In the process of in-depth promotion of vehicle-road-cloud integration test demonstration. There are still problems such as insufficient coordination of cross-industry and cross-regional standards, inconsistent testing procedures and construction specifications, fragmented infrastructure construction, and insufficient data interoperability.
In order to promote cross-industry and cross-field standard coordination, promote the pilot demonstration of vehicle, road and cloud integration. Experts from the National Standardization Technical Committee in the fields of automobile, transportation, communications, public security, surveying and mapping, standardization organizations in related industries, and test demonstration zones are invited. Exchanges will be carried out on topics such as standard system planning and research progress, supporting the formulation of regulations, and promoting the demonstration of vehicle-road-cloud integration applications.

日程 / Agenda

09:00-09:20
智能网联汽车标准体系的建设与发展
The Status and Development Of Intelligent and Connected Vehicles Standard System
孙航 / SUN Hang
中国汽车标准化研究院副总工程师
Deputy chief engineer of China Auto Standardization Research Institute(CASRI)

09:20-09:40
车路云一体化——信息通信领域标准化建设与思考
Vehicle-Infrastructure - Cloud Integration System: Construction and Consideration of ICT Standardization
房家奕 / FANG Jiayi
中国通信标准化协会物联网技术委员会车联网工作组副组长
Vice Leader of the Working Group of lot Technical Committee of China Communication Standardization Association

09:40-10:00
智驾的刚需——交通指挥数字信号
Rigid Demand for Intelligent Driving - Traffic Command Digital Signal
刘东波 / LIU Dongbo
公安部交通管理科学研究所副所长
Deputy Director of Traffic Management Research Institute of the Ministry of Public Security

10:00-10:20
加快智能网联汽车标准建设，推动时空数据安全合规应用
Accelerate the Construction of Intelligent Connected Vehicle Standards, and Promote the Application of Spatio-temporal Data Security Compliance
方驰宇/ FANG Chiyu
中国测绘科学研究院副研究员
Associate Researcher of Chinese Academy of Surveying & Mapping

10:20-10:40
智能网联基础设施标准化建设，推动"车路云一体化"应用发展
Accelerate the Construction of Intelligent Connected Vehicle Standards, and Promote the Application of Spatio-temporal Data Security Compliance
梁昌征 / LIANG Changzheng
中国城市规划设计研究院城市交通分院智慧城市基础设施研究中心主任

10:40-11:00
慧公路标准体系建设，推动数字化基础设施建设及车联网管理服务
Construction of Smart Highway Standard System, Promotion of Digital Infrastructure Construction and Vehicle Networking Management Services
卢立阳 / LU Liyang
交通运输部公路科学研究院智能交通研究中心室主任
Director, ITS Centre Research, Research Institute of Highway Ministry of Transport

11:00-11:20
车路云一体化标准体系建设及应用试点推荐标准清单
Construction of Vehicle-Road-Cloud Integration Standard System and Sorting Out the List of Recommended Standards for Application Pilot
陈桂华 / CHEN Guihua
中国汽车工程学会汽车智能化与未来出行研究中心标准与咨询部部长
Head of Standards and Consulting Department, Automotive Intelligence and Future Mobility Research Center, China Society of Automotive Engineering(CSAE)

11:20-11:40
无锡先导区建设场景落地与标准协同的体会
The Experience of the Construction Scene Landing and Standard Coordination in Wuxi Internet of Vehicles Pilot Area
郑培余 / ZHENG Peiyu
无锡市车城智联科技有限公司副总经理、总工程师
General Engineer of City Internet Of Vehicles(Wuxi) Intelligence Co., Ltd.

11:40-12:30 互动讨论 / Panel Discussion

议题1 标准协同机制完善
Topic 1 Improvement of Standard Coordination Mechanism

议题2 车路云一体化应用试点跨界交叉标准需求
Topic 2 Requirements for Cross-Boundary Cross Standards for Vehicle, Road and Cloud Integration Pilot Applications

09:30-12:25
6月20日 / Jun.20th

日新楼 · 试制试装中心
Rixin Building · Trial Production Center

会议信息 / Information

日程 / Agenda

会议主席 / Chairperson

宋景良 / SONG Jingliang
东风汽车集团有限公司专职董事、研究员级高级工程师
Full-time Director and Researcher-level Senior Engineer, Dongfeng Motor Corporation

主持嘉宾 / Moderator
邹渊 / ZOU Yuan
北京理工大学机械与车辆学院车辆系书记、教授、博导
Secretary, Professor and Doctoral Supervisor, Vehicle Department, School of Mechanical and Vehicle Engineering, Beijing Institute of Technology

学术联络人 / Academic Liaison

唐风敏 / TANG Fengmin
国家智能网联汽车创新中心架构事业部总经理、高级工程师
General Manager and Senior Engineer, Architecture Business Unit, National Innovation Center of Intelligent and Connected Vehicles

协办单位 / Co-organizer

中国汽车工程学会智能网联汽车系统架构分会
China SAE Branch of ICV System Architecture

会议简介 / Introduction

基于全球汽车产业发展现状，电子电气架构作为智能网联汽车基础支撑与关键共性技术的集中载体，需打破传统架构体系来定义新型电子电气架构。随着汽车电动化、智能化、网联化的深度发展，车内控制系统趋于形成统一的架构标准及通用的软硬件平台，各类控制功能逐渐演变为统一平台下的各类应用。其技术演进有四个关键趋势：计算集中化、软硬件解耦化、平台标准化以及功能开发生态化。为了支撑智能网联汽车新一代电子电气架构开发，需与多学科跨领域前沿技术融合，涵盖SOA、虚拟化、云计算等计算机科学与软件工程、通信和云等ICT（信息通信技术）技术、人工智能技术、系统工程与集中技术以及新材料和跨领域技术的车载应用等。

Based on the current development status of the global automotive industry, as the basic support and the concentrated carrier of key common technologies of intelligent connected vehicles, the electronic and electrical architecture needs to break through the traditional architecture system and define a new type of electronic and electrical architecture. With the deep development of electrification, intelligence, and networking in automobiles, the in-car control systems tend to form a unified architecture standard and a universal software and hardware platform, and various control functions gradually evolve into various applications under a unified platform. There are four key trends in EEA's technological evolution: computing centralization, software and hardware decoupling, platform standardization, and functional development ecology. In order to support the development of the new-generation EEA for intelligent and connected vehicles, it is necessary to integrate cutting-edge multidisciplinary and interdisciplinary technologies, including computer science and software engineering such as SOA, virtualization, cloud computing, ICT (Information and Communication Technology) technology such as communication and cloud, artificial intelligence technology, system engineering and centralized technology, as well as in-vehicle applications of new materials and other cross-domain technologies.

09:30-09:50
数字化和虚拟化架构设计和测试技术
Digital and Virtualization Architecture Design and Testing Techniques
张旭东 / ZHANG Xudong
北京理工大学电动车辆国家工程研究中心副主任
Deputy Director, National Engineering Research Center of Electric Vehicles, Beijing Institute of Technology

09:55-10:15
岚图中央集中式电子电气架构实践
VOYAH Practice of Central EE Architecture
司华超 / SI Huachao
岚图汽车科技有限公司电气系统架构总监
Director of EEA, VOYAH Automobile Technology Co., Ltd.

10:20-10:40
智能网联汽车确定性通信网络体系
Deterministic Communication Networks for Intelligent Connected Vehicles
朱海龙 / ZHU Hailong
北京邮电大学信息与通信工程学院副教授
Associate Professor, School of Information and Communication, Beijing University of Posts and Telecommunication

10:45-11:05
电动汽车电子电气架构演进路线
Evolution Route of EEA for Electric Vehicles
蒋峰 / JIANG Feng
重庆长安科技有限责任公司电子电气架构部门副总工程师
Deputy Chief Engineer of EE Architecture, Chongqing Changan Technology Co., Ltd.

11:10-11:30
从系统架构到电子电器架构
From System Architecture to Electrical/Electronic Architecture
吴玲燕/ WU Lingyan
达索系统亚太区CATIA系统工程能力中心高级业务咨询顾问
Expert Senior Specialist, CATIA Cyber Systems APAC Industry Process, Dassault Systemes

11:35-11:55
星闪无线短距通信技术进展与车载应用
Progress of SparkLink Wireless Communications and its Applications for Vehicle
甄斌 / ZHEN Bin
国际星闪无线短距通信联盟标准经理
Standard Manager, International SparkLink Wireless Short-Range Communication Alliance

12:00-12:20
智能网联车时代下对汽车安全体系架构的思考
Towards Safety Architecture in the Era of ICV
ZENG Haibo
Professor, Electrical and Computer Engineering, Virginia Tech

备注 / Note
每位演讲嘉宾有20分钟演讲时间+5分钟问答时间
Each Speaker will have 20 minutes for speech and 5 minutes for Q&A

🕘 09:30-11:30
6月20日 / Jun.20th
📍 智汇楼 · 101会议室
Zhihui Building · Conference Room 101

会议信息 / Information

会议主席 / Chairperson

郑继虎 / ZHENG Jihu
国家智能网联汽车创新中心常务副主任，国汽（北京）智能网联汽车研究院有限公司总经理
Executive Deputy Director of National innovation Center of intelligent and Connected Vehicles; General Manager, China Intelligentand Connected Vehicles (Beijing) Research Institute Co., Ltd.

学术联络人 / Academic Liaison

主持嘉宾 / Moderator
方锐 / FANG Rui
国家智能网联汽车创新中心安全事业部总经理
General Manager of the Safety Division, National innovation Center of intelligent and Connected Vehicles

会议简介 / Introduction

随着汽车智能化、网联化快速发展，在传统安全的基础上出现了功能安全、预期功能安全、网络安全、数据安全和融合安全新挑战。本次智能网联汽车安全专题论坛面向安全技术应用与实践，聚焦融合安全前瞻领域共性技术、功能安全与预期功能安全技术、网络安全与数据安全技术等内容展开讨论，为行业搭建智能网联汽车安全关键共性技术交流平台。

日程 / Agenda

09:30-10:30 智能网联汽车融合安全探索与实践
Exploration and Practice of Safety and Security in Intelligent and Connected Vehicles

09:30-09:50
智能网联汽车融合安全相关创新研究
Research on Safety & Security Fusion for ICVs
曹耀光 / CAO Yaoguang
北京航空航天大学交通科学与工程学院副研究员
Associate Researcher of the Transportation Science and Engineering School, Beihang University

09:50-10:10
智能网联汽车融合安全工程探索与落地
Intelligent and Connected Vehicles CTO Closed-door Summit
方锐 / FANG Rui
国家智能网联汽车创新中心安全事业部总经理
General Manager of the Safety Division, National innovation Center of intelligent and Connected Vehicles

10:10-10:30
满足DCAS市场准入要求的安全融合要求
Integrated Safety to Meet DCAS Compliance Requirements
黄清泉 / HUANG Qingquan
南德认证检测（中国）有限公司上海分公司高度自动驾驶业务线 负责人
Head of Highly Automated Driving TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

10:30-11:30 功能安全与预期功能安全新技术与应用
New Technologies and Applications in Functional Safety and Safety of the Intended Functionality

10:30-10:50
基于安全脑平行架构的高等级智能汽车安全技术探索与实践
Exploration and Practice of High-Level Intelligent Vehicle Safety Technology Based on Safety Brain Parallel Architecture
杨雪珠 / YANG Xuezhu
中国第一汽车集团有限公司系统安全高级主任
Senior Director of System Safety, China FAW Group Co., Ltd.

10:50-11:10
自动驾驶出租车的安全标准探讨
Discussion on the Safety Standards of Robotaxi
路伟 / LU Wei
滴滴自动驾驶 系统设计与安全评估负责人
Director of System Design and Safety Evaluation, DiDi Autonomous Driving

11:10-11:30
大众L2功能的预期功能安全实践探索
VW L2 ADAS function SOTIF Development and Exploration
柴腾飞 / CHAI Tengfei
大众酷翼（北京）科技有限公司智能驾驶开发部智能驾驶预期功能安全专家
SOTIF Expert, TF Department, CARIAD China

🕘 14:00-17:35
6月20日 / Jun.20th
📍 日新楼 · 试制试装中心
Rixin Building · Trial Production Center

14:00-17:35 网络安全与数据安全新技术与应用
New Technologies and Applications in Cyber Security and Data Security

14:00-14:20
汽车网络安全开发与应用实践
Development and Application Practice of Automotive Cybersecurity
孙伟 / SUN Wei
东风汽车集团有限公司研发总院数字化及能力保障部副总工程师
DongFeng Motor Corporation Research & Development Institute, Deputy Chief Engineer

14:25-14:45
车联网安全测试体系建设展望
Outlook on the Construction of Vehicle Networking Security Test System
柯皓仁 / KE Haoren
中国信息通信研究院安全研究所车联网中心主任
Director, Vehicle Networking Center, Security Research Institute, China Academy of Information and Communications Technology

14:50-15:10
智能网联汽车漏洞问题
Intelligent connected car vulnerability problem
李玉峰 / LI Yufeng
上海大学教授，紫金山实验室智能网联汽车安全负责人
Professor, Shanghai University; Purple Mountain Laboratories

15:15-15:35
勇担使命，共筑智网新生态；携手前行，同创安全新未来
Embrace the Mission, Build a New Ecosystem of CUSC; Proceed Hand-in-Hand, Create a New Future of Security
关泰璐 / GUAN Tailu
联通智网科技股份有限公司数字化与信息安全支撑部总经理
GM, Digital and Information Security Department, China Unicom Smart Connection Technology Limited

15:40-16:00 茶歇 / Coffee Break

16:00-16:20
汽车网络安全免疫体系
The Immune System of Automotive Cybersecurity
李程 / LI Cheng
浙江极氪智能科技有限公司安全总监
Security Director, Zhejiang Zeekr Intelligent Technology Co., LTD.

16:25-16:45
智能网联汽车网络安全、数据安全的下一步思考
The Next Steps for Network Security and Data Security of Intelligent Connected Vehicles
邹博松 / ZOU Bosong
赛迪研究院智能网联汽车研究测评事业部主任
Director, Intelligent Connected Vehicle Research and Evaluation Division, CCID

16:50-17:10
数据保护在路上：智能网联汽车数据安全挑战与行业实践
Data Protection on the Road: Data Security Challenges and Industry Practices of Intelligent Connected Vehicles
李鹏飞 / LI Pengfei
国汽（北京）智能网联汽车研究院有限公司安全事业部网络安全部信息安全业务线总监
China Intelligent and Connected Vehicles (Beijing) Research Institute Co., Ltd.

17:15-17:35
汽车网络安全国家标准体系建设及重点标准研究进展
Research on Vehicle Cybersecurity Standard System and Key Standards
李宝田 / LI Baotian
中国汽车技术研究中心有限公司中国汽车标准化研究院智能网联部工程师
Engineer of ICV Department, China Automotive Technology & Research Center Co., Ltd. China Automotive Standardization Research Institute

会议主席 / Chairperson

杨世春 / YANG Shichun
中国汽车工程学会会士，北京航空航天大学交通科学与工程学院院长、教授
Fellow of China SAE; Professor and Dean, School of Transportation Science and Engineering, Beihang University

学术联络人 / Academic Liaison

方锐 / FANG Rui
国家智能网联汽车创新中心安全事业部总经理
General Manager of the Safety Division, National innovation Center of intelligent and Connected Vehicles

主持嘉宾 / Moderator
曹耀光 / CAO Yaoguang
北京航空航天大学交通科学与工程学院副研究员
Associate Researcher of the Transportation Science and Engineering School, Beihang University

会议简介 / Introduction

With the rapid development of intelligent and connected vehicles, new challenges such as Functional Safety, Safety of the Intended Functionality, Cyber Security, Date Security, and Safety & Security have emerged based on traditional safety. This special forum on intelligent and connected vehicle safety focuses on the application and practice of safety technologies, as well as discusses the common technology of the safety and security frontier field, functional safety and safety of the intended functionality technology, cyber security and data security technology, aiming to build a platform for the exchange of key common technologies for intelligent and connected vehicle safety in the industry.

备注 / Note

每位演讲嘉宾有20分钟演讲时间+5分钟问答时间
Each Speaker will have 20 minutes for speech and 5 minutes for Q&A

14:30-17:30
6月20日 / Jun.20th

日新楼 · 多功能厅A
Rixin Building · Conference Hall A

会议信息 / Information

日程 / Agenda

会议主席 / Chairperson

主持嘉宾 / Moderator
张俊智 / ZHANG Junzhi
中国汽车工程学会会士，清华大学车辆与运载学院教授
Fellow of China SAE; Professor of School of Vehicle and Mobility, Tsinghua University

主持嘉宾 / Moderator
高镇海 / GAO Zhenhai
中国汽车工程学会会士，吉林大学汽车工程学院院长
Fellow of China SAE; Dean, School of Automotive Engineering of Jilin University, Jilin University

侯杰 / HOU Jie
中国第一汽车集团有限公司研发总院先进底盘资深首席
Senior Chief of Advanced Chassis, Research and Development Institute, China FAW Group Co., Ltd.

学术联络人 / Academic Liaison

陈国迎 / CHEN Guoying
吉林大学汽车底盘集成与仿生全国重点实验室教授
Professor, College of Automotive Engineering, Jilin University

许豪伦 / XU Haolun
比亚迪汽车工业有限公司产品技术规划中心高级工程师
Senior Research Engineer, Product Planning and Development Center, BYD Auto Industry Company Limited

协办单位 / Co-organizer

吉林大学汽车底盘集成与仿生全国重点实验室
比亚迪汽车工业有限公司
National Key Laboratory of Automotive Chassis Integration and Bionics, Jilin University
BYD Auto Industry Company Limited

会议简介 / Introduction

随着大数据、云计算、5G、人工智能、自动驾驶等新兴技术的兴起，汽车越来越智能化，全球汽车产业也迎来百年之未有的大变局。智能底盘进一步拓展了底盘的外延，使得底盘具备了高精度控制、状态可感知、快速响应和负扭矩的特性。在全线控一体化架构、纵横垂协同的动力学控制下综合改变了底盘动态性能，实现了高安全、极致用户体验和低碳化的底盘通用平台。

具有线控执行与异构冗余、软硬分离与软件分层、集中计算与高效协同等特点的全线控智能底盘平台，是保障高级别自动驾驶汽车安全行驶和产品竞争力的基础，更是智能汽车时代支撑汽车产业自主可控需攻克的关键"卡脖子"技术。EMB，轮毂电机，四轮独立转向等组成的高集成的新型行驶单元，给国内底盘技术及产业方面超越国际巨头提供了机遇，成为国内外技术竞争的焦点。为此，我们期望汇聚全行业的优秀学者和科研人员共同探讨，促进智能线控底盘行业的高质量发展。

With the rise of emerging technologies such as big data, cloud computing, 5G, artificial intelligence, and autonomous driving, automobiles are becoming increasingly intelligent, and the global automotive industry is experiencing unprecedented changes in a century. The intelligent chassis further expands the extension of the chassis, endowing it with features like high-precision control, state awareness, rapid response, and negative torque. Under the integrated architecture of full drive-by-wire and coordinated dynamics control across longitudinal, lateral, and vertical axes, the dynamic performance of the chassis is comprehensively improved, achieving a high level of safety, an exceptional user experience, and a low-carbon universal chassis platform.

The full drive-by-wire intelligent chassis platform, characterized by drive-by-wire execution with heterogeneous redundancy, software and hardware separation with layered software, and centralized computing with efficient coordination, is the foundation for ensuring the safe operation and product competitiveness of high-level autonomous vehicles. It is also a crucial "bottleneck" technology that the automotive industry must overcome to achieve autonomous control in the era of intelligent vehicles. Highly integrated new driving units composed of EMB (Electro-Mechanical Brakes), hub motors, and four-wheel independent steering provide opportunities for domestic chassis technology and industry to surpass international giants, becoming the focal point of technological competition both domestically and internationally. Therefore, we hope to gather outstanding scholars and researchers from across the industry for in-depth exchanges and discussions to promote the high-quality development of the intelligent drive-by-wire chassis industry.

14:30-14:50
一汽红旗智能动力底盘关键技术与创新实践
Faw Hongqi intelligent chassis key technology and innovation practice
李论 / LI Lun
中国第一汽车集团公司研发总院底盘开发部高级主任
Senior Director, FAW Research and Development Institute, Chassis Development

14:50-15:10
汽车线控底盘关键技术研发与产业化
Research and Industrialization of Key Technologies of Automotive Chassis-By-Wire Systems
熊璐 / XIONG Lu
同济大学汽车学院教授
Professor, School of Automotive Studies, Tongji University

15:10-15:30
面向智能电动汽车的科学计算与系统建模仿真平台及应用
Scientific Calculation and System Modeling Simulation Platform and Application for Intelligent Electric Vehicle
杨浩 / YANG Hao
苏州同元软控信息技术有限公司创新发展部部长，深圳景元数字科技有限公司总经理
Director of Innovation Development Department, Suzhou Tongyuan Software & Control Technology Co., Ltd.
General Manager of Shenzhen Jingyuan Suyu Technology Co., Ltd.

15:30-15:50
汽车智能化发展趋势和舍弗勒创新底盘产品和技术
The Development Trend of Automobile Intelligence and Schaeffler's Innovative Chassis Products and Technologies
孙海天 / SUN Haitian
舍弗勒贸易(上海)有限公司研发管理兼底盘系统市场与战略总监
R&D Management Dir. , Schaeffler Trading (Shanghai) Co., Ltd.

15:50-16:10
线控转向研发创新实践
Steeirng by Wire Development Practice
黄毅 / Chris HUANG
中汽创智科技有限公司转向系统及底盘底软开发总监
Development Director, Steering System and Chassis Software, China Automotive Innovation Corporation

16:10-17:30
圆桌讨论 / Panel Discussion

议题1：智能底盘的自主发展之路

议题2：数据驱动在智能底盘系统设计中的应用

🕐 14:00-17:30　6月20日 / Jun.20th　📍 日新楼 · 多功能厅B　Rixin Building · Conference Hall B

会议信息 / Information

会议主席 / Chairperson

主持嘉宾 / Moderator
李开国 / LI Kaiguo
中国汽车工程学会监事长、会士，中国汽车工程研究院股份有限公司专家委主任
Chairman of the Supervisory Committee and Fellow of China Society of Automotive Engineers
Director of the Expert Committee of China Automotive Engineering Research Institute Co., Ltd.

张强 / ZHANG Qiang
中国汽车工程研究院股份有限公司信息智能事业部副总经理、中汽院智能网联科技有限公司总经理、
智能汽车安全技术全国重点实验室副主任
Deputy General Manager of Information & Intelligence Division, CAERI
General Manager of CAERI Intelligent Connected Technology Co., Ltd.
Deputy Director of National Key Laboratory for Intelligent Vehicle Safety Technology

学术联络人 / Academic Liaison

唐宇 / TANG Yu
中国汽车工程研究院股份有限公司信息智能事业部专家
Expert of Information Intelligence Division, China Automotive Engineering Research Institute Co., Ltd.

协办单位 / Co-organizer
中国汽车工程研究院股份有限公司
China Automotive Engineering Research Institute Co., Ltd.

会议简介 / Introduction
本次会议将共同探讨自动驾驶商业化进程新形势下智能网联汽车测试评价技术的创新发展方向，围绕"AI+智能驾驶"、"新一代通信技术+云计算"等技术发展带来的智能汽车测试验证热点问题，促进形成行业共识。会议拟邀请政府、行业和企业专家，面向产品研发、测试验证及行业管理等角度的智能网联汽车测试评价新场景，重点研讨自动驾驶多支柱测评技术的新发展、车路云一体化对智能汽车测试验证的新需求、AI大模型赋能智能驾驶带来的安全性测评新挑战等热点话题。

This forum will jointly discuss the innovative development of ICV testing and evaluation technology under the new situation of the commercialization process of autonomous driving, and promote the formation of industry consensus around hot issues such as 'AI + Intelligent Driving' and 'New Generation Communication Technology + Cloud Computing', and the construction of corresponding new testing and verification capabilities. The forum plans to invite experts from the government, industry and enterprises to discuss new scenarios for ICV testing and evaluation from the perspectives of product development, testing & verification, and industry management. Key topics include the new development of multi-pillar evaluation technology for autonomous driving, new requirements for ICV testing and verification brought by vehicle-road-cloud integration, and new challenges in safety evaluation posed by the application of AI large models to intelligent driving.

日程 / Agenda

14:00-14:10
主席开场致辞 / Welcome Address
李开国 / LI Kaiguo
中国汽车工程学会监事长、会士，中国汽车工程研究院股份有限公司专家委主任
Chairman of the Supervisory Committee and Fellow of China Society of Automotive Engineers
Director of the Expert Committee of China Automotive Engineering Research Institute Co., Ltd.

14:10-14:30
NOA系统开发的安全目标及测评方法的探讨
Discussion on Safety Objectives and Evaluation Methods for NOA System Development
朱西产 / ZHU Xichan
同济大学汽车学院教授
Professor, School of Automotive Studies, Tongji University

14:30-14:50
自动驾驶沙盒监管及测评技术研究
Research on Testing and Evaluation Technology for Autonomous Vehicle Sandbox Regulation
董红磊 / DONG Honglei
国家市场监督管理总局缺陷产品召回技术中心博士
Doctor, SAMR Defective Product Recall Technical Center

14:50-15:10
香港自动驾驶应用及测试验证技术实践
Hong Kong Autonomous Driving Application and Testing Validation Technology Implementation
都永海 / DU Yonghai
香港汽车科技研发中心总经理，香港生产力促进局绿色生活与创新部总经理
General Manager of Automotive Platform and Application System (APAS) R&D Centre
General Manager of Green Living and Innovation Division, The Hong Kong Productivity Council (HKPC)

15:10-15:30
高安全智能驾驶测试验证技术实践
High Safety Intelligent Driving Validation Technology Practice
侯立升 / HOU Lisheng
吉利汽车研究院（宁波）有限公司智能驾驶中心功能开发部部长
Head of Function Development Department of Intelligent Driving Center, Geely Research Institute (Ningbo) Co., Ltd.

15:30-15:50
商用车自动驾驶测试验证技术及实践
Autonomous Driving Test Verification Technology and Practice for Commercial Vehicles
刘斌 / LIU Bin
上汽红岩汽车有限公司技术中心副主任，教授级高级工程师
Deputy Director of the Technical Center, Professorate Senior Engineer, SAIC HONGYAN Automotive Co., Ltd.

15:50-16:10
自动驾驶仿真-从 SIL HIL 到云仿真
ADAS/AD Simulation – From SIL HIL to the Cloud Based Simulation
张子恒 / ZHANG Ziheng
德斯拜思机电控制技术（上海）有限公司中国区自动驾驶业务负责人
Group Manager of ADAS/AD Business, dSPACE Mechatronic Control Technology (Shanghai) Co.,Ltd.

16:10-16:30
复杂场景下智能汽车安全测评技术及装备研究
Research on Safety Test and Evaluation Technology and Equipment for ICV in Complex Scenarios
张强 / ZHANG Qiang
中国汽车工程研究院股份有限公司信息智能事业部总经理，中汽院智能网联科技有限公司总经理，
智能汽车安全技术全国重点实验室副主任
Deputy General Manager of Information & Intelligence Division, CAERI; General Manager of CAERI Intelligent Connected Technology Co., Ltd.; Deputy Director of National Key Laboratory for Intelligent Vehicle Safety Technology

16:30-16:50
面向高级别自动驾驶仿真测试的高效高覆盖场景库生成方法
An Efficient and High-coverage Scenario Library Generation Method for High-level Automated Driving Simulation Testing
李鹏辉 / LI Penghui
北京交通大学交通运输学院副教授
Associate Professor at School of Traffic and Transporation, Beijing Jiaotong University

16:50-17:30
圆桌讨论 / Panel Discussion
自动驾驶商用化趋势下的测评技术展望
Panel Discussion: Outlook on Testing and Evaluation Technologies in the Trend of Commercialization of Autonomous Driving

智能网联汽车产业人才发展高端研讨会

09:30-12:00
6月19日

智汇楼·101会议室

日程	会议信息

会议主席

`09:30-09:35` **主持人开场**

公维洁
中国汽车工程学会副秘书长
中国智能网联汽车产业创新联盟秘书长

公维洁
中国汽车工程学会副秘书长、
中国智能网联汽车产业创新
联盟秘书长

席军强
北京理工大学机械与车辆学院
院长

`09:35-11:15` **行业分享**

09:35-09:55
行业趋势：汽车技术生态创新与人才发展
付于武
中国汽车工程学会名誉理事长、中国汽车人才研究会名誉理事长

主办单位
中国汽车工程学会
国家智能网联汽车创新中心

09:55-10:15
新汽车新人才：北汽人才战略与发展探究
陈新
北京汽车研究总院有限公司智能网联中心副主任

承办单位
中国智能网联汽车产业创新联盟
中国汽车工程学会汽车技术教育分会

10:15-10:35
人工智能浪潮下人才成长与企业创新之路
单羿
北京鉴智科技有限公司联合创始人、首席执行官

支持单位
中国人才研究会汽车人才专业委员会
全国智能网联汽车行业产教融合共同体

10:35-10:55
数字智能与绿色低碳驱动下吉大汽车专业人才培养探索与实践
高镇海
吉林大学汽车工程学院院长

会议简介
自动驾驶是技术密集型产业，人才是推动产业发展的关键要素和稀缺资源。智能网联汽车人才发展高端研讨会，结合北京智能网联汽车产业发展现状，邀请来自政产学研用机产业链各方的60余位代表，共同研讨智能网联汽车产业人才供需现状、存在问题、未来需求预测、人才培养等话题，推动人才资源共享与高水平人才发展交流，吸引并培育自动驾驶领域高水平人才队伍，以人才力量推动自动驾驶技术升级，提高行业各方对智能网联汽车的认可度与重视度。

10:55-11:15
谦光可掬，敬细远大：2024汽车行业洞察及组织人才策略
邢振凯
猎聘大数据研究院副院长

`11:15-12:00` **专题研讨：创新驱动智能网联汽车产业人才发展**

主持人
席军强
北京理工大学机械与车辆学院院长

公维洁
中国汽车工程学会副秘书长
中国智能网联汽车产业创新联盟秘书长

席军强
北京理工大学机械与车辆学院
院长

智链创投新未来，共筑软硬融合新生态

🕐 14:30-17:30
6月19日　　　📍 日新楼·多功能厅B

🕐 14:30-17:30
6月19日　　　📍 日新楼·多功能厅B

会议信息

日程

会议主席

许艳华
中国智能网联汽车产业创新联盟秘书长、北京德载厚投资管理中心(有限合伙)合伙人

主办单位
中国汽车工程学会

承办单位
中国智能网联汽车产业创新联盟

协办单位
北京德载厚投资管理中心(有限合伙)
北京国汽智联投资管理有限公司

会议简介
当前形势下，市场对于智能网联汽车产品与技术的商业化时间、长期回报等仍存在诸多疑虑，投资疲软，需协同产业各方凝聚共识，合力破局。
结合智能网联汽车产业整体发展现状，2024智能网联汽车产业投资高峰论坛将以 "智链创投新未来，共筑软硬融合新生态"为主题，邀请权威产业投资机构、高校成果转化中心等资本投融相关方，共同探讨当前智能网联汽车产业困境、发展机遇、投资策略，提振各方对智能网联汽车的投资信心。

14:30-14:35　主持人开场

许艳华
中国智能网联汽车产业创新联盟秘书长
北京德载厚投资管理中心(有限合伙)合伙人

14:35-16:10　行业分享

14:35-14:50
汽车产业重大变革与投资展望
董扬
中国智能网联汽车产业创新联盟理事长
北京德载厚投资管理中心(有限合伙)董事长

14:50-15:10
自动驾驶的长期资本布局与战略思考
董寅康
北京国汽智联投资管理有限公司总经理

15:10-15:30
科技驱动下的产业融合与投资机遇
刘培龙
北京汽车集团产业投资有限公司总经理

15:30-15:50
小米产业投资赋能人车家全生态
孙昌旭
小米产投总经理、管理合伙人

15:50-16:10
高校科技成果转化规律探索及投资实践
王学辉
水木清华校友种子基金管理合伙人

16:10-17:30　圆桌对话：新形势下的智能网联汽车生态发展与投资策略

圆桌嘉宾：

李骜
小米产投执行董事

贺雄松
上海辰韬资产管理有限公司执行总经理

张艳杰
北京经纬恒润科技股份有限公司
战略投资总经理

袁冰冰
北京地平线信息技术有限公司
副总裁、投资部总经理

刘水
百度风投董事总经理

陈蜀杰
芯驰科技副总裁

🕐 15:30-18:00
6月18日/ Jun.18th

📍 日新楼 · 第一会议室
Rixin Building · Conference Room 1

会议信息 / Information

主持嘉宾 / Moderator

徐月云 / XU Yueyun
国家智能网联汽车创新中心
智能事业部总经理
General Manager of Intelligent
Department, National Innovation
Center of Intelligent and
Connected Vehicles

日程 / Agenda

15:30-15:55
汽车自动驾驶一体化仿真测试系统
Integrated Simulation Platform for Autonomous Driving

丁娟 / DING Juan
浙江天行健智能科技有限公司(PanoSim)品牌部高级总监
Senior Director of Brand Department, PanoSim Technology Co.,Ltd.

15:55-16:20
《中国智能网联汽车自动驾驶仿真测试白皮书》（2023）发布
Release of "White Paper on Autonomous Driving Simulation Test of China
Intelligent and Connected Vehicles" (2023)

张旭瑞 / ZHANG Xurui
国汽(北京)智能网联汽车研究院有限公司
智能事业部仿真测试部副部长
Intelligent Technology Business Group · Department for Simulation Test, Director,
China Intelligent and Connected Vehicles (Beijing) Research Institute Co. Ltd.

16:20-16:45
红外热成像技术在智能驾驶领域的应用和展望
Application and Prospect of Infrared Thermography Technology in the
Field of Intelligent Driving

邓行 / DENG Xing
武汉轩辕智驾科技有限公司产品总监
Product Director, Wuhan Xuanyuan Idrive Technology Co., Ltd.

16:45-17:10
基于抽象场景泛化及安全驱动的大规模仿真测试验证(V&V)
Safety-Driven Large-scale Simulation V&V Based on Abstract Scenario Generalization

吴兆勇 / WU Zhaoyong
弗钛立驶智能科技(上海)有限公司应用工程部经理
Application Engineer, Foretellix Ltd.

17:10 –17:35
Greptime 车云一体解决方案助力智能汽车边缘计算
Automotive Computing Empowered by Greptime Integrated Vehicle-Cloud Solution

罗傅聪 / LUO Fucong
格睿科技首席研发工程师
Software Develop Enginner, Greptime Inc.

17:35 – 18:00
智能网联汽车检测能力的探索
Exploration of the Detection Capability of Intelligent Networked Vehicles

马岩 / MA Yan
中交一公局第五工程有限公司项目技术经理
Technical Project Manager, China Communications First Highway Engineering
Fifth Engineering Co., Ltd.

CHINA SAE
中国汽车工程学会主要会议计划
China SAE Events Plan

CIEV
2024国际新能源智能网联汽车创新生态大会
2024 International New Energy and Intelligent Connected Vehicle Innovation Ecology Congress
www.ciev.org.cn/home
🕐 2024.5.22-24
📍 浙江·瑞安
Zhejiang·Ruian

FCVC
2024国际氢能与燃料电池汽车大会暨展览会
International Hydrogen Fuel Cell Vehicle Congress & Exhibition 2024
www.fcvc.org.cn/CN/Home
🕐 2024.6.4-6
📍 上海·嘉定
Shanghai·Jiading

(C)ICV
第十一届国际智能网联汽车技术年会
The 11th International Congress of Intelligent and Connected Vehicles Technology
www.cicv.org.cn
🕐 2024.6.18-20
📍 北京·亦庄
Beijing·E-Town

TMC
第十六届汽车动力系统技术年会
The 16th Automotive Powertrain Technology Congress
www.transmission-china.org
🕐 2024.7.4-5
📍 山东·青岛
Shandong·Qingdao

ATCD
2024汽车行业人才培养院长论坛
Forum on Telent Cultivation and Development of the Auto Industry 2024
🕐 2024.8.23-25
📍 陕西·西安
Shaanxi·Xi'an

ICHASSIS WSCE 2024
2024国际电动汽车智能底盘大会暨世界智能电动汽车技术博览会
2024 International Intelligent Electrified Chassis Systems Conference
World Smart eCartec Expo
www.corpit.com.cn/WSCE/CN/MeetingIntro
🕐 2024.8.27-29
📍 深圳
ShenZhen

CVRC
CSAE 2024车路云一体化发展论坛
CSAE Congress of Vehicle-Road-Cloud Integration Development 2024
🕐 2024.9.19-20
📍 上海
Shanghai

FISITA Intelligent Safety Conference China
第六届世界智能安全大会
FISITA Intelligent Safety Conference China 2024
www.fisita.com/isc
🕐 2024.9.20-21
📍 上海
Shanghai

WNEVC
2024世界新能源汽车大会
2024 World New Energy Vehicles Congress
www.wnevc.org.cn
🕐 2024.9.26-28
📍 海南·海口
Hainan·Haikou

ALCE
2024(第十七届)国际汽车轻量化大会暨展览会
2024 International Automotive Lightweight Conference & Exhibition
🕐 2024.10.9-11
📍 江苏·扬州
Jiangsu·Yangzhou

ICIC
2024国际汽车智能座舱大会
International Conference of Intelligent Cockpit 2024
sae.corpit.com.cn/ICICMeeting
🕐 2024.10
📍 江苏·苏州
Jiangsu·Suzhou

SAECCE
第三十一届中国汽车工程学会年会暨展览会
The 31st China-SAE Congress & Exhibition
www.saecce.org.cn
🕐 2024.11.11-14
📍 重庆
Chongqing

ADM2024
2024国际汽车数字化与智能制造大会
International Conference on Automotive Digitization & Intelligent Manufacturing
🕐 待定
📍 待定

NAVEC 全国汽车职业教育年会
2024全国汽车职业教育年会
National Automotive Vocational Education Conference 2024
🕐 待定
📍 待定

YRAT 汽车产业科技创新黄河论坛
2025汽车产业科技创新黄河论坛
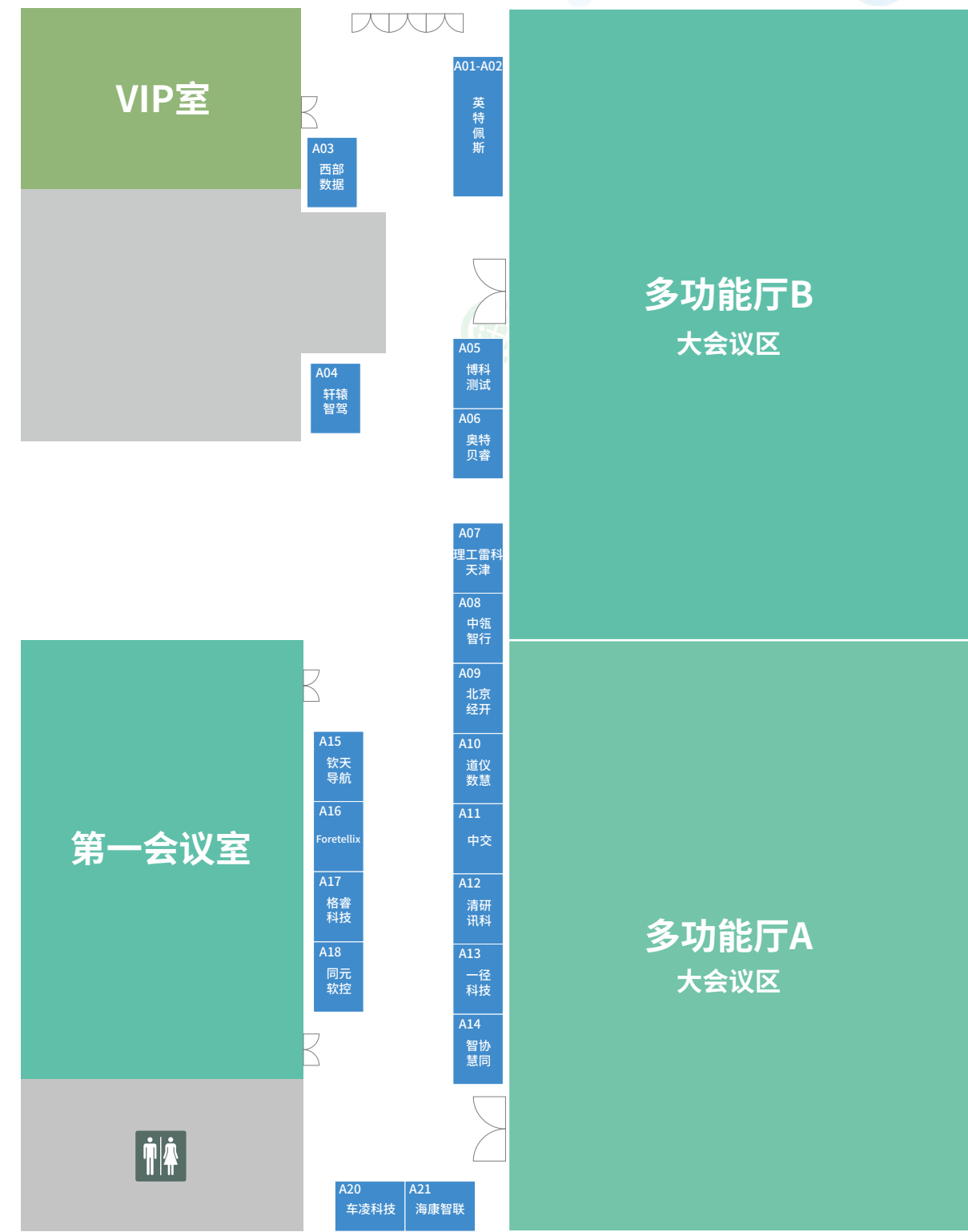Yellow River Forum on Automotive Industry Technology Innovation 2025
🕐 2025
📍 河南·焦作
Henan·Jiaozuo

IANMC
2025年国际汽车新材料大会
2025 International Conference on New Material in Automotive Industry
🕐 2025
📍 安徽·芜湖
Anhui·Wuhu

www.sae-china.org

展位分布图
Booth map

VIP室

第一会议室

A03 西部数据

A04 轩辕智驾

A15 钦天导航

A16 Foretellix

A17 格睿科技

A18 同元软控

A20 车凌科技

A21 海康智联

B01 云控智行

B02 蘑菇车联

B03 小马智行

A01-A02 英特佩斯

A05 博科测试

A06 奥特贝睿

A07 理工雷科天津

A08 中瓴智行

A09 北京经开

A10 道仪数慧

A11 中交

A12 清研讯科

A13 一径科技

A14 智协慧同

多功能厅B
大会议区

多功能厅A
大会议区

展位号 Booth No	参展商	Exhibitor
A01-02	英特佩斯控制系统有限公司	Intrepid Control Systems
A03	西部数据公司	Western Digital
A04	武汉轩辕智驾科技有限公司	Wuhan Xuanyuan Idrive Technology CO., Ltd.
A05	北京博科测试系统股份有限公司	BBK Test Systems Co., Ltd.
A06	北京奥特贝睿科技有限公司	AutoBrain
A07	理工雷科电子（天津）有限公司	Racobit Electronics (Tianjin) Co., Ltd.
A08	中瓴智行（成都）科技有限公司	Zlingsmart Technology Co., Ltd.
A09	北京经开投资开发股份有限公司	Beijing Development Area Co.,Ltd.
A10	北京道仪数慧科技有限公司	Beijing Daoyi shuhui Technology Co., Ltd.
A11	中交一公局第五工程有限公司	China Communications First Highway Engineering Fifth Engineering Co., Ltd.
A12	清研讯科（北京）科技有限公司	Tsingoal (Beijing) Technology Co.,Ltd.
A13	北京一径科技有限公司	ZVISION Technologies Co., Ltd.
A14	智协慧同（北京）科技有限公司	Smart Software for Cars Technologies Co., Ltd.
A15	上海钦天导航技术有限公司	QeeTek Technology Co.,Ltd.
A16	Foretellix Ltd.	Foretellix Ltd.
A17	格睿科技	Greptime
A18	苏州同元软控信息技术有限公司	Suzhou Tongyuan Software & Control Technology Co., Ltd.
A20	杭州车凌网络科技有限公司	CARLINX MULTI Tech Co., Ltd.
A21	浙江海康智联科技有限公司	ZHEJIANG HIKAILINK TECHNOLOGY CO.,LTD.
B01	云控智行科技有限公司	Tsingcloud Co., Ltd.
B02	蘑菇车联信息科技有限公司	Mogo.ai
B03	北京小马智行科技有限公司	Pony.ai

展位号 Booth：B01
云控智行科技有限公司
Tsingcloud Co., Ltd.

Tsingcloud 云控智行

云控基础平台 Cloud Control Platform

基于车路云一体化系统技术架构，云控智行自主研发云控基础平台，打破信息化平台建设过程中传统的烟囱建设模式，实现车、路、基础平台、应用需求间的分层解耦，交通数据与基础设施的跨域共用，具有数据支撑、共性服务、开放共享等核心能力，有效提升智能网联车辆行驶的安全、效率、节能等综合性能，全面赋能智能驾驶和智能交通。

智能路侧产品 Intelligent Roadside Product

云控智行推出智能路侧产品方案，搭载自主研发智能路侧操作系统OS，全面支持车路云一体化系统技术架构，通过雷视一体机、MEC、摄像头、毫米波雷达等硬件设备，将感知、计算、通信等核心功能高度集成，面向网联自动驾驶提供协同感知服务，提升智能网联汽车安全性；面向智能交通提供交通事件感知能力，支撑实现信控优化，提升交通运行效率。

展位号 Booth：B02
蘑菇车联信息科技有限公司
Mogo.ai

蘑菇车联

蘑菇自动驾驶小巴 Mogo Robobus

具备L4级自动驾驶能力，两款车型MOGOBUS M1，MOGOBUS B2均标配V2X功能，搭载行业领先的车路协同技术可进行路径规划、自主启停、路口通行与冲突处理等，可应对公开道路、封闭园区、学校、景区等多种场景，实现全天候安全行驶。科技感车身、宽敞车内空间，人机交互大屏，可多满足公共交通、商务接待、环游接驳等多样化的短途出行需求。

蘑菇AI数字道路基站 Mogo AI Station

全球首个支持L4级自动驾驶的数字基站，集通信、计算、算法、感知于一体，多项核心算法世界排名第一。基于蘑菇AI数字道路基站，公司提供全域覆盖方案，拥有业界最小全链路延迟，可在城市开放道路、公路、景区园区等场景规模化部署，快速实现实时数字交通网络。目前，产品已在北京、上海、深圳、天津、四川、辽宁、湖南、云南、山东、湖北等全面落地。

智慧交通AI云平台 Mogo AI Cloud

城市级一体化AI云系统，包含智慧交通云平台、云控平台、车路云网络应用平台等多样化数据服务平台，融合数字道路与自动驾驶规模车队海量数据，可为智能网联车辆和自动驾驶车辆服务，为城市管理者提供实时数据平台。

展位号 Booth：B03
北京小马智行科技有限公司
Pony.ai

小马智行·PONY.ai

小马智行第七代丰田铂智4X自动驾驶概念车
Pony.ai's 7th generation bZ4X autonomous driving concept car

该车型为小马智行、丰田中国、广汽丰田三方合作研发自动驾驶概念车，其采用小马智行第七代自动驾驶系统方案、丰田L4车辆平台及冗余化设计，并由广汽丰田第五生产线生产，为全无人驾驶城市级落地而准备。

该车型选用固态激光雷达、摄像头、毫米波雷达等高性价比的车规级传感器，并通过拆分前后模组的设计，让造型更轻薄美观，并重点提升用户交互等体验。

2024北京车展，三方宣布第一期将向中国市场投放千台规模铂智4X自动驾驶出租车，通过小马智行同名打车软件平台，在国内一线城市开展全无人驾驶出行服务。

This model is an autonomous driving concept car jointly developed by Pony.ai, Toyota China and GAC Toyota. It is equipped with Pony's seventh generation autonomous driving system, Toyota L4 vehicle platform and redundancy design, and is produced by GAC Toyota's fifth production line to prepare for city-level driverless Robotaxi deployment.

This car uses cost-effective automotive-grade sensors such as solid-state LiDARs, cameras, and radars. By splitting the front and rear modules, the design makes the shape more delicate, and focuses on improving user interaction experience etc.

At the 2024 Beijing Auto Show, Pony.ai, Toyota China and GAC Toyota announced that a fleet of a thousand bZ4X robotaxis will be deployed in the first phase to provide fully driverless autonomous mobility services in Tier-1 cities across China.

展位号 Booth：A01-02
英特佩斯控制系统有限公司
Intrepid Control Systems

INTREPID CONTROL SYSTEMS

远程数据采集系统 - Wivi
Remote Data Logging System - Wivi

技术亮点-硬件设计紧凑，系统总重不超过1.5kg。支持手动触发、录音录像、远程激活/关闭、重新编程采集策略、GPS定位，支持企业搭建私有云。

Technical Highlights - The hardware design is compact and the total system weight is less than 1.5kg. Supports manual trigger, audio and video logging, remote activation/deactivation, reprogramming collection strategy, GPS positioning, and supports customers to build private clouds.

多用途总线测试软件 - Vehicle Spy 3
Multi-purpose bus test software - Vehicle Spy 3

技术亮点-功能高度集成，支持CAN FD、LIN、FlexRay、Automotive Ethernet等总线标准，支持UDS，CCP/XCP，DoIP，C Code等功能，提供一站式总线测试解决方案。

Technical Highlights - Highly integrated functions, supporting CAN FD, LIN, FlexRay, Automotive Ethernet standards, supporting UDS, CCP/XCP, DoIP, C Code and other functions, providing a one-stop bus testing solution.

车载以太网测试仪- RAD Series
Automotive Ethernet Interface - RAD Series

技术亮点-全面支持各类车载以太网标准，包括100/1000BASE-T1、10BASE-T1S、100/1000BASE-T(x)、2.5/5/10GBASE-T，支持Active Tap链路监听、节点仿真、物理层转换等功能。

Technical Highlights - Comprehensive support for various automotive Ethernet standards, including 100/1000BASE-T1, 10BASE-T1S, 100/1000BASE-T(x), 2.5/5/10GBASE-T, and support Active Tap and AE ECU simulation, media converter and other functions.

展位号 Booth：A03

西部数据公司
Western Digital

UFS 嵌入式闪存 iNAND® AT EU552 UFS 3.1
嵌入式闪存驱动器

iNAND AT EU552 UFS嵌入式存储解决方案专为满足驾驶舱解决方案以及自动驾驶的恶劣环境与严苛要求而设计。

汽车电子系统架构的变化推动了ADAS、高性能中央计算和数据丰富的3D地图等应用对更高容量和性能的数据存储设备的需求。为管理海量数据，汽车存储解决方案还需要能够为各种环境和温度条件提供支持，同时要与符合行业标准的接口完全兼容。

Western Digital iNAND AT EU552 EFD的顺序写入速度高达 1200MB/S，可提供符合UFS 3.1 JEDEC的写入增强器（Write Booster）存储技术。AT EU552采用112 L 3D NAND 技术，专为满足全新的汽车E/E架构要求而设计。

The iNAND AT EU552 UFS embedded storage solution is designed for harsh environments and demanding requirements for cockpit solution and autonomous drive.

Changes in automotive electronic system architectures are driving the demand for higher capacities and higher performance data storage devices in applications like ADAS, high-performance central computing and data rich 3D maps. To manage the vast amount of data, automotive storage solutions also need to be capable of supporting a wide range of environments and temperatures, while being fully compatible with industry-standard interfaces.

Western Digital iNAND AT EU552 EFD, featuring Sequential Write Speeds up to 1200MB/s, offers UFS 3.1 JEDEC-compliant Write Booster Storage Technology With 112L 3D NAND technology, the AT EU552 is designed to meet new automotive E/E architecture requirement.

展位号 Booth：A04

武汉轩辕智驾科技有限公司
Wuhan Xuanyuan Idrive Technology CO., Ltd.

N-Driver U302

产品亮点：
1、精准识别：行人/车辆/动物精确识别
2、体积更小：能耗更低，成本更优
3、智能算法：SDK红外感知算法，部署更灵活
所处开发阶段：量产
应用领域：汽车前装
客户：吉利

Product Highlights:
① Accurate identification: accurate identification of pedestrians/vehicles/animals
② Smaller size: lower energy consumption and better cost
③ Intelligent algorithm: SDK infrared perception algorithm, more flexible deployment
Development stage: mass production
The field of application: automobile front installation
Customer: Geely

N-Driver U1001

产品亮点：
1、图像质量高：百万超高分辨率，探测距离超500米
2、性能标准高：适用于自动驾驶等领域多传感器融合应用

Product Highlights:
① High image quality: million ultra-high resolution, detection distance of more than 500 meters
② High performance standards: suitable for multi-sensor fusion applications in autonomous driving and other fields

N-Driver P302B

产品亮点：
1、智能算法：精准识别行人/车辆，智能碰撞预警
2、清晰度高：画面更清晰，作用距离更远
3、安装灵活：接口丰富，灵活适配，多形态输出，易于二次开发
所处开发阶段：量产
应用领域：汽车前装
客户：东风猛士

Product Highlights:
① Intelligent algorithm: accurate identification of pedestrians/vehicles, intelligent collision warning
②High definition: the picture is clearer and the distance is farther
③ Flexible installation: rich interfaces, flexible adaptation, multi-form output, easy secondary development
Development stage: mass production
The field of application: automobile front installation
Customer: Dongfeng Mengshi

展位号 Booth：A05

北京博科测试系统股份有限公司
BBK Test Systems Co., Ltd.

ViL整车在环测试系统 Vehicle-in-the-Loop (ViL) test system

自动驾驶整车在环（ViL）测试系统将真实被测车辆、底盘测功机或轴耦合测功机和仿真场景相结合，搭建一个能真实模拟实际道路测试环境的实验室测试系统。系统支持各种测试法规以及自定义测试场景的搭建，同时允许导入第三方测试场景文件，可用于各种级别自动驾驶功能的开发、测试及验证。

The Vehicle-in-the-Loop (ViL) test system combines the real vehicle under test, chassis dynamometer or axle-coupled dynamometer, and simulation scenarios to build a laboratory test system that can realistically simulate the actual road test environment. The system is applicable to various test regulation and the construction of customized test scenarios, and also allows the import of third-party test scenario files, which can be used for the development, testing and validation of various levels of automated driving functions.

ADAS车辆总装下线标定设备 ADAS test equipment

驾驶辅助系统标定设备用以标定车辆的各项驾驶辅助系统模块，保证其准确性和功能性。
标定的驾驶辅助功能包括：

- AEB自动刹车系统
- AFL自适应大灯
- ACC自适应巡航
- LDW/LKA车道偏离警告/车道保持系统
- NV夜视

- HUD抬头显示
- LCA / Blind spot 变道辅助/盲点监测
- Top view / 360° camera 泊车辅助/环视影像/全车影像
- Lidar 激光雷达

ADAS test system is used to calibrate the vehicle's driver assistance system modules to ensure their accuracy and functionality. The calibrated ADAS functions include:

- AEB
- AFL
- ACC
- LDW/LKA
- NV

- HUD
- LCA / Blind spot
- Top view / 360° camera
- Lidar
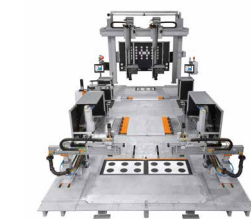
展位号 Booth：A06

北京奥特贝睿科技有限公司
AutoBrain

AutoBrain：创新成就客户，打造自主研发的汽车大脑
奥特贝睿成立于2017年，是一家是由中美顶尖智能驾驶团队共同创建，深创投、中关村发展、磐谷投资数亿元的智能驾驶科技企业，专注于软硬件一体的"智驾大脑"产品开发，致力于提供安全、舒适的智能出行的量产产品。我司相继从特斯拉，微盟，谷歌AI，UC Berkeley，Harvard University，University of Pennsylvania等顶级自动驾驶公司及国际院校引入了一批智能驾驶专业人才。
AutoBrain在北京和天津均设有研发机构，在硅谷设有技术支持中心。

奥特贝睿科技有限公司作为国内一流的汽车智能驾驶科技企业，也是国内最早实现自动驾驶量产的企业。致力于建立可落地量产的通用性自动驾驶平台。该产品基于全球首发的AI芯片，结合8百万像素相机等多传感器深度融合，提供360度全方位感知，全栈自研重磅推出单芯片单域控行泊一体智驾产品-Infi-Pilot，已完成多个项目定点，2023年第四季度与吉利合作的搭载Infi-Pilot行泊域一体智驾产品矩阵中高阶版本域控的车款量产上市。

Founded in 2017 by US and China based autonomous driving veterans, AutoBrain is China's leading automated and autonomous driving company, backed by SCGC, Z-Park and Grains Valley with several hundreds of million investment.
AutoBrain focuses on the development of autonomous driving (AD) products integrating software and hardware, dedicated to providing safe and comfortable intelligent driving experience.
AutoBrain has office in Beijing,Tianjin, Germany and R&D center in Silicon Valley.

AutoBrain is one of the top domestic automotive intelligent driving technology companies, and is also one of the earliest companies in China to realize the mass production of autonomous driving. It is committed to establishing a general-purpose automatic driving platform that can be put into production. The product is based on the world's first AI chip and combines 8 million pixel cameras and other multi-sensor deep fusion to provide 360-degree all-round perception. It has launched a single-chip single-domain intelligent driving product - Infi-Pilot, which has completed multiple project deployment, and the high-end version of the domain control module equipped with Infi-Pilot were mass-produced and launched in the fourth quarter of 2023 with Geely's cooperation.

让所有车都装上「AutoBrain」
Better AI, Better Future

展位号 Booth：A07

理工雷科电子(天津)有限公司
Racobit Electronics (Tianjin) Co., Ltd.

理工雷科 RACO

VRTE-III 毫米波雷达仿真测试仪
VRTE-III Millimeter Wave Radar Simulation Tester

能够模拟多个角度目标回波信号,支持24GHz、60GHz、77GHz、92GHz等多种工作频段,可广泛应用于雷达研发、硬件在环、整车下线标定、整车ADAS场景测试等领域。

Capable of simulating echo signals from multiple angles, supporting 24G, 60G, and 77G working frequency bands. Widely applied in radar R&D, hardware HIL, vehicle end-of-line calibration, and full vehicle ADAS scenario testing, noted for its adaptability, high precision, and user convenience.

VRTE-Pb毫米波雷达仿真测试仪
VRTE-Pb Millimeter Wave Radar Simulation Tester

专为快速测试应用开发,支持24GHz、60GHz、77GHz工作频段,模拟目标回波信号的同时还可以进行频谱分析,天线测试等,主要应用于毫米波雷达EOL检测、标定等领域。

Specially designed for rapid testing applications, supporting 24GHz, 60GHz, and 77GHz frequency bands, simulates target echo signals while also enabling spectrum analysis and antenna testing, mainly applied in millimeter wave radar EOL testing and calibration.

RGS9000 GNSS 信号模拟器
RGS9000 GNSS Signal Simulator

新一代全球卫星导航系统多频点信号模拟器,可实现 BDS、GPS、GLONASS、 Galileo 、QZSS 、IRNSS 和 SBAS 等导航系统全频点信号仿真。可对卫星导航终端进行全面的测试评估。

A new-generation multi-frequency point signal simulator for Global Navigation Satellite Systems, capable of simulating full-band signals for BDS, GPS, GLONASS, Galileo, QZSS, IRNSS, and SBAS. Comprehensive testing and evaluation of satellite navigation terminals are possible.

展位号 Booth：A08

中瓴智行(成都)科技有限公司
Zlingsmart Technology Co., Ltd.

中瓴智行 Zlingsmart

睿钛嵌入式虚拟化操作系统RAITE Hypervisor

睿钛嵌入式虚拟化操作系统(RAITE Hypervisor, RHOS)是中瓴智行自主研发的一款高性能虚拟化操作系统,已通过了国际功能安全、信息安全标准测试。该产品凭借更优性价比、更强安全、更加稳定、全栈服务、更快工程化的优势,已在国内外多家车企、多款车型上量产。

RAITE Hypervisor (RHOS) is a high -performance virtualized operating system independently developed by Zlingsmart, which has passed international functional security and information security standard tests. With the advantages of better cost -effectiveness, stronger safety, more stable, full stack services, and faster engineering, it has mass production in many car companies and models at home and abroad.

联发科MT8675+中瓴智行RAITE Hypervisor融合型智能座舱方案

硬件基于联发科MT8675芯片平台,结合中瓴智行虚拟化操作系统RAITE Hypervisor,支持一芯多屏、多屏交互、分区隔离、str快启动、ADAS辅助、TBOX等功能。

The hardware is based on MediaTek MT8675 chip platform, combined with the RAITE Hypervisor of the Zlingsmart Virtualization operating system, supports one -core multi -screen, multi -screen interaction, partition isolation, STR fast startup, ADAS assistance, TBOX and other functions.

RAITE Linux	RAITE RTOS	Android	Linux	健康管理安全监控黑匣子

RAITE Hypervisor(RHOS)				
VMM	IPC	共享内存	自适应分区	快速启动
共享串口	共享存储	共享音频	共享网络	...

高性能硬件平台

MTK MT8675+ 中瓴智行 RAITE Hypervisor

展位号 Booth：A09

北京经开投资开发股份有限公司
Beijing Development Area Co.,Ltd.

北京经开

北京经开投资开发股份有限公司成立于2000年9月,是北京亦庄控股集团旗下产业承载和企业成长的重要平台,业务涉及开发、运营、招商、金融、互联网、能源等领域,打造了集"科研、总部、办公、综合服务"等一站式企业发展、共享空间和服务平台,目前成功打造14个品牌鲜明特色园区,吸引3000余家高端企业入驻,已成为经开区产业园建设与经济繁荣发展的重要参与者。其中北京经开·壹中心,建面约200-3.2万㎡独栋办公/多面积组合办公,园区配套约200-600㎡临街旺铺;北京经开·壹广场,千平独立办公空间,以及约1100㎡起临街商铺;中关村(亦庄)国际机器人产业园,建面约3000-7000㎡企业总部独栋,均处于现房招商中。

北京经开·壹中心位于北京经开区商务核心门户位置,紧邻地铁亦庄线经海路站,建面约200-3.2万㎡独栋办公/多面积组合办公,园区配套约200-600㎡临街旺铺,均处于现房招商中,全方位助力入驻企业长远发展。

北京经开·壹广场位于北京经开区科创街与经海六路交汇处,紧邻有轨电车T1线,千平独立办公空间,约1100㎡起临街商铺,满足企业办公、商旅人士,企业员工等需求,均在现房招商中。

中关村(亦庄)国际机器人产业园,国际一流的机器人产业基地,位于亦庄新城核心枢纽,总建筑面积25万㎡,由54栋企业总部组成,建面约3000-7000㎡企业总部独栋,现房招商中,满足小微企业孵化、科技成长、独角兽企业不同阶段的办公需求。

展位号 Booth：A10

北京道仪数慧科技有限公司
Beijing Daoyi shuhui Technology Co., Ltd.

道仪数慧

北京道仪数慧科技有限公司,成立于2021年7月,由世界冠军级AI算法开发团队、国内首批致力于LBS研发的领军团队强强联合组建而成,核心成员具备超15年的团队合作基础。公司以视觉AI技术、行业大模型应用为核心驱动,打造先进的空间数字化重建产品和解决方案,以标准化众包为核心运营模式,快速创建全球化全量数据AI地图服务,以创新型移动感知空间AI服务体系,实现AI巡检、AI停车场服务、AI室内导航等一系列产品应用,为城市管理、交通、物流、出行、O2O、V2X等众多产业领域全球客户提供精准高效的数据支持与增值服务,基于视觉AI、大模型应用驱动产业数字化变革,助力客户价值实现。

Beijing Daoyi shuhui Technology Co., Ltd, which was established in July 2021, was formed by a world-champion-class AI algorithm development team and one of the first leading teams in China dedicated to LBS research and development. The core team members have over 15 years of collaborative experience. The company is driven by visual AI technology and industry-scale model applications to create advanced products and solutions for spatial digital reconstruction. With standardized crowdsourcing as its core operating model, the company rapidly creates global full-data AI map services. It offers an innovative mobile perception spatial AI service system, enabling products in AI inspection, AI parking lot services, AI indoor navigation, and other applications. The company provides precise and efficient data support and value-added services to global customers in various industries such as urban management, transportation, logistics, travel, O2O, V2X, aiming to drive digital transformation in industries based on visual AI and large-scale model applications to help clients realize value.

展位号 Booth：A11
中交一公局第五工程有限公司
China Communications First Highway Engineering Fifth Engineering Co., Ltd.

数字孪生，可视化管理：
中交上饶试验场通过数字孪生技术，搭建了一个实时可视化的三维底座管理平台，实现测试场日常测试和管理工作的标准化、可视化、动态化和精细化，提升了测试场运营效率，打造了一个"安全、保密、智能、生态"的测试场。

主流设备，完成ADSA测试：
采用国际主流4A、ABD设备，满足国标、C-NCAP、i-VISTA、ISO、Euro-NCAP等相关测试需求

规模宏大，配套设施完善：
中交上饶试验场占地面积6165亩，含高速环道、智能网联测试区等15条测试道路、118种特种路及配套的车间，加油站，配重区，实验楼等24栋单体建筑，为各大汽车制造商、零部件供应商和相关产业提供优质、便捷、先进的服务。
250 words in Chinese prefered, for the content of technical highlights, parameter, target client and situation of application

展位号 Booth：A12
清研讯科（北京）科技有限公司
Tsingoal (Beijing) Technology Co.,Ltd.

国产新型室内外无线定位系统，通过采用清研讯科自主研发的 LocalSense® 无线脉冲技术，通过精确测量无线脉冲在空间中的传播时间，测量微标签与微基站之间的绝对距离，支持大容量标签实时位置解算，实现10cm级定位精度。
可以实现UWB场端导航，在地下停车和自动驾驶领域可以用来与车端UWB配合。
定位微基站（或称定位阅读器），布设于被定位空间内，相当于GPS中的"定位卫星"，是定位系统的重要组成。LocalSense®定位系统的微基站有多种品类，适合于室内外多种环境。

The domestically produced new indoor and outdoor wireless positioning system utilizes the self-developed LocalSense® wireless pulse technology by Qingyan Xunk Technology. By precisely measuring the propagation time of the wireless pulse in space, it measures the absolute distance between the micro-tags and micro-base stations, supporting real-time location calculation for a large number of tags, achieving positioning accuracy at the level of 10 cm.
It can achieve UWB field-side navigation, which can be used in conjunction with the vehicle-side UWB in the fields of underground parking and autonomous driving.
The positioning micro-base station (also known as the positioning reader) is deployed within the space to be positioned, equivalent to the "positioning satellite" in GPS, and is an important part of the positioning system. The LocalSense® positioning system's micro-base stations come in various types, suitable for various indoor and outdoor environments.

展位号 Booth：A13
北京一径科技有限公司
ZVISION Technologies Co., Ltd.

ZVISION EZ6是带头喊出"LiDAR平权，进入千元时代"的产品，是以"满足主流应用的最高性价比"为市场核心需求和根本出发点，通过全新一代的SPAD激光雷达架构，保证产品满足高阶智驾所需性能的同时，实现了LiDAR成本的实质降低。同时，ZVISION EZ6领先的192线垂直扫描线束、易集成的小体积外形及较强的脏污抵御能力，让其在性能和成本上取得了非常完美的平衡，是一款好用的激光雷达。

ZVISION EZ5延续了一径EZ系列产品高集成、数字化、平台化的设计理念，是一款兼具极致性价比与卓越性能的SPAD激光雷达产品。EZ5的亮点包括其25mm的纤薄外形、120°x20°的宽广视场、220m的远距离测距、192线的最高分辨率点云成像、0.1°x0.1°的精细分辨率以及20Hz的快速响应能力。这些特性不仅提升整车造型，更确保了行车的安全性。此外，EZ5还配备了EZ-Key环境适应性套件，专门针对复杂场景下的点云适应性问题，以提升感知能力。

展位号 Booth：A14
智协慧同（北京）科技有限公司
Smart Software for Cars Technologies Co., Ltd.

云端：算法开发工具+云端计算引擎与管理平台
- 图形化低代码开发工具，拖拉拽即可建模（Corner Case，智能座舱场景Trigger，智能功能，数据采集规则等）
- 高效处理大规模异构异源数据
- 几百种汽车行业及通用算子
- 数据管理平台支持云端轻量化部署（SDK）
- 支持PB级海量信号数据并发
- 数据文件在云端采用压缩态存储，随用随解，无需ETL
- 支持业务人员灵活查询和调用数据，存算分离

车端：边缘计算引擎+边缘时序数据库
- 10000+ 毫秒级信号及实时流计算/流压缩，实现100~300倍无损压缩
- 低于10%CPU占用率（具体根据信号数、采集频率和芯片性能来定）
- CPU1核800Mhz、内存32MB 即可部署
- 算法跨车云一键部署，在车端秒级运行，无需编译，无需OTA
- 支持按需、按事件、按规则实现灵活的数据采集
- 支持SOME/IP、CAN 等多通信协议同时接入
- Corner Case 灵活触发采集策略（对智驾和智舱结构化数据和非结构化数据的采集）
- 支持智能座舱AI推荐引擎和场景引擎的实现
- 支持Jpeg、H.265、LiDAR 等多格式数据接入和车端压缩

结构化和非结构化数据融合采集
智协慧同EXCEEDDATA车云数据底座通过车云一体计算架构，打造智能汽车数据引擎，实现灵活的量产车辆高精度、高质量数据采集，构建完整数据闭环。
解决方案特点：
1、业内首个为汽车定制开发的时序数据库，实现对数据的100~300倍无损压缩、支持一定时段的数据反查；
2、图形化、低代码算法开发工具，零基础工程师1-2周即可掌握；
3、车云同构框架，云端算法一键部署到车端边缘计算引擎，秒级运行；
4、支持ms级、万+信号、可自定义频率、维度、触发条件的实时数据采集；
5、对自动驾驶数据的corner case场景定义，多种模式的灵活采集；
6、数据综合成本下降85%。

展位号 Booth : A15

上海钦天导航技术有限公司
QeeTek Technology Co.,Ltd.

QinNav 钦天导航

K802 GNSS Module

K802 GNSS Module车规级全系统多频点高精度RTK定位模块,主芯片符合AEC-Q100,生产符合IATF16949;支持全系统多频点信号跟踪,支持BDS-3、BDS-2、GPS、GLONASS、Galileo、QZSS等系统;内置IMU惯导器件,实现组合导航,在天桥、高架、隧道等遮蔽环境下,能够持续输出实时位置和姿态信息;适用于智能驾驶等应用。

The K802 is a multi-frequency GNSS module specifically designed for automotive industry. With built-in IMU module, K802 can continuously provide accurate positioning where GNSS signal is lost. Its compact surface-mounted design enables easy to be integrated in any space restricted devices.

Quantum IIIA

Quantum IIIA是自主研发的全系统全频点高精度GNSS基带SoC芯片,采用成熟的低功耗芯片工艺,可并行处理全球范围内所有卫星导航系统的民用GNSS现代化及未来信号,共拥有965个通道,可应用于多种复杂的高精度定位场景中。

The Quantum IIIA is a self-developed full-system full-frequency high-precision GNSS baseband SoC chip. It adopts a mature low-power chip process and can simultaneously process the civil GNSS modernization and future signals of all satellite navigation systems worldwide in parallel. It has a total of 965 channels and can be applied in a variety of complex high-precision positioning scenarios.

M1车规级组合导航接收机

M1 高精度组合导航接收机采用车规级设计,基于公司自研的高精度基带射频一体化 SoC 芯片,支持GNSS 全系统全频点信号接收及处理,内置全温标定补偿的高精度 IMU,支持车载以太网、RS232 串口、CAN/CAN FD 和 PPS 接口。基于高精度 RTK/IMU 融合算法引擎,融合 GNSS 信号抗干扰 / 抗多径技术,在复杂观测场景下为用户提供连续的高精度、高可靠性、高鲁棒性定位导航信息。

展位号 Booth : A16

弗钛立驶智能科技(上海)有限公司
Foretellix Ltd.

foretellix
THE ROAD TO SAFE AUTONOMY

Foretellix安全驱动型测试和验证平台
The Foretellix Safety-Driven Testing and Verification Platform

Foretellix安全驱动型测试和验证平台——Foretify™可在开发早期高效地发现边缘案例和错误情况,为衡量覆盖度及系统安全性评估提供依据。平台具体包括:
- **Foretify Developer™**:场景泛化测试工具链,支持OSC2.0抽象场景规范。
- **Foretify Manager™**:V&V场景管理评价大数据分析平台,提供显示KPI与测试覆盖度等指标的仪表板;
- **Foretify Core™**:Foretify约束随机性场景执行核心引擎,可在虚拟仿真中实现超大规模测试编排及生成;
- **Foretify LogIQ™**:路测数据分析工具,可自动提取包含真实驾驶特征的抽象场景切片并进行自动化泛化分析,检测边缘案例和异常,提取关键绩效指标、检查项和覆盖项;
- **Foretify V-Suite™**:开箱即用的V&V验证套件,提供丰富的抽象场景库、覆盖项、检查项及KPI等评价指标定义。

The Foretellix Safety-Driven Testing and Verification Platform — Foretify™ enables efficient discovery of edge cases and errors early in development, providing a basis for measuring coverage and assessing system safety. The Foretify platform is used by engineers at OEMs, Tier-1 suppliers, and AV stack providers to accelerate the development and deployment of safe Automated Driving Systems and ADAS. Foretify provides a unified V&V flow that combines real-world test drives and hyper-scale simulation in one platform. The platform includes:

Foretify Developer™ - Tool for developing, extending, and debugging OpenSCENARIO 2.0 scenarios with features like interactive scenario visualizer and debug log.

Foretify Core™ - Executes OpenSCENARIO 2.0 scenarios for testing at-scale, monitoring system and simulation to compute and track KPIs, checks, and coverage metrics.

Foretify Manager™ - Manages large-scale test-suite execution, creating and executing V&V plans, and analyzing test results and coverage.

Foretify LogIQ™ - Analyzes drive logs to maximize their utilization by identifying scenarios of interest, detecting edge cases, and extracting KPIs and coverage metrics.

Foretify V-Suite™ - Comprehensive V&V libraries in OpenSCENARIO 2.0 for automatic generation of test scenarios, including predefined test plans, scenarios, maps, and metrics.
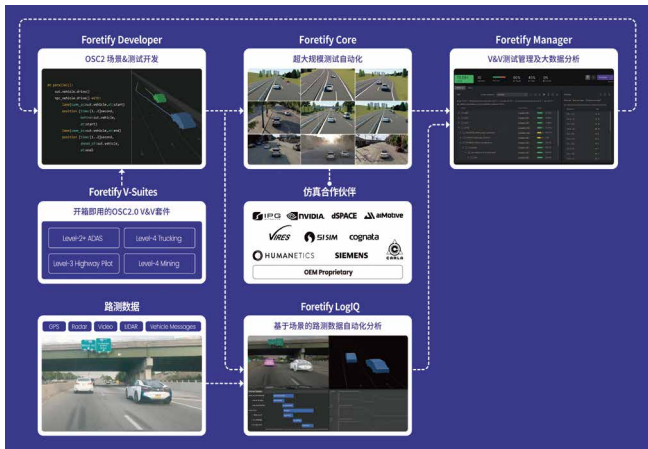
展位号 Booth : A17

格睿科技
### Greptime

GreptimeDB 车云一体解决方案

Greptime 车云一体解决方案

一款深入车企实际业务场景的时序数据库解决方案,解决了智能汽车数据量呈几何倍数增长后的实际业务痛点。该方案在降低数据使用成本和提高数据使用效率方面,已经获得了头部车企的高度认可。

展品架构图展示

车端数据库 GreptimeDB Edge: 适用于车端环境,能够对存储和计算环境进行优化;充分利用车内算力开发车内应用;高压缩率的数据文件可直接同步至云端查询使用。

云端数据库 GreptimeDB 车云一体版: 云原生分布式时序数据库,内置 SQL 分析能力,兼容上下游数据生态;基于对象存储;架构可弹性扩展,运维、存储成本低;针对车云场景专门优化,提升车端上传数据的读取速度,支持大规模车辆终端。

车云一体管理平台 GreptimeDB Edge Manager: 控制面管理平台,实现对边缘设备、车云两端数据模型、数据质量、上传任务的管理和监控,提升端到端运维能力。
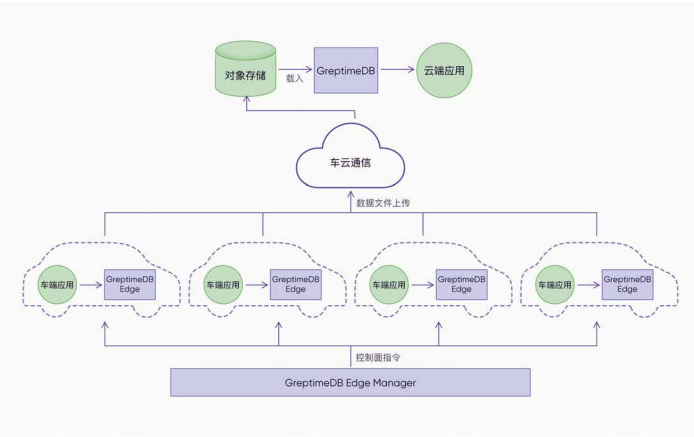
展位号 Booth : A18

苏州同元软控信息技术有限公司
Suzhou Tongyuan Software & Control Technology Co., Ltd.

同元软控 TONGYUAN

新一代科学计算与系统建模仿真平台MWORKS

同元软控历时十多年研制了新一代科学计算与系统建模仿真平台MWORKS,由四大系统级产品:系统架构设计环境 MWORKS.Sysbuilder、系统建模仿真环境 MWORKS.Sysplorer、科学计算环境MWORKS.Syslab、协同建模与模型数据管理环境MWORKS.Syslink及系列扩展工具箱和模型库以及工业知识模型互联平台MoHub组成。

MWORKS是世界上第四个实现科学计算与系统建模仿真一体化的平台软件,是全面提供MATLAB/Simulink®同类功能并大力创新的新一代科学计算与系统建模仿真平台。MWORKS填补了国内空白,为航天、航空、船舶、能源等重点行业提供了先进的、完备支撑装备数字化的信息物理系统建设、建模与仿真计算平台。在新一代系统级研发设计软件方面彻底扭转了中国软件落后二十年的态势,为我国装备工业数字化提供了先进、自主的工具软件。

Tongyuan has dedicated over a decade to the development of MWORKS, a new generation scientific computing and system modeling simulation platform. It consists of four system-level products: MWORKS.Sysbuilder for system architecture design environment, MWORKS.Sysplorer for system modeling and simulation environment, MWORKS.Syslab for scientific computing environment, and MWORKS.Syslink for collaborative modeling and model data management environment. Additionally, it includes a series of extended toolkits, model libraries, and industrial knowledge model interconnection Platform MoHub.

MWORKS is the world's fourth platform software to integrate scientific calculation with system modeling and simulation. It provides the same functions as MATLAB/Simulink® while also innovating vigorously. This platform fills a gap in China by providing advanced support equipment digitization information physical system construction and modeling/simulation computing capabilities for key industries such as aerospace, aviation, shipbuilding, and energy. In terms of new generation R&D and design software at the system level, it has completely reversed the trend of China's software lagging behind for 20 years by offering advanced independent tools for China's equipment industry digitalization.

展位号 Booth：A20

杭州车凌网络科技有限公司
CARLINX MULTI Tech Co., Ltd.

车凌科技 CARLINX MULTI

哨兵模式 Sentinel Mode

产品概述： 哨兵模式产品拥有深度学习算法和高效的图像处理能力，为车主提供全天候的车辆监控解决方案。它能够准确识别并追踪车辆周围的动态变化，及时发现并处理异常情况，确保车辆在任何时候都能得到全方位的保护。

核心优势：

深度学习算法：通过深度学习技术，哨兵模式能够准确识别各种异常情况，如碰撞、刮擦等，为车主提供及时的警报信息。

高效的视觉算法：强大的视觉算法能够在短时间内对大量图像数据进行处理和分析，确保系统快速响应异常情况。

云存储与远程查看：通过云存储功能，车主可以随时查看历史监控记录，同时支持远程查看实时视频，为车主提供更加便捷的安全保障。

低功耗与定性：考虑到车辆电瓶的续航能力，哨兵模式产品采用了低功耗设计，在确保性能的同时，最大限度地降低了能耗，保证了系统的长时间稳定运行。

Product Overview:

Sentinel Mode is equipped with deep learning algorithms and efficient image processing capabilities, providing owners with a round-the-clock vehicle surveillance solution. It can accurately identify and track dynamic changes around the vehicle, promptly detect and handle abnormalities, ensuring comprehensive protection for the vehicle at all times.
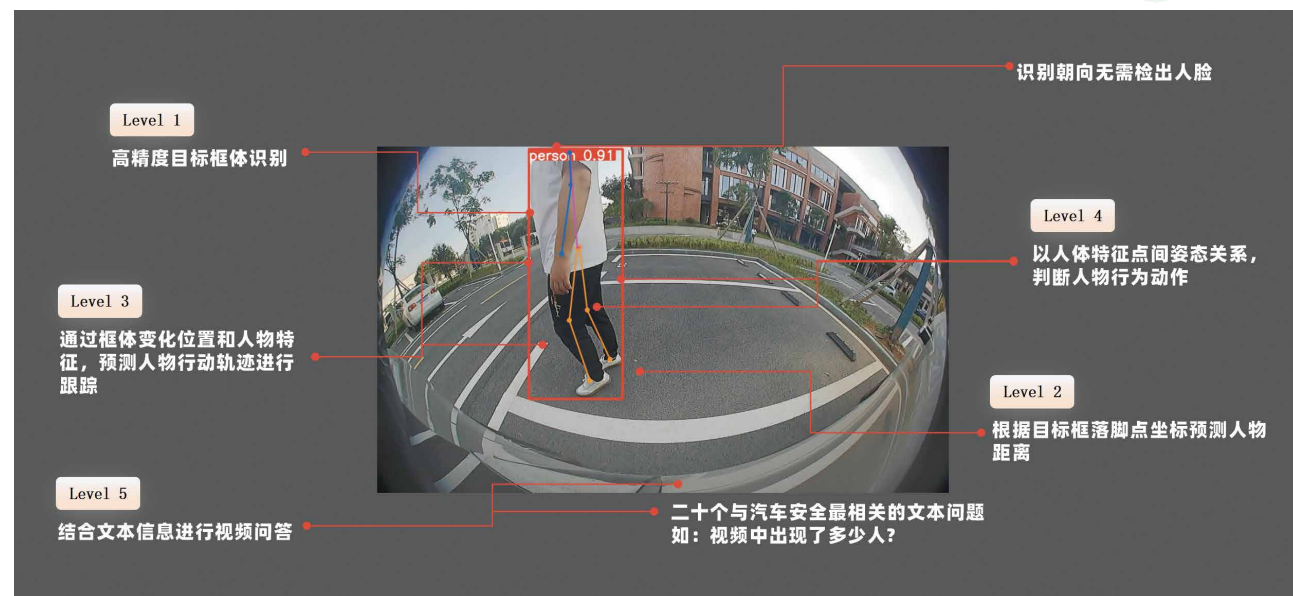
Core Advantages:

Deep Learning Algorithms: Leveraging deep learning technology, Sentinel Mode can accurately recognize various abnormalities such as collisions, scratches, and provide timely alert information to owners.

Efficient Visual Algorithms: Powerful visual algorithms can process and analyze a large amount of image data in a short time, ensuring a rapid response to abnormalities.

Cloud Storage and Remote Viewing: Through cloud storage, owners can view historical surveillance records at any time and support remote viewing of real-time videos, providing owners with more convenient security.

Low Power Consumption and Reliability: Considering the battery life of the vehicle, Sentinel Mode adopts a low-power design, minimizing energy consumption while ensuring performance, ensuring stable operation of the system for extended periods.

Level 1 高精度目标框体识别

Level 3 通过框体变化位置和人物特征，预测人物行动轨迹进行跟踪

Level 5 结合文本信息进行视频问答

识别朝向无需检出人脸

Level 4 以人体特征点间姿态关系，判断人物行为动作

Level 2 根据目标框落脚点坐标预测人物距离

二十个与汽车安全最相关的文本问题 如：视频中出现了多少人？

展位号 Booth：A21

浙江海康智联科技有限公司
ZHEJIANG HIKAILINK TECHNOLOGY CO.,LTD.

海康智联 HIK AI LINK

浙江海康智联科技有限公司(简称"海康智联")致力成为国内领军的智能网联与车路协同产品和技术服务商。海康智联是国家级高新技术企业，第一批浙江省专精特新中小企业、杭州市企业技术中心，余杭区准独角兽企业。海康智联以车联网、大数据、人工智能技术为核心，聚焦路侧/车端/平台智能化，为交通企业/政府、车企与院校，在自动驾驶测试/运营/监管、交通行业治理和人才培养等方面提供技术、产品、解决方案及信息服务；受邀参与制定多项标准；业务覆盖北京、上海、天津、广东、浙江、江苏、安徽、湖北等20+个区域。

ZHEJIANG HIKAILINK TECHNOLOGY CO.,LTD. (hereinafter referred to as "HIKAILINK") .The HIKAILINK focuses on the new generation of traffic information infrastructure with Internet of Things and artificial intelligence technology as the core, providing the Cooperative Vehicle Infrastructure System (CVIS) products to government and corporations. Since 2016, undertaking a CVIS project from Zhejiang Province and the Ministry of Industry and Information Technology (MIIT), HIKAILINK has been exploring the business of CVIS and conducting the research and development of CVIS related electronic equipment and software products. Now, HIKAILINK positions itself as a provider of CVIS products and CVIS solutions for autonomous driving as well as intelligent transportation. With participating multiple national and municipal key projects, HIKAILINK has expended its market on Connected Vehicle Testing Center , Smart Highway, and Information-to-everything (I2V) CVIS Service.

智能路侧终端(RSU)

产品介绍

具备工业级可靠性及低时延要求；对面向自动驾驶的人车路系统控制、协调和管理具备较强的智能化特性；对基于智能路侧控制站的工业网络结构具备自适应性，并具柔性扩展功能；对智能路侧控制站具备智能系统运营和维护功能。

产品亮点

- 支持车-路信息实时交互与智能交通路侧系统一体化协同控制
- 可接入交通视频检测器、交通信号机等路侧基础设施，支持交通数据回传、交通事件实时发布、局部逻辑路网管理系统构建
- 运行基于LTE-V标准，提供车-路信息实时交互
- 通信距离：不低于800米
- 数据频率：10Hz
- 通信制式：LTE-V PC5 mode4
- 工作频段：5905~5925MHz

智能车载终端(OBU)

产品介绍

采用工业互联网架构及低时延无线通信，实现基础的计算处理能力；具备针对不同网络信息具备安全分级和保障机制；具备良好的可扩展性； 能够较好的适应车载环境，时延、正常环境丢包率和错包率满足相应网络要求。

产品亮点

- 支持车载供电
- 具备卫星定位功能，支持室内定位技术
- 具备动态预警和交互信息实时显示和语音预警功能
- 具备远程发行、升级、维护、统计、告警功能
- 通信距离：不低于500米
- 数据频率：10Hz；通信制式为LTE-V PC5 mode4
- 工作频段为5855~5925Mhz
- 工作带宽：10/20Mhz
- 发射功率：最大23dbm，最小-40dbm

边缘计算终端(MEC)

产品介绍

基于部署在路侧的各类传感器(毫米波雷达、摄像头等)多源数据，实现全域路网宏微观检测及分析，在边缘侧实时融合计算区域路网内交通参与者类型、速度等信息，实现交通事件识别、道路运行效率评价等功能。

产品亮点

- Intel®Xeon® E or 9th/8th-Gen Core™ i7/i5/i3 processor Intel® Q370/ W480E/ H310芯片组
- 深度学习能力，支持350WGPU/75W PGPU/AI 加速卡
- 灵活配置面向全息路口、全息路段、智慧斑马线等多种场景感知算法
- 行人、机动车、非机动车常规道路交通目标全样感知
- 低时延、高频率、高可靠实时感知数据计算共享
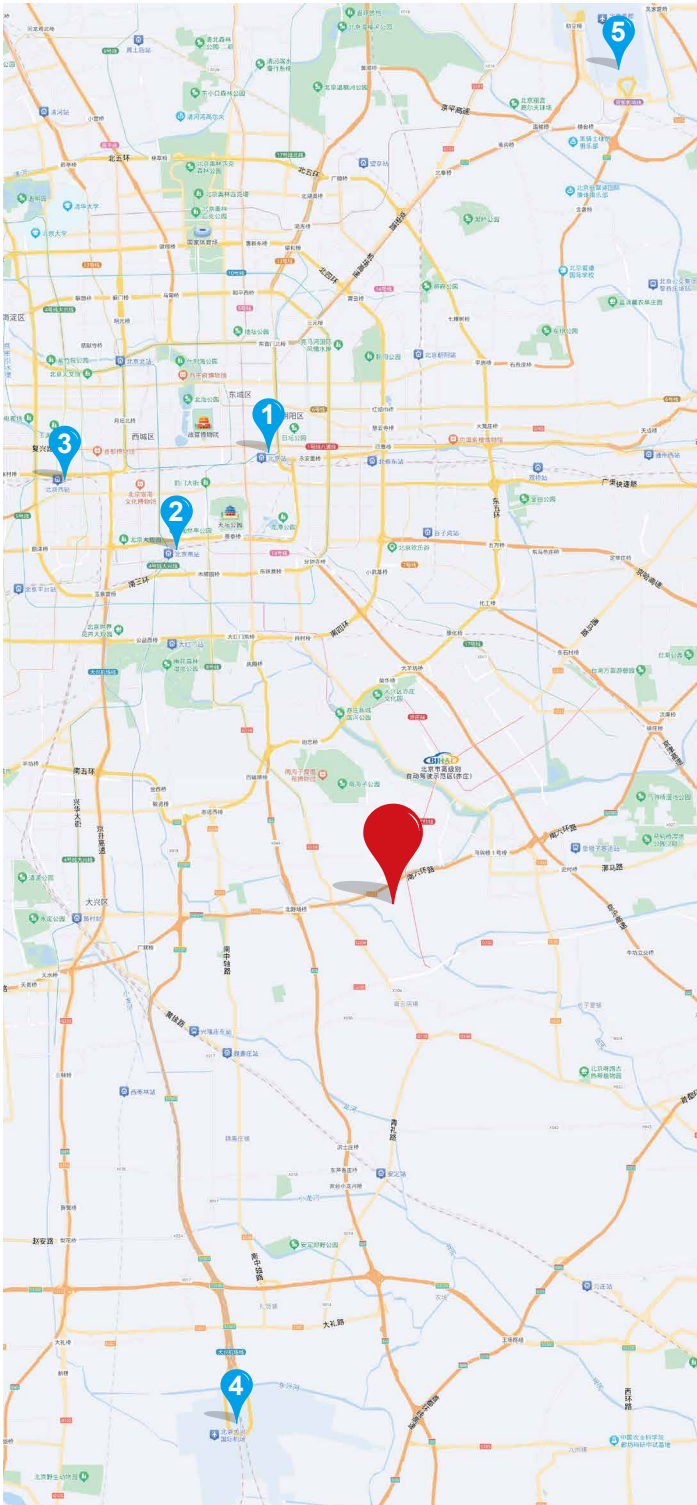- 具备开放能力，支持远程更新算法，为第三方算法提供主流AI框架和支撑库。

地址 / Address

国家智能网联汽车创新中心
National Innovation Center of Intelligent and Connected Vehicles

北京市大兴区融兴北三街39号
No. 39, Rongxing North 3rd Street, Daxing District, Beijing

会场位置图 / Map

📍 **国家智能网联汽车创新中心**
National Innovation Center of Intelligent and Connected Vehicles

火车站 Railway Station

1 距北京站（火车站）：28公里
28 km from Beijing Railway Station

2 距北京南站（火车站）：26公里
26 km from Beijingnan Railway Station

3 距北京西站(火车站)：35公里
35 km from Beijingxi Railway Station

机场 Airport

4 距北京大兴机场：38公里
38 km From Beijing Daxing Airport

5 距北京首都机场：60公里
60 km from Beijing Capital International Airport

班车信息 Shuttle Bus

酒店 班车时刻表 / Hotel Shuttle Bus Schedule

	路线1 Line One	路线2 Line Two	路线3 Line Three
	站点 Stop 1 丰大国际大酒店 Beijing Fengda International Hotel	站点 Stop 1 北京格兰云天国际酒店 Beijing Grand Skylight International Hotel	站点 Stop 1 北京亦庄开发区全季酒店 Beijing Yizhuang Development Zone All Season Hotel
	站点 Stop 2 国家智能网联汽车创新中心 National Innovation Center of Intelligent and Connected Vehicles	站点 Stop 2 国家智能网联汽车创新中心 National Innovation Center of Intelligent and Connected Vehicles	站点 Stop 2: 国家智能网联汽车创新中心 National Innovation Center of Intelligent and Connected Vehicles
6月17日 June 17	站点Stop1→站点Stop2 出发时间 Departure Time：13:00/15:00/17:00		
	站点 Stop 2→站点 Stop 1 出发时间 Departure Time：14:00/16:00/18:00		
6月18-20日 June 18-20	站点 Stop1→站点 Stop2 出发时间 Departure Time：7:50/8:20/08:50/13:00/13:30		
	站点Stop2→站点Stop1 出发时间 Departure Time：13:00/13:30/18:00/18:30/19:00		

晚餐 班车时刻表 / Dinner Shuttle Bus Schedule

	路线1 Line One	路线2 Line Two	路线3 Line Three
	站点 Stop 1 国家智能网联汽车创新中心 National Innovation Center of Intelligent and Connected Vehicles	站点 Stop 1 国家智能网联汽车创新中心 National Innovation Center of Intelligent and Connected Vehicles	站点 Stop 1 国家智能网联汽车创新中心 National Innovation Center of Intelligent and Connected Vehicles
	站点 Stop 2 丰大国际大酒店 Beijing Fengda International Hotel	站点 Stop 2 北京格兰云天国际酒店 Beijing Grand Skylight International Hotel	站点 Stop 2: 北京亦庄开发区全季酒店 Beijing Yizhuang Development Zone All Season Hotel
6月18日 June 18	站点Stop1→站点Stop2 出发时间 Departure Time：20:45		
6月19日 June 19	站点Stop1→站点Stop2 出发时间 Departure Time：21:15		

住宿信息 / Hotel Reservation

组委会为参会代表推荐 3 家住宿酒店，请访问官网 www.cicv.org.cn- 参会服务 - 酒店信息。请参会代表及观众、各参展商人员自行预定酒店，住宿费用自理，请尽早预定。如需团队预订请联系我们。

联系人：郭宇航先生 18641877866

The meeting affairs group recommends 3 hotels, Agreement hotel online booking link: http;//www.cicv.org.cn--Registration--Aceommodation. Participants are requested to reserve the hotel as soon as possible by themselves, and accommodation expenses shall be borne by themselves.For group reservation please contact us.

Contact: Mr. Guo 18641877866

用餐 / Meals

日期 / Date	时间 / Time	用餐 / Meal	地点 / Address
6月18日 June 18	12:00-13:30	午餐 Lunch	沁怡楼一层 1F, Qinyi Building
	12:00-13:30	VIP 午餐 VIP Lunch	沁怡楼二层 2F, Qinyi Building
	18:30-20:30	VIP 晚餐 Gala Dinner	日新楼试制试装中心 Trial Production Center, RiXin Buliding
6月19日 June 19	12:00-13:30	午餐 Lunch	沁怡楼一层 1F, Qinyi Building
	12:00-13:30	VIP 午餐 VIP Lunch	沁怡楼二层 2F, Qinyi Building
	19:00-21:00	CTO晚餐 Gala Dinner 2	沁怡楼二层 2F, Qinyi Building
6月20日 June 20	12:00-13:30	午餐 Lunch	沁怡楼一层 1F, Qinyi Building
	12:00-13:30	VIP 午餐 VIP Lunch	沁怡楼二层 2F, Qinyi Building

组委会联络方式 / Organizing Committee Contacts

会场服务 Conference Service	贾倩倩 / Janet JIA 王睿 / Ray WANG 宋亚清 / SONG Yaqing 李羽晏 / LI Yuyan	+(86) 150 0102 1545 +(86) 199 1012 9864 +(86) 186 1146 5919 +(86) 176 1052 0932
参会注册 Registration	罗慧姝 / Stella LUO	+(86) 134 3980 9598
展商服务 Exhibitor Service	马天健 / Michael MA 李白 / Lydia LI 叶伟 / Jason YE	+(86) 176 1154 9211 +(86) 159 0111 0518 +(86) 135 8554 2275
主场搭建 Official Contractor	章祥 / Steven ZHANG	+(86) 156 0178 2688
住宿预定 Hotel Reservation	郭宇航 / GUO Yuhang	+(86) 186 4187 7866
班车咨询 Shuttle Bus	周伯阳 / ZHOU Boyang	+(86) 185 0023 4108
大会传播与媒体合作 Conference Promotion & Media Cooperation	孙冰倩 / Amoris SUN 纳森 / NA Sen	+(86) 186 1696 4781 +(86) 159 0151 2618
英文沟通 English Communication	李羽晏 / LI Yuyan	+(86) 176 1052 0932

中国汽车工程学会
China Society of Automotive Engineers

助力汽车产业科技创新与高质量发展

中国汽车工程学会
汽车科技成果评价服务

Q1 什么是 科技成果评价?

科技成果评价服务是指专业评价机构对科技成果的创新性、先进性、成熟度、可行性、应用前景、技术水平等方面进行评估。

Q2 什么技术可以 做科技成果评价呢?

汽车产业作为科技创新"大户",汽车领域相关的技术,都可以从科学价值、技术价值、经济价值、社会价值、文化价值等方面进行多元价值评价。

评价范围覆盖

- 节能汽车
- 纯电动与插电式混合动力汽车
- 氢能及燃料电池汽车
- 智能网联汽车
- 飞行汽车
- 动力电池
- 驱动系统
- 智能座舱
- 智能底盘
- 充电基础设施
- 车路协同/路云基础设施
- 汽车轻量化及新材料
- 智慧出行综合解决方案
- 智能制造与关键装备
- 汽车关键零部件及软件等领域

Q3 科技成果评价 有什么作用呢?

技术交易
以评价促交易。评价可以深入了解科技成果的创新性、先进性、应用前景等,有利于获得投资方和合作方的认可,可作为获取投资、许可、转让、合作中的重要评判依据。

企业创新技术规划指导
科技成果评价可以帮助企业了解创新技术项目的技术水平、核心竞争力和市场地位,为企业的技术创新和产品规划提供建议,有利于提高科技创新效率和成果的质量,提升竞争力。

市场推广
提供的权威专家意见和第三方评价报告,有利于技术成果快速获得行业的认可,提高科技成果及产品的市场竞争力和影响力。

科技成果转化
以评价促转化。评价可充分挖掘科技成果价值、揭示转化风险,弥补成果交易双方的信息"断层",为金融机构、孵化平台、地方招商等转化服务提供决策参考和建议。

科技项目支持及评估
评价报告可作为获得国家及地方政府相关政策支持及项目验收的重要佐证材料。可以作为项目成效、技术创新性、技术水平、项目目标的完成情况、效益评判的重要依据。

科技奖励
在国家、地方政府以及社会团体设奖的科技奖励受理、评审等过程中,科技成果评价结果可以作为奖励申报、受理的初步筛选和评审依据。

Q4 去哪做 科技成果评价?

来找中国汽车工程学会!

学会自2012年开展汽车领域科技成果评价服务工作,根据科技成果不同特点和评价目的,有针对性地评价科技成果的多元价值,坚持科技创新质量、应用价值、社会贡献为核心的评价导向,形成标准化、规范化、便利化工作制度,构建了专业、权威的专家资源库,搭建了专业优质的科技成果评价服务平台。

截至目前,已累计组织开展210多项汽车科技成果评价,共邀请院士、教授、整车及零部件企业技术专家等评价专家1800余人次。一批高校、研究机构、整车及零部件企业的重大创新成果通过科技成果评价,有力地支撑了科技成果的推广应用。

已累计组织开展
210 多项汽车科技成果评价

共邀请
1800 位院士、教授、整车及零部件企业技术专家等评价专家

科技成果评价证书

Q5 做科技成果评价的 流程是什么?

评价咨询 01
委托方了解科技成果评价流程及要求,评价机构了解评价目的及项目基本情况,委托方出具委托函。

资料审查 02
评价机构对委托方提交的评价资料进行形式审查。

组织评价 03
评价资料形式审查通过后,评价机构根据项目领域遴选组建评价专家组,按照评价程序组织开展评价工作。

出具报告 04
根据评价专家组意见,出具由中国汽车工程学会盖章的科技成果评价报告。

Q6 你们帮哪些企业 做过评价?

整车企业
中国一汽、东风汽车、北汽集团、上汽集团、广汽集团、比亚迪、江淮汽车、长安汽车、长城汽车、吉利汽车、奇瑞汽车、蔚来汽车、小米汽车、宇通客车、江铃汽车、中通客车、厦门金龙、徐工汽车等。

零部件企业
蜂巢传动、亿华通、国富氢能、凯博易控、吉利罗佑、宁德时代、上海神力、华为、上海重塑、育材堂、爱德曼、特百佳、安徽相泰、凌云西南、苏州豪米澜、盛瑞传动、马斯特、山东威able、广州巨湾、毫末智行等。

高校科研院
中汽中心、中国汽研、清华大学、北京航空航天大学、北京理工大学、同济大学、上海交通大学、吉林大学、浙江大学、湖南大学、武汉理工大学、合肥工业大学、中国农业大学、重庆邮电大学、南京理工大学等。

*以上为部分委托评价单位,排名不分先后。

Q7 项目不在评价范围里, 可以做吗?

整车开发
混动车型平台、电动化整车平台、SUV平台、越野车平台、整车NVH、整车测试、整车级电磁兼容、商用车关键技术、整车热管理等。

系统开发
车身开发、定制化车身、汽车悬架、制动系统、碰撞安全、低噪声车身系统、车身控制系统等。

轻量化方向
全铝车身、铝基轻量化、热冲压钢等。

节能汽车动力及传动方向
直喷增压汽油机、混动发动机、车用柴油机、48V混动系统、重型变速箱、变速器、节能技术等。

氢能方向
燃料电池客车、燃料电池系统、燃料电池金属双极板、加氢站、供氢系统等。

智能化方向
无人驾驶系统、驾驶辅助系统、智能网联、电子电气系统、智能控制、智能底盘、感知技术等。

三电系统
电池系统、充换电系统、电驱动系统、整车控制和能量管理等。

其他
智慧能源系统、车辆环保、车用能源、整车回收、交通事故伤害研究、智能制造、数字化虚拟制造等。

* 汽车领域相关整车平台、系统、关键零部件、材料、制造、软件等技术都可以做评价,以上为部分已评价项目案例。

联系人
中国汽车工程学会 丁老师
电话: 18611215303(与微信同号)
邮箱: dingquan@sae-china.org

扫一扫了解 更多科技成果评价

中国汽车工程学会
China Society of Automotive Engineers

SAECCE 2024
第三十一届中国汽车工程学会年会暨展览会
THE 31ST CHINA-SAE CONGRESS & EXHIBITION

2024/11/11-14
中国·重庆

November 11-14
China·Chongqing

全方位展示汽车领域
新技术、新产品，引领
汽车技术升级发展新
方向

80+
场次会议论坛

40+
汽车基础研究方向
前瞻技术及热点话题

4,000+
汽车全产业链参会嘉宾

初步日程概览

时间	11月12日	11月13日	11月14日
上午	SAECCE2024开幕式及巡展	SAECCE2024主论坛 新能源 中国汽车工程学会第十届二次理事会 暨二次常务理事会 专题论坛 技术研讨会	SAECCE2024主论坛 汽车材料 专题论坛 技术研讨会
下午	SAECCE2024主旨报告 环节一：学术与前沿科技 环节二：技术与工程应用 2024中国汽车技术首脑（CTO）闭门峰会 技术研讨会	SAECCE2024主论坛 智能网联 专题论坛 技术研讨会	SAECCE2024主论坛 人工智能 专题论坛 技术研讨会
晚上	GALA DINNER CTO晚宴	会员之夜	
同期活动	技术展览、游学活动、商务及社交活动（会士、青年委员会、会议主席、女性科学家等）、地方特色活动 青少年汽车科技节、汽车科技创新比赛、试乘体验、企业参观、论文Poster等		

SAECCE 2023重磅嘉宾分布

40+ 政府领导　**6+** 行业院士　**100+** 国内外专家　**80+** CTO/总工/副总工

250+ 企业高层（董事长、总经理、总裁）　**80+** 校长/教授/院长

CHINA SAE CONGRESS & EXHIBITION

技术展览：打造更专业、更大规模的汽车全产业链交流平台

· 全面洞悉汽车领域最新技术进展、产业风向和生态体系
· 覆盖汽车全产业链多个重点领域，100+上中下游企业同台展示
· 专业观众群体：超2/3观众来自整车及核心零部件企业，超3/4专业观众拥有推荐和决策权

四大主题及特色展区

主题展区一：整车、节能与新能源汽车技术
设置新能源汽车固态电池、
热管理特色展

展品包括但不限于：
· 新能源整车
· 发动机及动力总成
· 轻量化零部件、材料及相关技术
· 电机及电驱系统/电控系统/动力电池
· 充换电和配套设施
· 新能源汽车线束与连接器

主题展区二：智能网联技术
设置车路云一体化特色展

展品包括但不限于：
· 智能驾驶解决方案及AI芯片、感知传感器
　等硬件
· 智能座舱相关技术、座舱芯片、域控制器等
　零部件及人机交互相关技术及展品。
· 网联通信解决方案及相关展品等
· 智能驾驶安全解决方案等
· 路侧设备、地图及定位模组等基础设施

主题展区三：测试仿真技术与装备
设置仿真软件及工具链特色展

展品包括但不限于：
· 测试技术及装备等
· 仿真技术及软件工具链等

主题展区四：整车集成、共性技术
设置车规级芯片特色展

展品包括但不限于：
· 整车集成、车身与内外饰、线控底盘、及汽车
　共性技术相关技术及产品

中汽创智创新成果展示台

SAECCE 2023部分参展企业

整车&一级零部件	东风汽车	长安汽车	BYD	小鹏汇天	BOSCH	UAES
智能网联相关	CICV	CiDi希迪智驾	BiCV	中科智联	福瑞泰克	CHUHANG	bynav北云
芯片	AMD	Geehy极海半导体	CHIPANALOG川土微电子	芯旺微电子	MORNINGCORE	琻捷 SemiDrive	NOVOSENSE	longsys	AXera	紫光同芯
底盘及驱动总成	CAIC中汽创智	精进电动	英创汇智TAINOVA	中国中车CRRC	BIAO	KUNTYS	格陆博科技
仿真与测试	Ansys		Ospirent	KEYSIGHT	INFO富睿仪器	LOTUS ROBOTICS	昆易电子	Automotive

同期活动：赓续学会宗旨，重磅技术成果及行业重要奖项的发布平台

汽车工业饶斌奖颁奖　中国汽车工程学会会士授予仪式　2024中国汽车工程学会科学技术奖颁奖　论文相关奖励奖项　科普及比赛类奖项　发布及签约活动

参展/赞助联系

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