Suzhou·2023
29th ITS World Congress

第29届智能交通世界大会

智能交通 美好生活

苏州国际博览中心

SUZHOU CHINA

2023.10.16 — 10.20

指导单位：
交通运输部
江苏省人民政府

主办单位：
苏州市人民政府
江苏省交通运输厅
交通运输部公路科学研究院

联合主办单位：
亚太智能交通协会
美洲智能交通协会
欧洲智能交通协会

协办单位：
苏州市交通运输局
苏州工业园区管理委员会
中国智能交通产业联盟

第29届世界智能交通大会
MaaS平台简介

APP名称：ITS出行
ITS出行APP将为第29届世界智能交通大会提供一站式的交通出行和信息服务。

主要功能：

【出行服务】

提供大会所需的多维度的交通出行服务，包含交通信息查询，规划导航，和出行一体化服务，涵盖：公共交通，自行车，自驾，出租车，网约车，智能网联车，Robotaxi，会议班车以及未来交通出行技术演示和体验。

【大会服务】

提供会议议程、展商信息、技术考察、演示项目、新闻发布等大会详细内容的查询与日程安排。支持用户对参会行程进行自定义安排，并提供相应出行建议。

主要特点：

一站式“出行+大会信息服务”

会议周边“任我行”

参会行程“随我排”

未来交通“带你看”

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Suzhou·2023
29th ITS World Congress

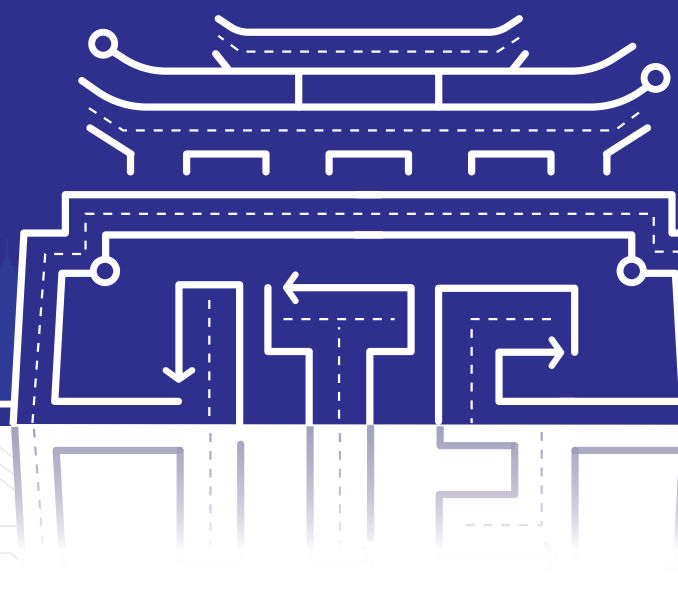
第29届智能交通世界大会

29th ITS WORLD CONGRESS

智能交通 美好生活

Driving Towards Intelligent Society ——Quality Life

2023 10.16—10.20



CHINA
中国
苏州
SUZHOU

智能交通世界大会（ITS World Congress）是由美洲、欧洲、亚太地区智能交通国际组织发起的国际会议，是智能交通领域最具影响力的综合性国际会议，也是智能交通业界规格最高、规模最大、范围最广的成果展示与技术交流平台。自1994年开始，大会每年举办一届，世界三大洲轮流举办，目的是推动智能交通领域前沿技术的研究，推广智能交通系统的应用。智能交通世界大会迄今已成功举办了28届，大会集展览和学术会议于一体，展示各国智能交通发展技术实力和研究成果，邀请各国政府官员、技术专家、企业界人士和有关国际组织专家莅临出席。

基本信息

第29届智能交通世界大会于2023年10月16日至20日在苏州国际博览中心举办，苏州成为继北京之后，第二座代表中国来举办该大会的城市。大会主题是：智能交通，美好生活。大会内容主要包括智能交通论坛、智能交通展览、技术和文化交流等活动，其中展览展示面积2.25万平方米，重点展示世界智能交通前沿装备、智能汽车和载运工具、智能化交通管理与控制、新一代交通系统与服务等方面的产品和技术等。

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欢迎致辞

吴庆文

第29届智能交通世界大会主席
苏州市人民政府市长

第29届智能交通世界大会将于2023年10月16日至20日在中国苏州举办，我很荣幸邀请您参加此次盛会。会议由交通运输部、江苏省人民政府共同指导，苏州市人民政府、江苏省交通运输厅、交通运输部公路科学研究院共同主办，欧洲、美洲、亚太智能交通协会联合主办，苏州市交通运输局、苏州工业园区管理委员会、中国智能交通产业联盟共同协办。

苏州是中国著名的历史文化名城，也是一座开放繁荣、活力无限的城市。作为长三角中心城市之一，苏州区位优势明显、产业基础扎实、对外合作密切、创新环境优越、办会办展经验丰富，这为成功举办大会奠定了坚实基础。

第29届智能交通世界大会的主题为：智能交通，美好生活。这充分体现顺应人民期盼、聚焦智能交通、满足人民群众美好生活的坚强决心。本届大会内容丰富，精彩纷呈，主要包括智能交通会议、展览、技术展示、论文评选等活动。大会还将为赞助商和合作伙伴提供全面互动交流的机会、分享前沿交通技术、推动建立互利互惠的伙伴关系、充分感受智能交通的魅力。全球专家将齐聚一堂，共同丰富未来智能交通的构想，推动亚太地区乃至全球智能交通行业交流融合向更高层次、更宽领域发展。

我们很荣幸在2023年举办第29届智能交通世界大会，并真挚地欢迎您参加和赞助本届大会，积极分享您的见解和经验。让我们相聚苏州，相聚第29届智能交通世界大会。苏州欢迎您！

Akio Yamamoto
亚太智能交通协会
秘书长

我谨代表亚太智能交通协会，邀请大家参加在苏州举办的第29届智能交通世界大会。
苏州是一座国际化都市，她是中国智能交通领域的领跑者，工业基础雄厚，创新环境一流。

目前，智能交通领域正掀起交通服务和基础设施结合城市规划和数字化的浪潮。智能交通的服务范围也不断扩大，从交通领域本身到综合解决方案，旨在解决各类社会问题，例如环境问题、灾后重建等。因此，本届智能交通世界大会将“智能交通，美好生活”作为大会主题可谓恰如其分。

我相信，届时我们将能够欣赏到精彩纷呈的演示，了解先进智能交通技术和服务，藉由展会和技术展示获取新知。

我希望智能交通领域的各利益相关方和专家能共襄盛举，展望在智能交通引领下的优质生活。

我殷切期待来到苏州这个古典与现代交融的城市。我们苏州见！

Laura Chace
美洲智能交通协会
总裁兼首席执行官

我谨代表美洲智能交通协会，欢迎您参加在苏州举办的第29届智能交通世界大会。我们很荣幸能与亚太智能交通协会和欧洲智能交通协会一起，在苏州举办这一盛会。本届大会将汇聚全球智能交通领域的同仁，共同学习、分享知识，并建立新的关系，加快实现更安全、更绿色、更智能的美好愿景。

“智能交通，美好生活”这一大会主题正是我们业内同行日日为之奋斗的目标。智能交通技术的更迭使我们能够推动世界的进步，保障人们出行安全，使我们的城市更智能，创造更繁荣的社区。本次大会将是一场激动人心的盛会，期间有许多富有启发的会议、新兴技术演示，以及众多相互学习、分享和提问的机会。

美洲智能交通协会的愿景是“交通技术和创新引领更美好的未来。更安全、更绿色、更智能、全民共享”。我们倡导通过宣传政策，加强领导，培养多元化的员工队伍，在更大范围部署创新交通技术。美洲智能交通协会的成员期待与世界各地的同道共襄盛举；同时我也希望第29届智能交通世界大会举办期间，大家能够积极参与，满载而归！

Joost Vantomme
欧洲智能交通协会
首席执行官

很高兴能够代表欧洲智能交通协会以及我们的合作伙伴，欢迎您参加在苏州举行的第29届智能交通世界大会。
欧洲智能交通协会很高兴能与亚太智能交通协会和美洲智能交通协会共同举办此次活动，并与中国的主办单位携手，共同谋划智能和可持续交通发展的宏伟蓝图。

智能交通世界大会是全球最重要的盛会之一，是出行服务部署的终极展示，也是智能交通领域追随行业发展步伐，紧跟尖端技术的方式。大会展示智能交通和交通数字化的最新进展，对于大会的举办地而言，更是提高利益相关者、决策者、专家和公众相关认知的重要渠道。

“智能交通，美好生活”是本届大会的主题。智能、创新的解决方案将满足社会和民众的需求，并通过畅通无阻且可持续的出行方案改善人们的日常生活。

本届大会是一个绝佳的平台，智能交通领域的同仁将共赴盛会，交流思想，达成一致，弥合差距，相互碰撞，将想法落地变成现实。

我希望更多的朋友参与到第29届智能交通世界大会，为交通领域贡献自己的想法与力量。

苏州市人民政府

苏州是一座古典与现代交织的“双面绣”城市，素有“人间天堂”的美誉。作为中国长三角重要中心城市之一，苏州区位优势明显、产业基础扎实、对外合作密切、创新环境优越，是一座充满活力、富有魅力、极具吸引力的现代化城市。

近年来，苏州围绕建设“交通运输现代化示范市”和“交通强国示范先行区”目标，以筹办第29届智能交通世界大会为契机，启动建设了太仓港智慧港口、苏台智慧高速、京杭运河苏州段智慧航道等一批示范项目，建成了交通运输指挥中心等一批在全国领先的智能交通品牌，成功创建为江苏省首批车联网先导区、首个数字交通示范区，获批中国交通运输部首批智能交通先导应用试点。苏州已成为全国智能交通快速发展的最具代表性城市之一。

请访问 www.suzhou.gov.cn 了解更多信息。

江苏省交通运输厅

江苏省交通运输厅是江苏省人民政府组成部门，负责贯彻落实中央关于交通运输工作的方针政策和省委的决策部署，贯彻执行党和国家有关交通运输的方针政策、法律法规。组织编制全省综合交通运输体系规划，组织实施国家、省重点和大中型交通运输基础设施建设，承担全省道路、水路运输市场监管责任，指导全省交通运输综合行政执法工作，负责全省交通运输行业安全生产的监督管理，负责全省铁路行业管理工作等。

近年来，江苏省交通运输厅一直致力于推进交通强国试点和交通运输现代化示范区建设，以实现交通运输可持续发展、满足人民日益增长的美好生活需要为目标，加快建设安全、便捷、高效、绿色、经济的现代综合交通运输体系，扩大多样化高品质的服务供给，培育创新驱动、融合高效的发展动能，强化绿色安全、开放合作的发展模式，为推进中国式现代化江苏新实践、谱写“强富美高”新江苏现代化建设新篇章提供有力支撑和保障。

请访问 jtyst.jiangsu.gov.cn 了解更多信息。

交通运输部公路科学研究院

交通运输部公路科学研究院是交通运输部直属的大型综合性公路交通科研机构，主要从事道路工程、桥梁工程、交通工程、智能交通、汽车运用工程、道路运输与物流、公路生态与环境保护工程等领域的科学研究及技术材料与装备开发，主要职责在于服务国家重大战略任务、服务交通运输科学发展、服务行业产业技术进步、服务政府部门履职尽责。

请访问 new.rioh.cn 了解更多信息。

世界大会理事会成员

亚太地区

Akio Yamamoto, Secretary-General, ITS Japan, Japan

Kian Keong Chin, 2019WC BOD Chair, ITS Singapore, Singapore

Bin Li, 2023WC BOD Chair, National ITS Center of China/ China ITS Industry Alliance, China

Brian Negus, ITS Australia, Australia

Jianrong Gu, Committee of Suzhou Comprehensive Transport Society, China

Philip Tseng, ITS Taiwan, Chinese-Taipei

Takehiko Barada, ITS Japan, Japan

Nobuyuki Ozaki, Nagoya University, Japan

Jooil Lee, ITS Korea, Korea

Charles So, ITS Hong Kong, Hong Kong, China

William Sabandar, ITS Indonesia, Indonesia

Siew Mun Leong, ITS Malaysia, Malaysia

Lee McKenzie, ITS New Zealand, New Zealand

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Lisa Boch-Andersen, ERTICO - ITS Europe, Belgium

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Franz Schober, Yunex Traffic, Germany

Harry Evers, ITS Hamburg 2021, Germany

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Mike Rudge, ITS New Zealand, New Zealand

Doug Wilson, The University of Auckland, New Zealand

Kian Keong Chin, Land Transport Authority, Singapore

Jaya Shankar, Institute for InfoComm Research, Singapore

Tongkarn Kaewchalermtong, Chulachomklao Royal Military Academy, Thailand

欧洲地区

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Joost Vantomme, ERTICO-ITS Europe, Belgium – ERTICO CEO

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Carol Schweiger, Schweiger Consulting, LLC

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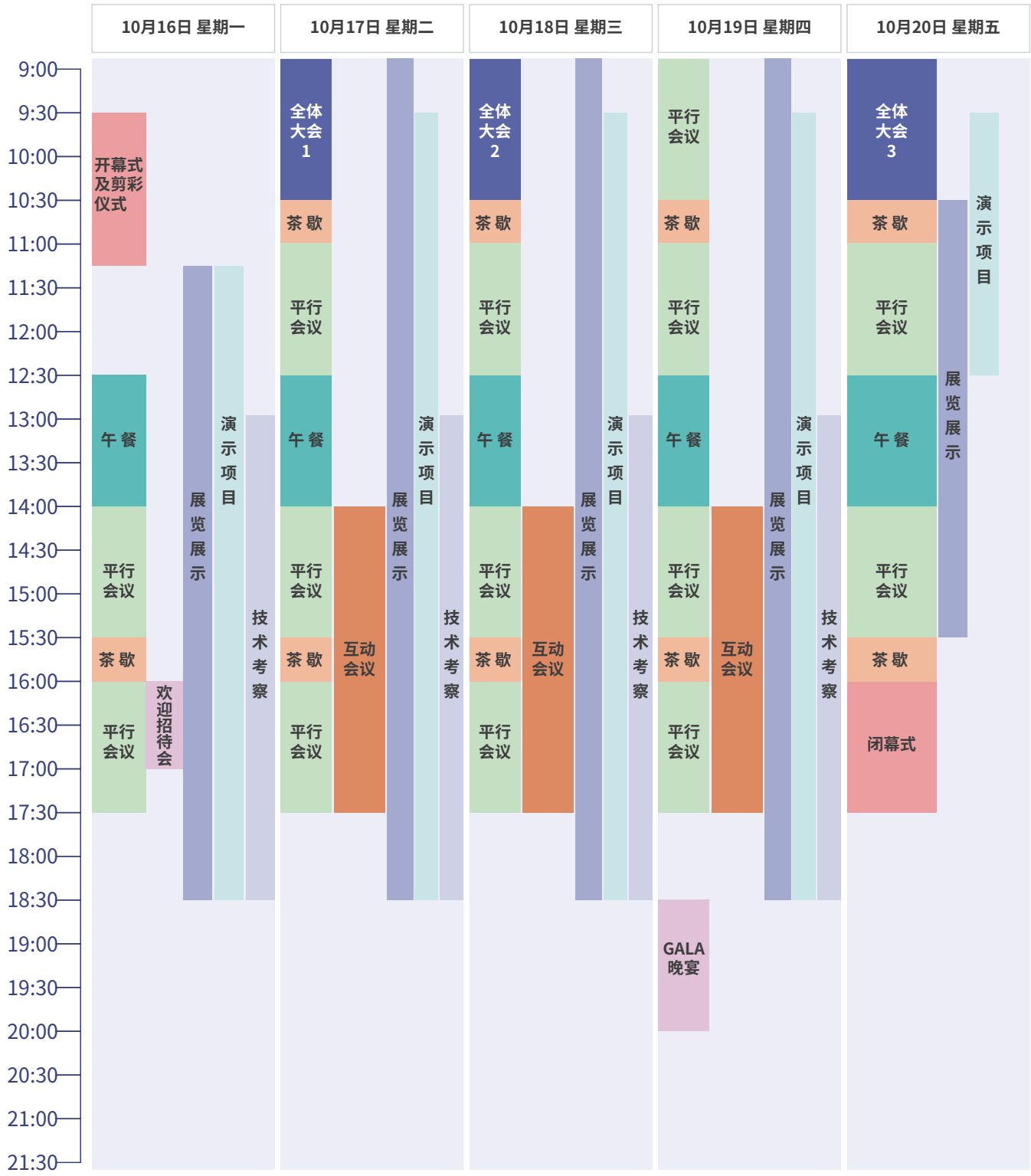
Janneke van der Zee, ITS-STI Canada

议程概览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苏州文博诺富特酒店
苏州国际博览中心
SUZHOU INTERNATIONAL EXPO CENTRE
NOVOTEL

大会议程

部长级圆桌会议

世界大会将有大量来自全球的专家、学者、企业界人士及官员参会，在此期间召开部长级圆桌会议有利于为世界各国在交通前沿技术领域提供宝贵合作契机与更大发展空间，促进和推动国际和区域之间智能交通领域的国际交流和合作。

*仅限邀请者参加。

议题

部长级圆桌会议以“数字化和智能化支撑实现交通高质量发展”为主要议题，围绕数字化和智能化支撑可负担和公平的综合交通系统建设、数字化和智能化提高交通系统的韧性和安全、智能交通系统的可持续发展等内容进行讨论。

市长级圆桌会议

市长级圆桌会议是往届智能交通世界大会的重要高层活动之一，以期借助世界大会的平台，展示各个城市的智能交通发展水平及未来愿景，为各个城市智能交通的迭代建设、招商引资和产业发展带来更多的机会和动力。

以智能交通世界大会为切入点，与被邀请城市市长联动，在城市治理、城市发展等方面展开更为密切的交流合作。

*仅限邀请者参加。

议题

市长级圆桌会议以“智能交通产业化发展、智能交通赋能大城市交通治理、智能交通助力苏州现代化产业体系的发展”为主要议题，围绕数字化和智能化支撑可负担和公平的综合交通系统建设、数字化和智能化提高交通系统的韧性和安全、智能交通系统的可持续发展等内容进行讨论。

全体会议（PL）

欢迎所有与会者参加开幕式、闭幕式以及全体会议。在全体会议上，专家就ITS关注问题将进行广泛讨论。

行政会议（ES）

在行政会议上，来自世界各地的行业高管、政府官员以及学界精英从其丰富的行业经验出发，分享他们对ITS所取得的成就、存在的问题以及面临的挑战等方面的看法。

特别兴趣会议（SIS）

应开发和部署智能交通系统专家组的要求，我们组织了一些互动式、量身定制的特别兴趣会议，提供了一个让我们聚焦特别感兴趣的话题的机会。

科学论文会议（SP）

这些会议是学术和科学精英人士的主论坛，旨在分享前沿领域的重大发现以及取得的重要成绩，并鼓励就该领域进行深入讨论。

技术论文会议（TS）

技术论文会议旨在为工程师和研究人员提供一个论坛，从而对ITS的技术、制度、业务以及经济各个方面进行全面广泛的讨论。

互动会议（IS）

互动会议通过海报演示或两段演示（口头陈述+海报演示）进行互动讨论。我们希望这种自由、面对面的对话可以进一步推动交通领域的创新。

论文主题

交通运输的可持续性和转型性发展

合作式自动化出行

智能和数字交通基础设施

综合交通运输系统

利用先进技术改进服务

智慧城市与交通运输业的未来发展方向

定价和交通服务需求管理

政策、标准和协调

大会议程

10 oct **16** Mon

	开幕式 闭幕式 全体会议	行政会议 (ES)	特别兴趣会议(SIS)				科学论文会议 (SP)		技术论文会议 (TS)			互动会议 (IS)
	B馆三楼 金鸡湖厅	会议室 1	会议室 2	会议室 3	会议室 4	会议室 5	会议室 6	会议室 7	会议室 8	会议室 9	会议室 10	会议室 11
09:30-11:15	开幕式 剪彩仪式											
12:30-14:00	午 餐											
14:00-15:30		ES01 畅想未来：智能出行与未来城市的愿景	SIS01 Navigating the Future: The Role of Electromobility and EV Charging Infrastructure	SIS02 C-V2X Empowering Safe and Connected Mobility	SIS03 Technology and Practice of Digital Twin in Transportation	SIS04 Intelligent Highway Technology and Operation Service	SP01 Climate Goals and Action Plans in Transport	SP02 ITS Technology for Traffic Safety	TS01 Mobility as a Service	TS02 V2X Communication Technologies and Cooperative Systems (1)	TS03 Cloud Computing, Edge Computing, Artificial Intelligence, Digital Twins, Blockchain in Transportation (1)	
15:30-16:00	茶 歇											
16:00-17:30		ES02 主动模式和ITS	SIS05 Green Transport and Green Energy	SIS06 Automatic Driving Test Technology and Demonstration Area Construction	SIS07 Global V2X Demonstration and Operation Service Providers: Present and Future	SIS51 Data Sharing to Improve Safety and Mobility in Connected Transportation System			TS04 Climate Goals and Action Plans in Transport	TS05 V2X Communication Technologies and Cooperative Systems (2)	TS06 Cloud Computing, Edge Computing, Artificial Intelligence, Digital Twins, Blockchain in Transportation (2)	
16:00-17:00	欢迎招待会											

展览展示 11:15-18:30

演示项目 11:15-18:30

技术考察 13:00-18:30

大会议程

10 oct **17** Tue

	开幕式 闭幕式 全体会议	行政会议 (ES)	特别兴趣会议(SIS)				科学论文会议 (SP)		技术论文会议 (TS)			互动会议 (IS)
	B馆三楼 金鸡湖厅	会议室 1	会议室 2	会议室 3	会议室 4	会议室 5	会议室 6	会议室 7	会议室 8	会议室 9	会议室 10	会议室 11
09:00-10:30	PL1 可持续智能综合交通											
10:30-11:00	茶歇											
11:00-12:30		ES03 智能基础设施，迈向更大规模	SIS09 Big Data and AI Empowering Sustainable Development of Urban Transportation	SIS10 Latest Progress of Engineering Application of V2X Networking Technology	SIS11 National ITS Activities in Japan - Future Transport Society with DX	SIS12 Development of Traffic Active Management under Intelligent Highway	SP05 Energy, Noise and Environmental Impacts	SP06 Multimodal Travel Information and Planning Services & Bike Sharing		TS08 V2X Communication Technologies and Cooperative Systems (3)	TS09 Artificial Intelligence & Crowdsourcing and Big Data Analytics	
12:30-14:00	午餐											
14:00-15:30		ES04 全球智能汽车发展	SIS13 Novel electric Micromobility and Mobility as a Service	SIS14 Current and Future Spectrum Strategy for Cooperative Automated Vehicle	SIS46 In Cabin Challenges: from Requirement to Homologation	SIS16 ICT-enabled the Development of ITS	SP07 Electromobility & Mobility as a Service	SP08 Multimodal Journey Planner & Intelligent Supply Chain and Logistics	TS10 Energy, Noise and Environmental Impacts	TS11 V2X Communication Technologies and Cooperative Systems (4)	TS12 Availability, Quality And Visualization Of Data & New Type Detectors And Sensors	IS01 **14:00-17:00** Sustainable and Transformational Development of Transport & Policy, Standards and Harmonization
15:30-16:00	茶歇											
16:00-17:30		ES05 公共交通脱碳	SIS17 Energy-based Green ITS Services for Smart City Mobility	SIS08 Visualizing Smart Mobilities Intelligent Transportation System in the New Capital City	SIS19 Using Transportation Big Data Intelligence to Serve Ground Transportation Economy Development	SIS20 Sustainable and Digital Development of Multimodal Transport Systems			TS13 Electromobility and EV Charging Infrastructure	TS14 Simulation and Modelling	TS15 Innovative Use of ETC Infrastructure for Other Applications	

展览展示 09:00-18:30 ------- **演示项目** 09:30-18:30 ------- **技术考察** 13:00-18:30

大会议程

10 oct 18 Wed

	开幕式 闭幕式 全体会议	行政会议 (ES)	特别兴趣会议(SIS)				科学论文会议 (SP)		技术论文会议 (TS)			互动会议 (IS)
	B馆三楼 金鸡湖厅	会议室 1	会议室 2	会议室 3	会议室 4	会议室 5	会议室 6	会议室 7	会议室 8	会议室 9	会议室 10	会议室 11
09:00-10:30	PL2 创新驱动：未来移动出行产											
10:30-11:00	茶 歇											
11:00-12:30		ES06 使用人工智能(AI)改善交通系统的运营和安全	SIS21 Challenges and Innovative Solutions from China and Europe – in Particular Suzhou/Shanghai and Berlin	SIS22 Promoting C-V2X Application Worldwide: Learning from China's Success	SIS23 Road Infrastructure Support for Automated Driving	SIS24 Insurtech and ITS: Transportation Risk Assessment and Management Solutions TRAMS (TRAMS)	SP11 Sensors and Perception Methods for Automated Vehicles	SP12 ITS in Airport Ground Operations & Waterway Transport Applications and 5G Solution	TS16 Mobility for Ageing Population	TS17 Pilots, Trials and Tests of Intelligent and Autonomous Vehicles	TS18 Transport Infrastructure Predictive Maintenance	
12:30-14:00	午 餐											
14:00-15:30		ES07 智慧港口与货运可持续发展	SIS25 Safety Measures for Mixed Traffic in Asia Pacific Region	SIS26 Accelerating Global C-V2X Deployment for Safer and Smarter Mobility	SIS27 Digital Infrastructure Practice for Serving Autonomous Driving Scenarios	SIS28 The Application of Digital Twins in the Intelligent Transportation	SP13 New Advances in V2V, V2I and V2X Technology	SP14 Cloud Computing, Edge Computing, AI, Digital Twins, Blockchain in Transportation & Cybersecurity and Data Security for Transport	TS19 Next Generation Human Machine Interface and Human Factors	TS20 ITS Policy and Strategy & Standardization		IS02 **14:00-17:00** Connected, Cooperative and Automated Mobility & Smart City
15:30-16:00	茶 歇											
16:00-17:30		ES08 利用第三维度提供新的出行服务（空中CCAM）	SIS29 Strategy of Practical Implementation of V2X Systems for Traffic Accident Avoidance	SIS30 Perception and Evaluation Technology of Intelligent Connected Vehicles		SIS32 Sensor Data Sharing in ITS - Status and Outlook	SP15 V2X Communication Technologies and Cooperative Systems	SP16 Real-time Information, Intelligent Traffic Management			TS24 ITS Technology for Traffic Safety (1)	

展览展示 09:00-18:30 ---- **演示项目** 09:30-18:30 ---- **技术考察** 13:00-18:30

大会议程

10 oct **19** Thu

	开幕式 闭幕式 全体会议	行政会议 (ES)	特别兴趣会议(SIS)				科学论文会议 (SP)		技术论文会议 (TS)			互动会议 (IS)
	B馆三楼 金鸡湖厅	会议室 1	会议室 2	会议室 3	会议室 4	会议室 5	会议室 6	会议室 7	会议室 8	会议室 9	会议室 10	会议室 11
09:00-10:30			**SIS33** Current Status of V2X in US and Europe	**SIS34** China Vehicle&city Integration Development Conference	**SIS35** Roadside Infrastructure Supported Location-based Services for Urban Connected Automated Mobility	**SIS36** Intelligent Connected Urban Transport and Smart Governance	**SP17** Simulation and Modelling	**SP18** Future Rail Experience	**TS25** Sensors and Perception Methods for Automated Vehicles (1)	**TS26** Data Collection and Fusion Technologies	**TS27** ITS Technology for Traffic Safety (2)	
10:30-11:00	茶 歇											
11:00-12:30			**SIS37** The Best Practice from Excellent Projects of Smart Transportation Innovation Competition in the Yangtze River Delta	**SIS38** Managing Mixed Traffic with Connected and Automated Vehicles: Challenges and Opportunities	**SIS39** Global Policy and Standardiza-tion for Cybersecurity Issues		**SP19** Impact, Cost-benefit and Risk Accessment for Automated Vehicles	**SP20** Predictive Network Management, Influencing Traveler Behavior, Citizens Engagement and Co-creation	**TS28** Sensors and Perception Methods for Automated Vehicles (2)		**TS30** ITS Technology for Traffic Safety (3)	
12:30-14:00	午 餐											
14:00-15:30		**ES09** 交通公平——规划多元化的劳动力队伍，满足所有人未来的出行需求		**SIS42** Urban Connected Automated Shuttle Systems and Services	**SIS43** Intelligent Roadway Infrastructure and Traffic Safety	**SIS44** Mobility on Demand: The Rise of Disruptive Technologies, Models, and Services	**SP21** Pilots, Trials and Tests of Intelligent and Autonomous Vehicles		**TS31** New Advances in V2V, V2I and V2X Technology		**TS33** Smart Parking&bicy-cle Sharing	**IS03** **14:00-17:00** Intelligent and Digital Transport Infrastructure & Integrated Transport Systems
15:30-16:00	茶 歇											
16:00-17:30		**ES10** 交通创新和个性化服务 - 公平、可达性和技术的交叉点	**SIS45** The Application Development of Specific Scenario, Policy and Regulation Prospects of Surface Autonomous Driving Technology		**SIS47** Developing Highway Systems for Connected & Autonomous Vehicles: Achieving Global Consensus	**SIS48** Global Commercial-ization Policy and Strategy for ITS	**SP23** Next Generation Traffic Mangement	**SP24** Data Analytics for Traffic Monitoring and Management	**TS34** Railway Applications and 5G Solution	**TS35** Next Generation Traffic Management	**TS36** Future Metropolitan Transport & Disruptive Innovations in Digital Transport	
18:30-20:00	Gala 晚宴											

展览展示 09:00-18:30 ------- **演示项目** 09:30-18:30 ------- **技术考察** 13:00-18:30

大会议程

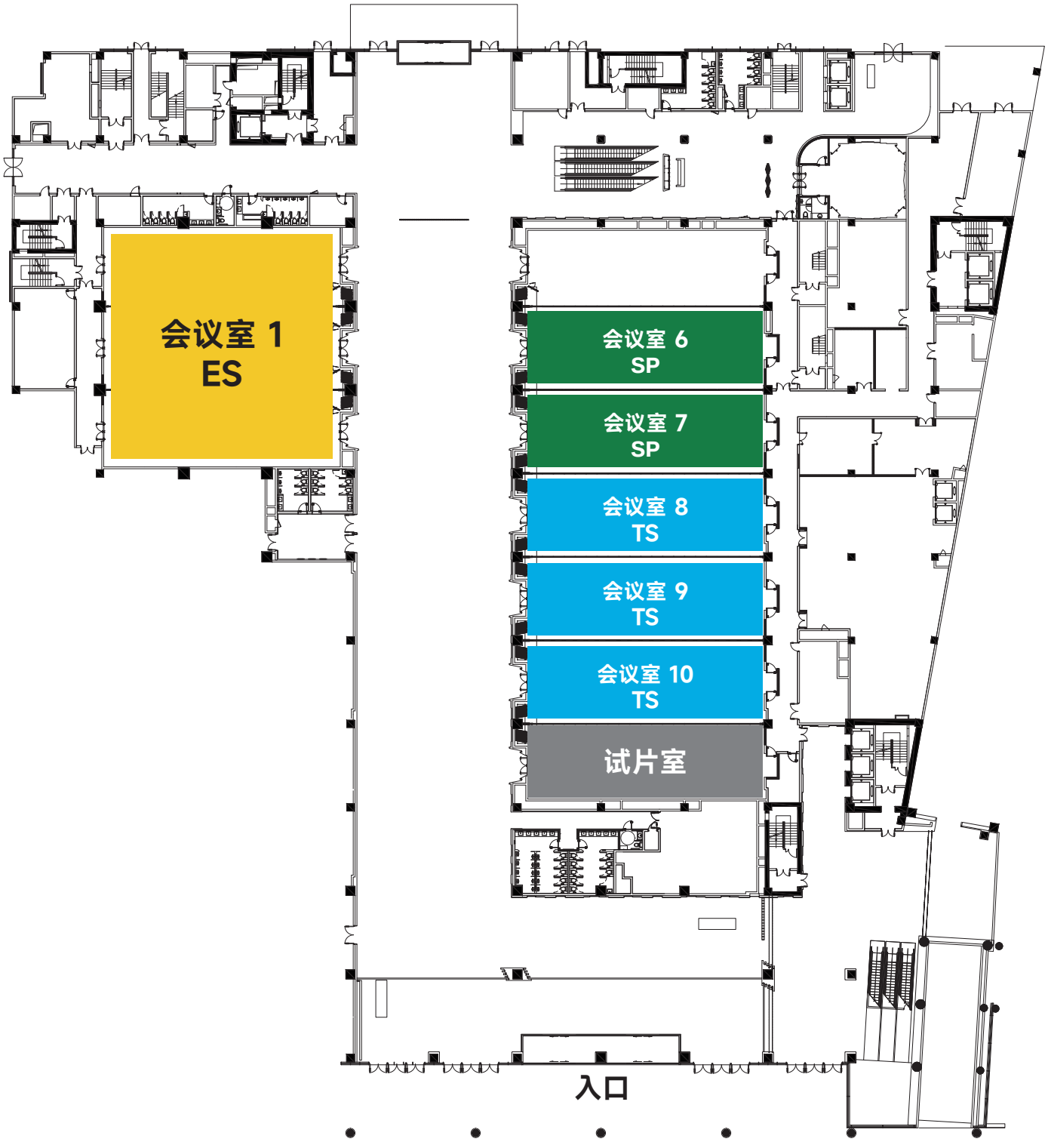
10 oct **20** Fri

	开幕式 闭幕式 全体会议	行政会议 (ES)	特别兴趣会议(SIS)				科学论文会议 (SP)		技术论文会议 (TS)			互动会议 (IS)
	B馆三楼 金鸡湖厅	会议室 1	会议室 2	会议室 3	会议室 4	会议室 5	会议室 6	会议室 7	会议室 8	会议室 9	会议室 10	会议室 11
09:00-10:30	PL3 数字化重塑交通和社会的未来											
10:30-11:00	茶歇											
11:00-12:30		ES11 进一步推进出行及服务（MaaS）中的统一票务	SIS49 How Can Intelligent Connected Vehicles Achieve Commercial Application of Vehicle-road Coordination?	SIS50 Exploration and Practice: Innovation of Smart Transportation to Drive Digital Transformation			SP25 Intelligent Emergency and Incident Management	TS37 Platooning	TS38 Multimodal Journey Planner & Smart and Green Vehicle Routing	TS39 ITS Infrastructure for Automated Vehicles	TS40 Data Analytics for Traffic Monitoring and Management	
12:30-14:00	午餐											
14:00-15:30		ES12 数字基础设施	SIS53 Smart Parking Assists the Construction of Smart Cities	SIS54 How Microsimulation Can Help to Foresee and Optimize the Impact of CAV on Urban Traffic			TS42 Technologies for Travel Demand Management			TS45 Policy and Regulation for Connected and Autonomous Vehicles		
15:30-16:00	茶歇											
16:00-17:30	闭幕式											

展览展示 09:00-15:30

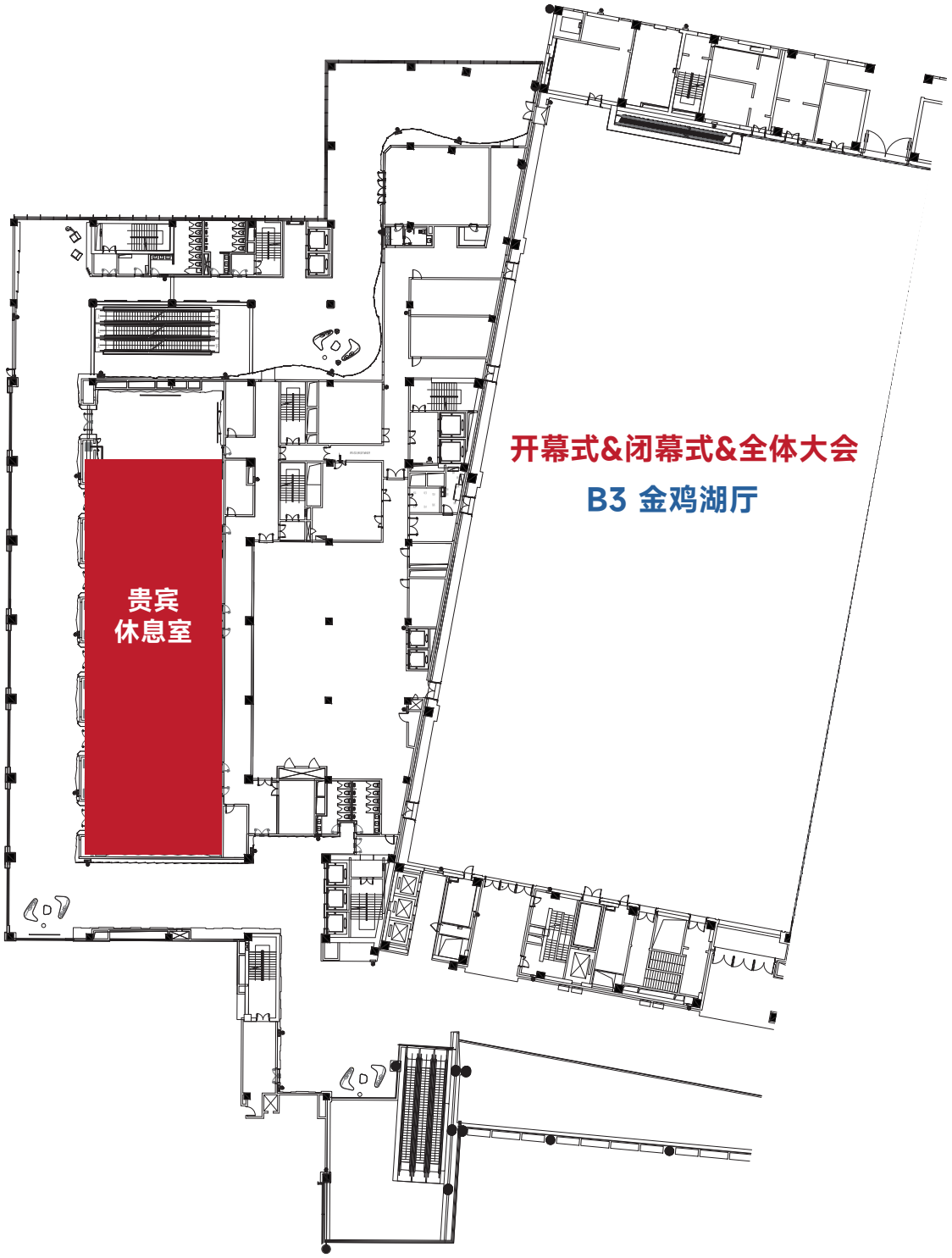
演示项目 09:30-12:30

A馆一楼



A馆二楼

A馆三楼



开幕式 & 剪彩仪式 & 闭幕式

开幕式 & 剪彩仪式

2023 年 10 月 16 日，星期一 | 09:30-11:15 | < 3 楼 金鸡湖厅 >

按照传统，主办方苏州市人民政府、江苏省交通运输厅、交通运输部公路科学研究院，以及联合主办方亚太、美洲和欧洲智能交通协会将会在开幕式致辞欢迎。开幕式上的庆祝活动包括颁发“名人堂 - 终身成就”奖、展示主办城市苏州魅力的娱乐活动，以及剪彩仪式。

闭幕式

2023 年 10 月 20 日，星期五 | 16:00-17:30 | < 3 楼 金鸡湖厅 >

闭幕式将总结使第 29 届 ITS 世界大会独树一帜的关键时刻。除此以外，还将包括主办方苏州市人民政府、江苏省交通运输厅、交通运输部公路科学研究院的闭幕主题演讲、最佳论文奖、第 30 届 ITS 世界大会（迪拜 2024）、第 31 届世界大会（2025 年亚特兰大）和第 32 届世界大会的演讲和邀请。

PL1 可持续智能综合交通

2023 年 10 月 17 日，星期二 | 09:00-10:30 | < 3 楼 金鸡湖厅 >

实现绿色、安全、便捷的可持续交通一直是各国的共同目标。智能技术是实现更清洁、更可持续的综合交通系统的重要工具。电动汽车、替代燃料、数字基础设施、智能综合交通枢纽以及多种交通方式的协同可以使我们的交通系统更快地脱碳、减少拥堵和减少空气污染。来自交通运输行业、信息行业、能源行业的官员、专家、企业家将齐聚一堂，将共同探讨以下内容：

- 各种智能综合交通解决方案如何配合、支持和部署？
- 我们已有什么政策或我们将有什么政策？
- 现有的挑战是什么？

主持人：
MR. PAN LIU, Executive Deputy Secretary, Southeast University, China

名人堂颁奖仪式

演讲者：
MR. MENGYONG WENG, Chairman, China Highway & Transportation Society/Former Vice Minister of Transport, China
MS. ROSALINDE VAN DER VLIES, Director of Clean Planet, DG RTD, European Commission, Belgium
MS. TILLY CHANG, Executive Director, San Francisco County Transportation Authority, United States
MR. JINQUAN ZHANG, President, Research Institute of Highway Ministry of Transport, China

PL2 创新驱动的未来交通和运输行业

2023 年 10 月 18 日，星期三 | 09:00-10:30 | < 3 楼 金鸡湖厅 >

以 5G 为代表的物联网、人工智能、机器学习、大数据以及新一代信息技术与交通的融合产生了众多创新，将推动车辆、出行行为、交通服务和管理的革命，必然带动新型交通产业的发展。本次会议将重点讨论以下几个方面：

- 全球已经实施和即将实施的新型智能出行服务有哪些？
- 未来智能交通系统的发展可能是怎样的？
- 一个成功的项目能给普通人和企业带来什么好处？
- 一个成功的项目如何推动交通转型和效率提升？

主持人：
MR. XIAOJING WANG, Chairman of China ITS Industry Alliance, China

名人堂颁奖仪式

演讲者：
MR. KEQIANG LI, Academician/Professor, The Chinese Academy of Engineering/Tsinghua University, China
DR. JÜRGEN UNSER, President of Audi China, Audi, Germany
MR. CHENWEI YAN, Senior Vice President, Qualcomm, United States
MR. NAOHIKO OGIHARA, Director-General of the Radio Department, Telecommunications Bureau, Ministry of Internal Affairs and Communications, Japan

PL3 数字化重塑交通和社会的未来

2023 年 10 月 20 日，星期五 | 09:00-10:30 | < 3 楼 金鸡湖厅 >

数字化、网络化、智能化正在塑造新的交通和社会形态。新一代数字化不仅仅将深刻影响交通运输的组织、过程控制和价值定义，推动人类进入"人、机、物融合的万物智能互联时代，同时也使欠发达国家和地区更有可能获得更多的数字基础设施，从而改善其交通运输条件。本次全体会议将重点讨论：

- 新一代数字产品和服务将如何应用于现实世界，给我们带来哪些机遇和挑战？
- 如何更好地实现以用户为中心的技术和服务，为人员和货物提供安全、无缝、智能、包容、弹性、气候中性和可持续的出行服务？
- 如何制定可持续发展的架构，如何协调各利益相关方？
- 如何制定支持未来发展的政策？
- 世界银行、亚洲开发银行、亚投行等组织对欠发达国家和地区数字基础设施发展的融资政策有何愿景，以便为这些地区的人民提供平等的机会享受更加绿色、可持续发展以及更智能、更安全的交通系统带来的好处？

主持人：

MR. BIN LI, Vice President, Research Institute of Highway Ministry of Transport, China

演讲者：

MR. HEPING SHI, Chairman, Jiangsu Provincial Comprehensive Transportation Society/Former Vice Governor of Jiangsu Provincial Government, China

DR. ANGELOS AMDITIS, ERTICO-ITS Europe Chairman, ICCS, Greece

MR. CHRISTIAN HAAS, Chief Executive Officer, UMovity, United States

MR. DENNIS WALSH, Chief Engineer Engineering & Technology, Department of Transport and Main Roads, Queensland, Australia

ES01 畅想未来：智能出行与未来城市的愿景

2023 年 10 月 16 日，星期一 | 14:00-15:30 | < 会议室 : 1（A108-A110）>

随着我们进入创新技术蓬勃发展的新交通时代，智能出行的未来变得越来越重要和引人注目。智能移动的远景不仅仅是可以自动驾驶的汽车。它将涵盖塑造移动出行未来的多种交通选择，包括智能高铁、智能船舶甚至飞行汽车。演讲者将分享他们对这些进步未来如何彻底改变交通、改变我们的城市和社区以及对整个社会的潜在影响的见解。本次会议旨在展望智能出行的未来，并探索更加互联、高效、可持续和创新的交通系统的多种可能性。

主持人：
MR. MIKE RUDGE, Director, ITS New Zealand, New Zealand

演讲者：
MR. BOB ZHANG, CTO/CEO, DiDi Chuxing/DiDi Autonomous, China
MR. ROBERT SYKORA, Director for Europe, Ohmio, Luxembourg
MR. SHIN YAMAMOTO, Dept. General Manager, Toyota Motor Cooperation, Japan
MR. FRED KALT, President, ITS Singapore, Singapore

ES02 主动模式和 ITS

2023 年 10 月 16 日，星期一 | 16:00-17:30 | < 会议室 : 1（A108-A110）>

交通运输的可持续和转型发展需要将自行车、步行和踏板车等主动出行方式与智能交通系统（ITS）相结合，以减少碳排放、改善道路安全并管理拥堵。 ITS 提供有关交通流量、停车和公共交通选项的实时数据，以优化交通管理并为行人和骑自行车的人提供更好的信息。

共享出行解决方案和智能停车系统等其他技术支持将城市空间归还给行人和自行车。平衡不同用户的需求并考虑对商业和居民的影响对于管理城市空间至关重要。

本次会议将探讨如何将智能交通系统和其他技术融入城市规划和管理，城市可以创造可靠有效且可持续的环境，从而造福所有人。

主持人 :
DR. NOBUYUKI OZAKI, Professor, Nagoya University, Japan

演讲者 :
MS. LISA SPELLMAN, Founding Director, VRU Safety Consortium, SAE, United States
MS. YOLANDA YOU, Head of Research & Advanced Engineering, Continental Corporation, China
MR. GONZALO ALCARAZ, Deputy Director General, International Road Federation (IRF), Switzerland
DR. RESDIANSYAH, Ph.D., Chief Urban Mobility, Nusantara National Capital City Authority/Vice President ITS Indonesia, Indonesia

ES03 智能基础设施，迈向更大规模

2023 年 10 月 17 日，星期二 | 11:00-12:30 | < 会议室 : 1（A108-A110）>

有许多证据表明，智能基础设施可以带来重要的交通效益，包括提高安全性、提高效率和增强用户体验。本场会议探讨的问题是，现在是否应该加大投资规模和智能基础设施。在提供了基于初始经验的证据之后，我们现在是否通过采取增量方法而不是大规模投资来限制智能基础设施可实现的全部价值？本次会议将讨论采用“登月”方法，通过大规模协调投资部署智能基础设施的优势，关注重点目标的实现。这将包括讨论临界质量的必要性以及创造具有国家和国际意义的成果和影响的愿望。

主持人 :
MR. CHRISTIAN HAAS, Chief Executive Officer, UMovity, United States

演讲者 :
MS. FULING SUN, Chief Expert, Zhongzi Huake Traffic Construction Technology Co.LTD, China
DR. MENG LU, Vice President, IEEE, The Netherlands
MR. LIN WANG, Director, National Center of ITS Engineering & Technology, Research Institute of Highway,MOT, China
TBD

ES04 全球智能汽车发展

2023 年 10 月 17 日，星期二 | 14:00-15:30 | < 会议室 : 1（A108-A110）>

随着更多创新技术的应用和用户需求的推动，汽车不再只是交通工具，而是融合多种工业技术的综合性产品。智能汽车产业链、供应链以及数据和信息安全方面的全球合作，对于为未来智能出行提供可持续发展的生态系统至关重要。本次会议旨在从政策法规、发展趋势、机遇与挑战等多个维度探讨这一问题。

主持人：
TS. MOHD SHARULNIZAM SARIP, Chief Technology Officer, MARii /Deputy President, ITS Malaysia, Malaysia

演讲者：
PROF. JIANQIANG WANG, Professor/Dean of School of Vehicle and Mobility, Tsinghua University, China
MR. MICHAEL HOFMANN, Executive Vice President/ Head of Audi China R&D, Audi China, Germany
MR. TIM LEINMUELLER, Senior Manager, Denso, Germany
MS. SUE BAI, Chief Engineer, Chief Data Business, Honda, United States
DR. CHARLES KARL, Chief Technology Leader/ Discipline Leader: Transport Systems, Mobility Futures, NTRO, Australia

ES05 公共交通脱碳

2023 年 10 月 17 日，星期二 | 16:00-17:30 | < 会议室 : 1（A108-A110）>

虽然运输行业的电气化和向替代燃料的转变被吹捧为减少温室气体排放的一种方式，但我们认识到，替代燃料的使用可能无法完全解决严重影响交通的其他问题。许多交通专业人士对电气化的描绘是，如果更多的私人车辆实现电气化，单靠这一点并不能解决我们所面临的诸如拥堵等严重的交通问题。然而，电气化和替代燃料的使用可以对环境产生积极影响。这与共享出行的使用增加相结合，可以改善城市生活。此外，如果电气化和替代燃料的使用扩展到车队，例如公共交通和其他市政机构运营的车队，那么城市交通的结果可能会更好。本次会议将探讨公共交通车队脱碳，并通过移动即服务 (MaaS) 等创新 ITS 工具来激励脱碳。

主持人

MR. ANDREW MEHAFFEY, Director NSW, Ohmio, Australia

演讲者

MR. ZHENNING DONG, Vice President, Autonavi, China
MR. YONGWEI ZHANG, Vice President/Secretary-General, China EV100, China
MR. MATTHIAS PFRIEM, Senior Product Manager, PTV Group, Germany
MR. YU YU ZHANG, Ph.D., Professor, CEE, University of Southern Florida, United States
MR. KEN KOIBUCHI, Chief Project Leader, Software Development Center, Toyota Motor Corporation, Japan

ES06 使用人工智能（AI）改善交通系统的运营和安全

2023 年 10 月 18 日星期三 | 11:00-12:30 | < 会议室 : 1（A108-A110）>

交通系统的运行会产生极其庞大的数据集。要想解释这些数据是非常困难的，我们应该转向人工智能（AI）技术来分析数据，并将其简化到操作员可以理解的程度。人工智能系统擅长识别可用于改善运营的模式和趋势。随着联网车辆开始在市场上大量出现，将地面系统数据与车辆数据合并的技术对于长期运营成功至关重要。本次会议将重点讨论在世界不同地区应用的人工智能技术。

主持人 :
DR. YONGYAO YANG, Chief Scientist/Professor, Zhejiang SUPCON Information Co. Ltd., China

演讲者 :
MR. XIANGBIN WU, Principal Research Scientist/Director, Intel Labs/Intelligent Edge System Lab of Intel Labs China, China
MR. LIN TAO, Chairman, Shenzhen Urban Transport Planning Center Co., Ltd, China
MR. LEI ZHANG, Vice President, Alibaba Cloud, China
MR. LUCA PAONE, Principal Product Manager for Mobility Network Management Solutions, PTV Group, Italy

ES07 智慧港口与货运可持续发展

2023 年 10 月 18 日星期三 | 14:00-15:30 | < 会议室 : 1（A108-A110）>

全球化背景下，新技术的出现和应用以及现代社会生产和需求的不断推动，极大地推动了港口和物流的智能化发展。港口对智能设备和解决方案的投资，大大提高了港口运营和货物装卸的效率，同时降低了成本。同时，这些智能化手段进一步减少碳排放，减少环境影响，适应未来市场需求，促进港口可持续发展。

1. 在此背景下，我们面临哪些机遇和挑战?
2. 大数据、虚拟现实、人工智能、无人物流等新技术将对港口产生哪些影响?
3. 我们需要寻求什么样的解决方案来迎接这些机遇并应对这些挑战?

主持人 :

MR. WEIFENG WANG, Professor, College of Civil and Transportation Engineering, Hohai University, China

演讲者 :

MR. XIAOBO LIU, Dean of School of Transportation and Logistics, Southwest Jiao Tong University, China
MR. LARS ANKE, Asia Chief Representative, HHLA Hamburger Hafen und Logistik AG, Germany
MR. WEIHUA LIU, Professor/ Head of Department, Tianjin University, China
MR. RUIBING TAN, Deputy General Manager, Jiangsu Port Group Co., Ltd., China

ES08 利用第三维度提供新的出行服务（ 空中 CCAM）

2023 年 10 月 18 日星期三 | 16:00-17:30 | < 会议室 : 1（A108-A110）>

此次会议面向城市空中交通开发商、集成商、服务提供商和监管机构，将调查不同地区城市空中交通研究、开发和部署的现状，涉及技术、可用服务、空域管理和监管方面。会议现场将展示新的 UAM 服务的商业模式，为向可持续交通的过渡提供帮助。

UAM 技术和服务有时候被视为货运和人员运输陆基 CCAM 解决方案的延伸。类似于 CCAM 社区讨论的问题，如系统抵御网络攻击（和敌对无人机）或远程操作等需要进行调查，但可能会给出不同的答案。会议最后，将提出与空域管理、远程操作和监管需求有关的问题。

主持人：
DR. MENG LU, Vice President, IEEE, The Netherlands

演讲者：
MR. DELI ZHAO, Founder & President, XPENG AEROHT, China
MR. RALF WILLENBROCK, Product Manager Logistics, Connected Mobility, T-Systems International, Germany
MS. SUZANNE MURTHA, Global Lead for Connected and Automated Technology, AECOM, United States
MS. LISA SPELLMAN, Founding Director, VRU Safety Consortium, SAE, United States

ES09 交通公平——规划多元化的劳动力队伍，满足所有人未来的出行需求

2023 年 10 月 19 日，星期四 | 14:00-15:30 | < 会议室 : 1（A108-A110）>

交通系统将人们与基本服务和机会联系起来，然而，该系统并不是由满足所有交通服务人员需求所需的声音所设计的。我们可以实施哪些实践和策略来确保运输劳动力的多样性，以便系统的规划、设计、建造和维护能够满足所有社区成员的需求？全球智能交通系统领导者采用了哪些创新方法来确保他们考虑到社区成员的不同体验，以及全球 ITS 领导者采用哪些创新方法来确保他们考虑社区成员的不同经验以及运输系统必须如何支持各种需求？ 对于女性、有色人种和劳动力中服务不足的社区来说，阻碍她们进步的现有障碍和挑战是什么？加入我们来解决这些问题，并听取世界各地大学专家学者的意见，讨论围绕该主题的现有研究以及致力于实现更公平劳动力的最佳实践等方面展开。

主持人：
MR. XIAOJING WANG, Chairman, China ITS Industry Alliance, China

演讲者：
MS. MENGKE CHEN, Associate General Manager, Tencent, China
DR. ROBERT KAHLENBERG, Senior Vice President, BMW, China
MR. YUSEN CHEN, Principal Scientist, Zhejiang Communication Investment Group Co.Ltd., China
MR. JAMES BULLEN, Product Manager Lead (MaaS), Transport for West Midlands, United Kingdom
PROF./DR./TECH./IR. DANANG PARIKESIT, MSc (Eng), Transport Planning Expert, Center for Transportation and Logistics Universitas Gajah Mada, Indonesia

ES10 交通创新和个性化服务 - 公平、可达性和技术的交叉点

2023 年 10 月 19 日，星期四 | 16:00-17:30 | < 会议室 : 1（A108-A110）>

人工智能、5G、云计算、大数据都是我们正在探索的融入交通系统的重要数字技术。技术为交通组织提供了新的工具，他们可以利用这些工具更好地了解社区面临的挑战的实质。技术还有助于提高与可持续发展相关的运营效率，并推动 ESG 向前发展。虽然组织不断创新服务，但在 ESG、可及性和公平性方面，个人和社区的需求同样重要。

道路使用者收费、拥堵收费或基于距离的收费是组织为实现公平和 ESG 目标而经常采用的手段。然而，个人需要通过安全、高效、经济的方式从 A 地移动到 B 地，这是交通系统设计的关键要素。

高管会议将展示实施和开发个性化交通服务的新技术、最佳实践、成功试点或真实案例，同时将 ESG、公平性和可达性纳入服务设计。会议期间将分享利用数字技术提高安全性、流动性、气候适应能力、基础设施投资、ESG 等的创新方法，供全球运输机构、服务提供商和解决方案提供商进行参考。

主持人 :

MR. HAJIME AMANO, Representative Director, Mobility Innovation Alliance Japan, Japan

演讲者 :

MR. CHUNLEI MENG, CEO, Beijing GOTEC ITS Technology Co., Ltd., China

PROF. YANYAN CHEN, Professor/Dean of College of Metropolitan Transportation, Beijing University of Technology, China

MR. ZHIGANG XU, Vice Dean of School of Information Engineering/Chang'an Scholar Distinguished Professor, Chang'an University, China

MS. SUZANNE MURTHA, Global Lead for Connected and Automated Technology, AECOM, United States

DR. YC CHANG, Managing Director, Far Eastern Electronic Toll Collection Co., Ltd. (FETC) / Former President & Current Chair of Board of Supervisor, ITS Taiwan, Chinese Taipei

ES11 进一步推进出行及服务（MaaS）中的统一票务

2023 年 10 月 20 日，星期五 | 11:00-12:30 | < 会议室 : 1（A108-A110）>

毫无疑问，无缝实现出行即服务（MaaS）符合运营商、服务提供商、城市和公民的最佳利益。统一票务是实现无缝出行的重要一步，但更广泛的部署将面临巨大障碍。当今的票务流程分布在各个孤立的岛屿上，这些岛屿上有不同的支付服务和各种技术（信用卡 / 借记卡、专用智能卡）。若要取得成功，需要采用集成的多部门票务方法及其后台流程。

该会议将确定进一步部署 MaaS 服务统一票务的障碍，并将来自运输、服务和金融部门的利益相关者聚集在一起，他们对成功推出出行及服务至关重要。会议还将介绍世界各地开放封闭市场的最佳实践，讨论监管挑战和正在准备的解决方案（例如欧盟委员会的多模式数字移动服务（MDMS））以及商业模式。

主持人 :
MR. JOHN PADDINGTON, Senior Manager, Innovation & Deployment, ERTICO-ITS Europe, Belgium

演讲者 :
MR. FANG HE, Associate Professor, Tsinghua University, China
MR. MARK COLLINS, Head of Future Transport, Transport for West Midlands, United Kingdom
MR. MOUSA MOHAMED AL RAEISY, Director, Technology Strategy & Governance Department, Road Transport Authority, United Arab Emirates
MR. MIKE RUDGE, Director, ITS New Zealand, New Zealand

ES12 数字基础设施

2023 年 10 月 20 日，星期五 | 14:00-15:30 | < 会议室 : 1（A108-A110）>

随着智能交通系统（ITS）的发展，交通运输业正在经历转型。伴随这种变化，需要建设满足现代城市和社会需求的智能和数字交通基础设施。

然而，为了使数字基础设施具有包容性和可持续性，必须解决互操作性、标准化、治理和监管等问题。

本次高管会议旨在为专家、从业者和政策制定者提供一个平台，探讨建设包容性和可持续的数字交通基础设施的最新趋势、挑战和机遇。

会议将讨论的关键主题包括交通基础设施的先进技术，如人工智能、物联网、数据分析和数字孪生、卫星技术和持续连接、融资和商业模式，以及数字交通基础设施的互操作性、标准化、治理和监管的重要性。

主持人：

MR. TIM LEINMUELLER, Senior Manager, Denso, Germany

演讲者：

MR. XIAOJING WANG, Chairman, China ITS Industry Alliance, China
MR. WEIDONG YANG, Chairman of the Board, China Design Group, China
MR. CHRISTOPH SCHROTH, VP Digital Product Strategy, BMW Group, Germany
MR. DATUK ISMAIL MD SALLEH, President, ITS Malaysia, Malaysia
MR. SUKU PHULL, Technical expert, Traffic and Technology Division, Department for Transport, United Kingdom

SIS01 NAVIGATING THE FUTURE: THE ROLE OF ELECTROMOBILITY AND EV CHARGING INFRASTRUCTURE

2023 年 10 月 16 日，星期一 | 14:00-15:30 | < 会议室 : 2（A214-A215） >

As we face the challenges of climate change and urban air pollution, the promotion of electromobility and EV charging infrastructure has become increasingly essential. Electromobility offers a viable and sustainable solution to reduce greenhouse gas emissions, improve air quality, and foster energy security. Under these circumstances, this session will discuss the transformative potential of electromobility and the critical role of EV charging infrastructure in shaping transportation systems. In this session, multiple topics to be covered by presenters, including current trends in EV adoption, integration of electromobility with existing transportation systems, planning, operation and management of EV charging infrastructure and mobility services, and strategies for interaction between EV infrastructure and power grids. The session is intended for researchers, practitioners, policymakers, and others interested in electromobility and the evolution of EV charging infrastructure.

组织者 :
ENJIAN YAO, Beijing Jiaotong University, China

主持人 :
RONGSHENG CHEN, Beijing Jiaotong University, China

演讲者 :
JUNICHI HIROSE, Highway Industry Development Organization, Japan
JUNSHENG FU, Zenseact, Sweden
LONG PAN, Beijing Jiaotong University, China
RUIQING GUO, NIO Co.,Ltd, China
JOHN PADDINGTON, ERTICO, Belgium

SIS02 C-V2X EMPOWERING SAFE AND CONNECTED MOBILITY

2023 年 10 月 16 日星期一 | 14:00-15:30 | < 会议室 : 3（A212-A213） >

C-V2X (Cellular Vehicle-to-Everything) technology and its applications cover collaborative innovation of Information and Communication Technology (ICT), automobile, and transportation industries to trigger cross-industry transformation. Become an important driving force, C-V2X will empower the innovative development of Intelligent Connected Vehicles and Cooperative Vehicle Infrastructure Systems for Automated Driving and Intelligent Transportation Systems (ITS). Promoted by the related standardization, extensive testing and verification, and commercial projects, C-V2X is mature and being deployed globally, and will play a pivotal role for industrial innovations and changes of social operation modes. C-V2X can reduce and defuse the risk of collisions and ensure the safety of life and property, and show the advantages of improving the efficiency of the transportation networks, energy conservation and emission. This session will introduce the latest advances empowered by C-V2X in connected vehicle, automated mobility, and cooperative interacting among traffic participants. The unique insight of the implementation and practice will be shared for technology, standardization, industrialization, business, and regulation.
This session will include the following key information:
- The status quo of the C-V2X technology, standardization, and industrialization.
- The global collaboration of C-V2X for the wide-spread implementation and the (pre-)commercial deployment.

组织者 :
JINLING HU, China Information and Communication Technology Group Connected and Intelligent Technologies Co., Ltd, China

主持人 :
JINLING HU, China Information and Communication Technology Group Connected and Intelligent Technologies Co., Ltd, China

演讲者 :
MAXIME FLAMENT, 5GAA, Germany
SHANZHI CHEN, China Information and Communication Technology Group Co., Ltd., China
KONGJIAN QIN, CATARC, China
YAN LI, Qualcomm, China
MATHIAS REIMANN, BOSCH, Germany
BHARGAVI SRINIVASAN, Spirent, France

SIS03 TECHNOLOGY AND PRACTICE OF DIGITAL TWIN IN TRANSPORTATION

2023 年 10 月 16 日，星期一 | 14:00-15:30 | < 会议室 : 4（A210-A211） >

The digital twin (DT) is an emerging technology that builds on the convergence of computer science, mathematics and engineering, and increasingly being applied in the field of transportation recent years. Based on the related research and practice findings, conclusions, and recommendations, this session will present and discuss the current application and technological development of transportation DT, including the roles of data-driven learning and computational modeling in achieving robust and reliable digital twins from the aspect of methodologies, the value of transportation DT, key challenges and opportunities in the research, development, and application of DT development and application advancements from the perspective of progress.

组织者 :
HONGXU YANG, BWTON Technology Co, Ltd, China

主持人 :
HAODE LIU，China Academy of Transportation Sciences，China

演讲者 :
JINYUAN CHOI，BWTON Technology Co., Ltd，Republic of Korea
JINLONG LI，Beijing Urban Construction Design & Development Group Co., Ltd，China
QIYUAN LIU, Shanghai Jida Transportation Technology Co., Ltd, China
KUIFENG SU，Shenzhen Tencent Computer System Co., Ltd，China
HUI ZHAO, Beijing Municipal Engineering Design Institute Co., Ltd,China

SIS04 INTELLIGENT HIGHWAY TECHNOLOGY AND OPERATION SERVICE

2023 年 10 月 16 日，星期一 | 14:00-15:30 | < 会议室 : 5（A203-A204） >

It is a professional conference in the field of intelligent transportation, aimed at exploring the development trends, technological innovations, and practical applications of intelligent highway toll technology and operational services. Industry experts and scholars are invited to give keynote speeches on the intelligent development trends, technological innovations, and practical applications of highway toll technology and operational services, sharing the latest research results and practical experience. The forum covers multiple fields and topics, with the aim of promoting the intelligent development of highway toll technology and operational services and fostering industry cooperation and innovation.

组织者 :
GANG WANG, Highway Monitoring and Emergency Response Center, China

主持人 :
XU LIU，Highway Monitoring and Emergency Response Center, Ministry of Transport of the P.R.C，China

演讲者 :
DER HORNG LEE，Zhejiang University, Singapore
BIN LI, Guangdong E-Serve CO., China
HONG ZHOU, JiangSu Communications Holding Digital Transportation Research Institute Co.,Ltd., China
TBD

SIS05 GREEN TRANSPORT AND GREEN ENERGY

2023 年 10 月 16 日，星期一 | 16:00-17:30 | < 会议室 : 2（A214-A215） >

Technology has promoted the rapid development of intelligent transport, providing flexible, safe, comfortable and convenient travel services for human beings. Green energy provides a clean, eco-friendly, healthy and sustainable living environment for human development; Energize green transport with green energy, so that more green energy can be transported, and make our world more environmentally friendly. Share a peaceful, healthy and intelligent future life. We will discuss the following topics: How to integrate transportation infrastructure and electric vehicle charging? How to integrate optical storage and charging technology with parking lot and charging station? What kind of charging facilities are needed for the highway? How to coordinate the layout of urban charging piles with urban traffic? Impact of energy policy on transportation. etc. We're looking forward to more experts paying attention to these topics and making suggestions for development together.

组织者 :
JINBIN ZHAO, Shanghai Electric Power University, China

主持人 :
CHUN HE, Xuchang KETOP Testing Research Institute Co.,Ltd, China

演讲者 :
YONGDONG LIU, China Electricity Council, China
YANHUI XIA, SUNGROW Co., Ltd., China
QIAN ZHANG, Chongqing University, China
HUIYU MIAO, State Grid Jiangsu Electric Power Research Institute, China

SIS06 AUTOMATIC DRIVING TEST TECHNOLOGY AND DEMONSTRATION AREA CONSTRUCTION

2023 年 10 月 16 日星期一 | 16:00-17:30 | < 会议室 : 3（A212-A213） >

Automated driving has become China's new calling card to showcase the country's technological strength, innovation capability and industry support level. In 2022, China's autonomous driving industry ushered in intensive policy support and the first legislative breakthrough. The macro policy guidance from the Ministry of Transportation and other central ministries and commissions, as well as the management and implementation rules of more than 40 provincial and municipal local governments, provide clearer policy support and legal protection for autonomous driving technology innovation and industrial synergy, especially for key issues such as vehicle requirements, operator qualifications, road applicability, personnel requirements, safety assurance and supervision and management, promoting the healthy and rapid development of autonomous driving-related industries.The Ministry of Transport also carried out demonstration construction of automatic driving landing application and industrialization in Beijing, Suzhou and other cities.This Special Interest Sessions will invite relevant government agencies and enterprises from Beijing, Suzhou, Lanzhou and other places to introduce the latest construction and technology application of the demonstration area, and will also discuss the advanced technology of automatic driving test and automatic driving information security test.

组织者 :
JISHENG ZHANG, Research Institute of Highway R&D Center of Transport Industry of Autonomous Driving, China

主持人 :
JISHENG ZHANG, Research Institute of Highway R&D Center of Transport Industry of Autonomous Driving, China

演讲者 :
NING SUN, Beijing Connected and Autonomous Vehicles Technology Co., Ltd, China
JINQUAN HOU, Gansu Intelligent Transportation and Intelligent Connected Vehicle Comprehensive Test and Application Demonstration Base, China
SHUXUN NING, Heilongjiang Provincial Department of Transportation, China
JISHENG ZHANG, RIOH R&D Center of Transport Industry of Autonomous Driving, China
XIAONAN QU，DiDi Chuxing Ridesharing Business Group，China
PENG HE, Baidu Intelligent Transportation Business Unit, China

SIS07 GLOBAL V2X DEMONSTRATION AND OPERATION SERVICE PROVIDERS: PRESENT AND FUTURE

2023 年 10 月 16 日星期一 | 16:00-17:30 | < 会议室 : 4（A210-A211） >

The session is jointly organized by Vanguard Investment, Wuhan University of Technology, and iSmartWays. It will focus on the theme of "Current and Future Commercialization of V2X Demonstration Operators Worldwide", inviting well-known leaders of demonstration zones both domestically and internationally to explore the planning, construction, and operation of demonstration zones from an international perspective.

组织者 :
HAONAN LIU, Hubei ITS Technology Innovation Platform, China

主持人 :
HUI ZHANG, Wuhan University of Technology, China

演讲者 :
JIALI WANG, Pioneer (Suzhou) Digital Industry Investment Co., China
WALTER ESPONIA, iSmart Ways USA Signed, United States
DONGZHE SU, ASTRI, China
SHUO YANG, Liuzhou Dongke Smart City Investment and Development Co., China

SIS08 VISUALIZING SMART MOBILITIES INTELLIGENT TRANSPORTATION SYSTEM IN THE NEW CAPITAL CITY

2023 年 10 月 17 日星期二 | 16:00-17:30 | < 会议室 : 3（A212-A213） >

This session will explore the latest developments of intelligent transportation system infrastructure in Nusantara, the future capital city of Indonesia. The session will cover various subtopics about the intelligent transportation system, the principles of Nusantara's mobility development, the multi-utility tunnel infrastructure, the intelligent transportation command center, and the wide-range implementation of the IoT and electric vehicle ecosystem in Nusantara. Furthermore, the subtopics also would like to discuss the pioneering achievement of the development of safe and proper urban air mobility.
The session will also take a focused look at the main components of the intelligent transportation system planned, the Advanced Public Transportation System, Advanced Traffic Management System, Advanced Parking Management System, Autonomous Driving System, Incident Management System, Commercial Vehicle Operation System. Electronic Payment System, and Advanced Traveller Information System. Furthermore, the development would be done with the planning and implementation of the electric vehicle ecosystem and the use of IoT and 5G connectivity. With this scope being in the master plan, Nusantara aims to introduce the vision of smart mobility to the world. Thus, fostering an impactful and mutually beneficial collaboration.
This session will shows a thorough review of the most recent data on the creation of intelligent and digital transport infrastructure, as well as how these developments are being put into practice in Indonesia's new capital city of Nusantara. We will talk about how these technologies can be utilized to increase transportation effectiveness, security, and sustainability as well as the opportunities and challenges of developing a genuinely smart mobility system.

组织者 :
BAMBANG SUSANTONO, Otorita Ibu Kota Nusantara (Nusantara National Capital Authority), Indonesia

主持人 :
TBD, Otorita Ibu Kota Nusantara (Nusantara National Capital Authority), Indonesia

演讲者 :
MOHAMMED ALI BERAWI M.ENG.SC, Otorita Ibu Kota Nusantara (Nusantara National Capital Authority), Indonesia
IR. RESDIANSYAH ST., MT., PH.D, Otorita Ibu Kota Nusantara (Nusantara National Capital Authority), Indonesia
WILLIAM P SABANDAR, Intelligent Transport Systems Indonesia, Indonesia
TBD, Otorita Ibu Kota Nusantara (Nusantara National Capital Authority), Indonesia

SIS09 BIG DATA AND AL EMPOWERING SUSTAINABLE DEVELOPMENT OF URBAN TRANSPORTATION

2023 年 10 月 17 日，星期二 | 11:00-12:30 | < 会议室 : 2（A214-A215） >

The world is undergoing the largest wave of urban growth in its history, and by 2030, over 60 percent of the population will live in cities. This trend is largely driven by the developing country economies, which initially relied on low-wage labor and capital investment in resource-intensive industries. However, as developing countries face challenges related to socio-economic development and environmental issues, it is crucial to discuss key areas such as decoupling economic and sustainable development, urban transport demand growth and decarbonization, and opportunities and challenges for intelligent transport techniques on greener transition.

Rapid urbanization and population growth have put immense pressure on urban transport systems in developing countries. Therefore, there is a need for efficient, affordable, and sustainable transport solutions. To address this need, a conference will explore the latest developments in intelligent transport techniques and their potential to improve urban mobility while reducing congestion, pollution, and greenhouse gas emissions. The conference will feature keynote speeches from leading experts in the field of intelligent and sustainable transport, and panel discussions will focus on topics such as the role of public-private partnerships in advancing ITS implementation, the use of big data and artificial intelligence to optimize traffic flow, the integration of electric vehicles into urban transport networks, autonomous vehicle and share mobility, and the development of smart city infrastructure to support sustainable mobility.

The event aims to provide insights and lessons learned that are in line with future sustainable and urban transport development trends, including those related to intelligent technologies. It will benefit from aspects of politics, academia, and industry and will also include voices from developed countries and regions to provide valuable insights for identifying sustainable urban development by combining developing countries' needs with advanced urban transport development concepts.

Also, through integrated efforts of municipal governments at all levels and with other municipal systems and planning practices, the activity aims to help municipalities achieve development plan development, regardless of their previous experience with similar processes. The event will identify key players and roles in development, conduct analysis at each stage of plan design and implementation through real-world examples, and provide case studies and recommendations for success.

Ultimately, the event aims to provide lessons learned and policy insights for achieving sustainable development and green, low-carbon growth through the exchange of perspectives from government representatives, academia, international agencies, and other participants, including those working in the field of urban transport and intelligent technologies.

组织者 :
YANYAN CHEN, Beijing University of Technology, China

主持人 :
YANYAN CHEN, Beijing University of Technology, China

演讲者 :
YANG JIANG, China Sustainable Transportation Center, China.
HUI ZHAO, Beijing General Municipal Engineering Design & Research Institute Co., Ltd, China
WEINAN HE, Beijing Transport Institute, China
LAN WU, China Design Group, China
SHAHD M.K.OMAR, Beijing University Of Technology, Palestine

SIS10 LATEST PROGRESS OF ENGINEERING APPLICATION OF V2X NETWORKING TECHNOLOGY

2023 年 10 月 17 日，星期二 | 11:00-12:30 | < 会议室 : 3（A212-A213） >

1. Innovation in traffic flow monitoring and management using V2X technology and exploration of next-generation traffic management system in this region.
2. How vehicle manufacturers/collaborative intelligent driving solution providers use V2X pilot zone project environment to realize engineering verification of key technologies and outlook for V2X enabling intelligent driving.
3. How V2X system service providers realize engineering application of V2X technology in V2X pilot zone project construction.

组织者 :
LEI YANG, China-Europe Alumni Automotive Industry Association CAAA, China

主持人 :
PIN ZHOU, Executive Vice Chairman of CEIBS Alumni Auto Association, China

演讲者 :
YUMING GE, China Academy of Information and Communications Technology, China
XIAOGUANG YANG, Tongji University, China
ANG HU, The University of Tokyo, China
ICHIJO FUTAKAWA, Nissan Mobility Service Co., Ltd, China

SIS11 NATIONAL ITS ACTIVITIES IN JAPAN - FUTURE TRANSPORT SOCIETY WITH DX

2023 年 10 月 17 日，星期二 | 11:00-12:30 | < 会议室 : 4（A210-A211） >

This session will introduce one-stop introductions on various ITS activities conducted by Japanese Government including Digital Agency (as a moderator), National Police Agency (NPA), Ministry of Internal Affairs and Communications (MIC), Ministry of Economy, Trade and Industry (METI), Ministry of Land, Infrastructure, Transport and Tourism (MLIT) and Cabinet Office. From the 27th ITS World Congress 2019 Singapore till the 29th Congress 2022 Los Angeles, the sessions were held under the name of "SIP-adus" that introduced overall activities in Japan on automated driving for universal services (adus). Due to the end of the 2nd period of "SIP-adus" of 5 year-program in FY2022, and the establishment of a new "Digital Agency" in 2022, Japan started a new progress on ITS with a new plan "Future Transport Society with DX" which was successor of Governmental "Public-Private Concept and Roadmap on ITS". This session will give you the latest policies, regulations, technologies, plans and activities of Japanese governmental ITS.

组织者 :

TAKEHIKO BARADA, ITS Japan, Japan

主持人 :

TAKEHIKO BARADA, ITS Japan, Japan

演讲者 :

HISAAKI IKEUCHI, National Police Agency, Japan
TAKANORI MASHIKO, Ministry of Internal Affairs and Communicatons, Japan
YUTA KYOTO, Ministry of Economy, Trade and Industry, Japan
MASAMITSU WAGA, Road Bureau, Ministry of Land, Infrastructure, Transport and Tourism, Japan
KENICHI HAYASHI, Road Transport Bureau, Ministry of Land, Infrastructure, Transport and Tourism, Japan
HARUO ISHIDA, Cabinet Office, Japan
KENTARO ASAYAMA, Digital Agency, Japan

SIS12 DEVELOPMENT OF TRAFFIC ACTIVE MANAGEMENT UNDER INTELLIGENT HIGHWAY

2023 年 10 月 17 日，星期二 | 11:00-12:30 | < 会议室 : 5（A203-A204） >

With the development of new technologies, intelligent highway traffic management will lead to the transformation of active management, which has greatly attracted more attention in the ITS. This special interest section invites scholars and experts, from the academic and industrial, to discuss the recent development of application scenarios and requirements, research achievement, potential prospect, etc. Specifically, this session focuses on topics such as the separated line between passenger and freight transportation, multi-stage speed limit control, etc., and discusses the development tendency of active traffic management through promoting intelligent highways.

组织者 :
JIAN GAO, Research Institute of Highway Ministry of Transport, China

主持人 :
JIAN GAO, Research Institute of Highway Ministry of Transport, China

演讲者 :
YI HE, Wuhan University of Technology, China
JIAN GAO, Research Institute of Highway Ministry of Transport, China
WEIXING HONG, Nanjing Zhixing Information Technology CO., Ltd, China
JIANSHAN ZHOU, Beihang University, China

SIS13 NOVEL ELECTRIC MICROMOBILITY AND MOBILITY AS A SERVICE

2023 年 10 月 17 日，星期二 | 14:00-15:30 | < 会议室 : 2（A214-A215） >

Often when discussing infrastructure considerations for electric vehicles, the focus is on charging technologies for buses, cars, and trucks, but what about the requirements for smaller vehicles? How can they support Mobility as a Service?
This session will focus on the needs of micromobility vehicles such as e-bikes, e-scooters, e-cargo bikes, and e-tuk tuks. These vehicles can vary considerably in capability, size, weight, capacity, and speed. The panel will discuss how these vehicles can meet different use cases, particularly for small traders, women and families, who are often neglected in discussions on mobility. The differing needs for leisure, commuting and freight trips will also be considered.
Including micromobility in transportation, Smart City, Vision Zero, and other municipal planning initiatives can help ensure that the benefits and needs of all forms of mobility are given equal opportunity to realize maximum potential. These vehicles can play a vital part in the shift to low carbon economies. The right technology and infrastructure can help enable these vehicles; our panellists will discuss if there is a need for policy, standardisation and regulation. Exploring areas such as data sharing, apps, charging, battery swapping, safety, and accessibility.
Our Panelists have global experience and provide real life experiences in what is happening in Asia, Africa, the Americas, and Europe in both the private and public sectors. This reflects that each region has differing needs and that a solution in one region might not be suitable for all without adaptation.

组织者 :
JOHN PADDINGTON, ERTICO, Belgium

主持人 :
JOHN PADDINGTON, ERTICO, Belgium

演讲者 :
RALF WILLENBROCK, T-Systems, Germany
LISA SPELLMAN, SAE International, United States
SONG SU, WRI, China
JAMES BULLEN, Transport for West Midlands, United Kingdom
GELI LATSA, ICCS, Greece

SIS14 CURRENT AND FUTURE SPECTRUM STRATEGY FOR COOPERATIVE AUTOMATED VEHICLE

2023 年 10 月 17 日，星期二 | 14:00-15:30 | < 会议室 : 3（A212-A213） >

In recent years, R&D and demonstrations of the Cooperative Automated Vehicle (CAV) have been actively conducted in order to realize more advanced driving safety support and automated driving. As the future introduction and spread of CAV progresses, international coordination and international harmonization of radio spectrum are expected to become even more important.

组织者 :
HIROFUMI KAKEGAWA，Ministry of Internal Affairs and Communications，Japan

主持人 :
TAKESHI YAMAMOTO，ITS Info-communication Forum，Japan

演讲者 :
HIROFUMI KAKEGAWA，Ministry of Internal Affairs and Communications，Japan
NIELS PETER SKOV ANDERSEN，CAR 2 CAR Communication Consortium，Denmark
RAM SHALLOM，Autotalks Ltd.，Israel
SUZANNE MURTHA, AECOM, United States

SIS16 ICT-ENABLED THE DEVELOPMENT OF ITS

2023 年 10 月 17 日，星期二 | 14:00-15:30 | < 会议室 : 5（A203-A204） >

The global technological revolution and industrial change are flourishing, the information and communication technologies (ICT) such as 5G, C-V2X, artificial intelligence, and edge computing are evolving rapidly and iteratively, positively affecting and changing the daily lives of users and the production methods of related enterprises. At the same time, the integration of ICT with the vehicle, energy and transportation sectors has accelerated, with the development of digital, intelligent and connected vehicles and transportation becoming the trend in the industry. Information exchange and data sharing based on the structure of pedestrian-vehicle-road-cloud supports the realization of complex environment awareness, intelligent decision-making, collaborative control and other functions, creating a safer, more efficient, comfortable and energy-efficient transport environment, and improving comprehensive traffic management and emergency response capabilities. This special interest meeting is planned to invite cross-industry and academic experts in ICT, ITS (Intelligent Transportation System), and ICV (Intelligent Connected Vehicle) to explore the enabling role of the next-generation ICT for ITS from the perspective of practical application needs such as traffic optimization and traffic management capacity enhancement. The conference will also provide an overview of the critical challenges faced by cross-industry integration and innovation, jointly envisioning future development proposals and feasible implementation paths.

组织者 :
YUMING GE, China Academy of Information and Communications Technology, China

主持人 :
YUMING GE, China Academy of Information and Communications Technology, China

演讲者 :
MAXIME FLAMENT, 5GAA, Germany
DAXIN TIAN, Beihang University, China
JINLING HU, China Information and Communication Technology Intelligent and Connected, China
JIN WANG, Zhongzhixing, China
BINGYAN YU, China Academy of Information and Communications Technology, China
JOHN KENNEY, Toyota Motor North America InfoTech Labs, United States

SIS17 ENERGY-BASED GREEN ITS SERVICES FOR SMART CITY MOBILITY

2023 年 10 月 17 日，星期二 | 16:00-17:30 | < 会议室 : 2（A214-A215）>

The London Declaration, “ISO’s Climate Commitment”, which has been approved by ISO members in 2021, representing 165 countries from around the world, reads: “ISO hereby commits to work with its members, stakeholders and partners to ensure that ISO International Standards and publications accelerate the successful achievement of the Paris Agreement, the United Nations Sustainable Development Goals and the United Nations Call for Action on Adaptation and Resilience.”Methodology and standardization need to be discussed to promote eco and/or green mobility services for both city operators and peoples living in the city for managing carbon-free and energy related mobility. In ISO/TC204, the new SWG17.2 is developing a series of international standards which define energy-based green ITS services providing urban transport management and smart city mobility applications on nomadic & mobile devices by means of not only measuring energy consumption and CO_2 emissions but also providing information to users on energy capacity in transportation sectors in the smart city.

组织者 :
YOUNG-JUN MOON, Korea Advanced Institute of Science & Technology (KAIST), Republic of Korea

主持人 :
RALF WILLENBROCK, ERTICO Supervisory Board, Germany

演讲者 :
RALF WILLENBROCK, ERTICO Supervisory Board, Germany
ZHIJUN CHEN, Wuhan University of Technology, China
SEUNGHYEOK BAEK，KERI，Republic of Korea
YOUNG-JUN MOON, KAIST, Republic of Korea

SIS19 USING TRANSPORTATION BIG DATA INTELLIGENCE TO SERVE GROUND TRANSPORTATION ECONOMY DEVELOPMENT

2023 年 10 月 17 日，星期二 | 16:00-17:30 | < 会议室 : 4（A210-A211） >

Transportation big data has been widely collected, gathered, governed and applied in various traffic management and services. With the interconnection and application of massive data related to transportation as the core, data resources gradually integrate into industrial innovation, which forms new economic forms, such as corridor economy, hub economy, digital economy, etc. Compared with other transportation production factors, data resources have the capabilities of replicability, shareability, unlimited growth and supply, breaking the constraint of limited supply of natural resources on growth, providing the foundation and possibility for sustainable growth and development, and becoming the key production factor and important resource for the development of digital economy.

In practice, many enterprises and manufacturers have carried out the construction and application research of transportation big data, but there still exist big gaps between the construction effect and degree, and the future trend needs more attention, understanding and participation from various ITS industry professionals and stakeholders.

This session invites participants to discuss how transportation big data can be applied to the field of transportation economy, and what transportation economy stakeholders can do to promote and ensure its healthy adoption. The session will first emphasize the unique technical characteristics of transportation big data in the context of transportation, as well as some best practices in the transportation industry in using big data. Then, it will reveal various needs brought by transportation big data for transportation and economic development, such as standardization, labor force development and policy making. Finally, panel members will identify other necessary activities to meet the growing demand of using transportation big data to improve the intelligence of transportation economic support systems by studying the progress and plans of work in standardization, industry initiatives and government programs.

组织者 :

YUE QIAN, Department of ITS, Research Institute of Highway, P.R.China, China

主持人 :

JUNYI ZHANG, Southeast University, China

演讲者 :

YUE QIAN, Department of ITS, Research Institute of Highway, P.R.China, China
ZHONGHUA CHI, Yunnan Communications Investment & Construction Group Co.,Ltd, China
MINGLEI DUAN, Yunnan Highway Network Toll Management Co.,Ltd, China
JUNYI ZHANG, Southeast University, China
JIANCHENG WENG, Beijing University of Technology, China
JUNHUA CHEN, School of Traffic and Transportation, Beijing Jiaotong University, China

SIS20 SUSTAINABLE AND DIGITAL DEVELOPMENT OF MULTIMODAL TRANSPORT SYSTEMS

2023 年 10 月 17 日，星期二 | 16:00-17:30 | < 会议室 : 5（A203-A204） >

For a long time, roads, railways, waterways, air and other modes of transport have developed relatively independently. The connectivity and resilience of various transport modes are not strong, and the layout and structure of the multimodal transport network need to be optimized. The multimodal transport service quality now is difficult to meet the diversified travel needs, and the collaborative service efficiency of various transport modes is low. The overall efficiency of the multimodal transport system needs to be improved urgently. It is of great significance to construct a convenient, sustainable, intelligent and advanced modern multimodal transport system.

This session proposes to discuss the challenges and opportunities of sustainability and digitalization in multimodal transport systems. The content covers multimodal transport network modeling and design, multimodal transport network management, new energy and low-carbon transformation, transportation digital innovation, etc. The goal of the session is to provide participants with insights into the latest developments and trends in sustainable and digital multimodal transport, and to encourage discussion and collaboration among stakeholders in the field. The session will cover topics such as:

- Sustainable and digital infrastructure development
- Energy-efficient transportation modes
- Sustainable logistics and supply chain management
- Digitalization of multimodal transport services and operations
- Data-driven decision making for sustainable multimodal transport systems

组织者 :

JUN CHEN, Southeast University, China

主持人 :

ZHIYUAN LIU, Southeast University, China

演讲者 :

HELAI HUANG, Central South University, China
FENG XIAO, Southwestern University of Finance and Economics, China
XIQUN CHEN, Zhejiang University, China
ZHENG CHANG, Ph.D,Research Institute of Highway Ministry of Transport, China

SIS21 CHALLENGES AND INNOVATIVE SOLUTIONS FROM CHINA AND EUROPE – IN PARTICULAR SUZHOU/SHANGHAI AND BERLIN

2023 年 10 月 18 日，星期三 | 11:00-12:30 | < 会议室 : 2（A214-A215） >

Two world leading metropole regions from China and Europe – in particular Suzhou / Shanghai and Berlin – have teamed up in this session to discuss their individual approaches to addressing the challenges they face in their mobility planning and management and in fostering innovative and sustainable mobility solutions for their citizens.
Start-ups and innovative companies from the selected cities will provide insights into their particular situations, explaining their Intelligent Transport Systems' contributions to supporting the cities to offering smart and sustainable mobility, thus supporting the improvement of the citizens' and the public's quality of life.
The goal of the session is to present an original and singular insight into the variety of innovative solutions from three world leading metropolitan regions, showcasing projects and highlights in game changing mobility solutions that foster an incremental drive towards intelligent societies.
4 panelists (one representative and one entrepreneur from each region) will discuss the challenges, perspectives and visions that guide their future-oriented urban mobility plans.
This session will be organized as a panel discussion format including panelist introduction and initial statements followed by an insightful discussion between the speakers on their approaches to current and upcoming challenges, their lessons learned, their visions and steps towards realizing them. Similarities and differences between the different regions will be discussed and ways to learn from each other identified. Questions from the audience will be allowed to bring the audience perspective into the discussion as well. Each speaker will wrap-up the discussion with a final statement to summarize their main ideas. Participants are invited to get in touch with the panel participants to continue their discussions with the representatives of the three metropoles even after the congress.
In the Q & A session, participants will have the chance to ask their questions and get in touch with the panelists from the three metropoles. The moderator will pay attention to reserve sufficient time for questions and answers and will also invite the audience to think about questions during the moderation. Perspectives from other cities and / or regions are welcome. The aim is to learn from each other and take inspiration - also the speakers are happy to take inspiration from the audience. The discussion shall serve as starting point for a longer in-depth discussion between those individual players who like to continue their discussions and exchanges afterwards.

组织者 :
WOLFGANG TREINEN, Berlin Partner for Business and Technology, Germany

主持人 :
WOLFGANG TREINEN, Berlin Partner for Business and Technology, Germany

演讲者 :
SANDRA SCHULZE, Berlin Partner for Business and Technology, Germany
SCOFIELD LIANG, The Drivery, Germany and China
XIAOJING WANG, China ITS Industry Alliance, China
TBD

SIS22 PROMOTING C-V2X APPLICATION WORLDWIDE: LEARNING FROM CHINA'S SUCCESS

2023 年 10 月 18 日，星期三 | 11:00-12:30 | < 会议室 : 3（A212-A213） >

Connectivity is one of the key to a successful ITS world. Among all the connectivity methods, C-V2X is a cellular-based vehicle-to-everything technology that enables the communication between vehicles, infrastructure, pedestrians, and other road users, providing safe, efficient, and convenient services for intelligent transportation systems (ITS). C-V2X has been specified by 3GPP since 2017, and China is a leader and promoter of C-V2X technology, achieving remarkable results in policy, standardization, industry, and applications. For example, China has issued the dedicated spectrum for C-V2X direct communication, published numerous C-V2X technical standards and testing specifications, established a national unified C-V2X frequency resource management platform, and promoted C-V2X demonstration projects and commercial deployment in several cities and areas as well as launched lots of vehicle models in the market that the end consumers can experience. China will also be the first to establish V2X as part of NCAP.
The purpose of this session is to provide on one hand an update of the most recent C-V2X development in different regions regarding the regulation, spectrum, products, certifications, market deployment, and applications, especially from auto OEMs'/ Tier1s' perspective. This session aims to invite relevant experts from regions such as China, Japan, Korea, the United States, and Europe to discuss how to leverage China's successful experience in C-V2X to accelerate the application of C-V2X worldwide. In leveraging the experience from China, the session will address the issues met during the C-V2X development and come up with a common and agreed way forward as well as the actions to pave the way for a better future of the C-V2X development, to improve road safety, traffic efficiency, and to a safe, green, sustainability and better society.

组织者 :
YAN LI, Qualcomm Inc., China

主持人 :
YAN LI, Qualcomm Inc., China

演讲者 :
TIM LEINMUELLER, Denso, Germany
TONY QIU, iSmartWays Inc, United States
YING ZHANG, GWM, China
HAKSEONG KIM, LG Electronics, Republic of Korea
YIZHI WANG, Nebula, China

SIS23 ROAD INFRASTRUCTURE SUPPORT FOR AUTOMATED DRIVING

2023 年 10 月 18 日，星期三 | 11:00-12:30 | < 会议室 : 4（A210-A211） >

In order to realize automated driving, it is important not only for technological progress on the vehicle side but also for support from the road infrastructure side. Many countries around the world are developing cooperative road-vehicle technology, conducting various filed operational tests, and developing systems with support from road infrastructure in mind. In such a situation, the role of road administrators is becoming more important.In this session, speakers introduced the "support for automated driving from road infrastructure" in each country and we will aim to deepen discussions on the following items.·Public and private sector roles in technology development·How cooperation between road and vehicles should be coordinated from the perspective of vehicle and road management·Directions for cooperation and institutional support toward the realization of a road-vehicle cooperative system·Road structures (dedicated lanes) to support autonomous driving.

组织者 :
MIYAKE MASANORI, ITS Policy and Program Office Ministry of Land, Infrastructure, Transport and Tourism Japan, Japan

主持人 :
HIRONAO KAWASHIMA, Mobility Culture Research Center,Keio University, Japan

演讲者 :
DONGZHU WANG, National ITS Research Center, Research Institute of Highway, MOT, China
SUKU PHULL, Traffic and Technology Division, Department for Transport, United Kingdom
TBD
MIYAKE MASANORI, ITS Policy and Program Office Ministry of Land, Infrastructure, Transport and Tourism Japan, Japan

SIS24 INSURTECH AND ITS: TRANSPORTATION RISK ASSESSMENT AND MANAGEMENT SOLUTIONS TRAMS (TRAMS)

2023 年 10 月 18 日，星期三 | 11:00-12:30 | < 会议室 : 5（A203-A204） >

The collaboration between the two digital ecosystems of ITS and Fintech (thru insurtech) will surely open up many new opportunities to propel development of future transportation system, as well as addressing some of the most burdensome legacy challenges for today's transportation system.
Whereas insurance has always been a critical market instrument for implementation of transportation regulations and stimulation of good behaviors for road safety, today, the advancement of insurtech has enabled new possibilities on how the risk & safety related big data resources and intelligence of insurance companies can be applied to improve design and management of modern transformation system, particularly for risk assessments and mitigation, and to advance developments of future transportation system (e.g. autonomous vehicle). However, new emerging bottlenecks such as data security and privacy will require collective efforts to address.
At the same time, legacy challenges still loom at large for transportation-insurance, such as accessibility and affordability for auto insurance, especially in emerging economies. Regulators and commercial champions have been exploring multisource data-modeling from ITS ecosystem to tackle these issues. Lessons from these endeavors can be instrumental for regulators to address some of today's most imminent problems.
The proposed SIS aims to form an interdisciplinary dialogue among experts from different sectors to explore how the two digital ecosystems can collaborate together for shaping a more affordable, intelligent, sustainable and derisked future transportation system, and what are the imminent chokepoints that two sides need to address for creating the enabling collaborative environment. It will take special interest in how emerging economies like China is utilizing ITS data to improve insurance risk management and applying insurtech to its transportation system design and risk mitigation while dealing with emerging challenges on data privacy and securities, and how developed economies like US is using multisource ITS big-data to improve insurance accessibility for auto-owners of all income level.

组织者 :
WILL SHAW, Innovation Center for Energy and Transportation, United States

主持人 :
FENG AN, Innovation Center for Energy and Transportation, United States

演讲者 :
STEFAN SCHULZ , Munich Re, Head, Motor Consulting Unit, Germany
SHI YIFEI , China Banking and Insurance Information Technology Management Co. Ltd. (CBIT), General Manager, Business Unit 3 (Transportation & Mobility Services) , China
ZHI YU , Guangdong ITS Center at Sun Yat-Sen University, Professor, China
CAREY ANNE NADEAU, Loop Insurance, Co-CEO, United States
TIGER FANG, Kargo Technologies, CEO, Indonesia

SIS25 SAFETY MEASURES FOR MIXED TRAFFIC IN ASIA PACIFIC REGION

2023 年 10 月 18 日，星期三 | 14:00-15:30 | < 会议室 : 2（A214-A215） >

It has the most variation in traffic flow at Asia Pacific Region because there are so many mobility stakeholders such as tricycle, bike, motorcycle, e-kickboard beside 4 wheelers.
Even pedestrian is one of the players when safety measure should be considered.
The situation could be different from those of regions with organize traffic flow where vehicles run inside lanes. However, when we think about bike even for those organize traffic flow regions, it needs to consider further more safety aspects.
With the session, speakers will address concerns and troubles that they have and discuss solutions or services based on the finding through the session.

组织者 :
NOBUYUKI OZAKI, Nagoya University, Japan

主持人 :
NOBUYUKI OZAKI, Nagoya University, Japan

演讲者 :
MAKOTO TAMURA, Toyota Motor Corporation, Japan
SHOICHIRO MIHARA, Toyota Motor Corporation, Japan
TONGKARN KAEWCHALERMTONG, ITS Thailand/ Chulachomklao Royal Military Academy, Thailand
NOBUYUKI OZAKI, Nagoya University, Japan

SIS26 ACCELERATING GLOBAL C-V2X DEPLOYMENT FOR SAFER AND SMARTER MOBILITY

2023 年 10 月 18 日，星期三 | 14:00-15:30 | < 会议室 : 3（A212-A213） >

The 5G Automotive Association (5GAA) proposes a special interest session that looks at the critical role that C-V2X deployment plays within the process of improving road safety in the United States.
The evidence is clear. C-V2X technology will transform traffic safety across the World, but the US in particular stands to reap the benefits of this. Today's C-V2X safety services, such as traffic signal pre-emption and road hazard information, are saving lives. With the regulatory conditions ripe for commercial deployment (assumption of the FCC order/waivers granted) the industry and infrastructure owners and operators are preparing for widespread deployment that will allow the American people to reap the benefits of this technology. It is this that we want the special interest session to focus on; the readiness of industry to deploy these solutions.

组织者 :
DAVID ERTL, 5GAA, Germany

主持人 :
MAXIME FLAMENT,5GAA, Germany

演讲者 :
YUMING GE, CAICT，China
XIN ZANG, Bosch，China
ZHAOLI LI, CATT (tbc)，China
TBD

SIS27 DIGITAL INFRASTRUCTURE PRACTICE FOR SERVING AUTONOMOUS DRIVING SCENARIOS

2023 年 10 月 18 日，星期三 | 14:00-15:30 | < 会议室 : 4（A210-A211） >

With the accelerating evolution of electrification, networking and intelligence of technologies, autonomous driving, which integrates the Internet of Things, cloud computing, big data, artificial intelligence and other innovative technologies, has emerged in response to the needs of times and become a strategic importance for the development of global emerging industries.
The transformation of the automobile industry has posed great challenges to the construction of traditional transportation infrastructure. Digital infrastructure has become the core of the construction of "cloud terminal" full-stack autonomous driving scenario. In order to deepen the collaborative development of "vehicle-road-cloud" and implement empowerment of infrastructure on the automatic driving upgrade, Suzhou Intelligent Network Technology Development Co., Ltd. has created a digital infrastructure integration service provider integrating scene construction, data service, commercial operation and industrial development, which coordinates the management of urban intelligent network, intelligent comprehensive rod and distributed edge cloud infrastructure, so as to realize unified planning, construction, operation and maintenance, and build an integrated physical space, Internet of things space and digital space of urban infrastructure. On the one hand, digital infrastructure construction serves the safe operation and efficient management of autonomous driving; on the other hand, it will boost urban transportation management and smart city construction, reduce costs, raise efficiency of urban public system and consolidate the foundation for the development of digital economy.

组织者 :
LI ZHANG, Suzhou Intelligent Connected Vehicle Technology Company Limited, China

主持人 :
NA LI, Sungent Digital Technology Co., Ltd, China

演讲者 :
ZONGCHENG WANG, Suzhou Intelligent Connected Vehicle Technology Development Co., Ltd, China
DONGYAO JIA, Xi'an Jiaotong-Liverpool University, China
MINGCHUN LIU, Higer Bus Company Limited, China
HONGBEN LIU, College of Transportation Engineering, Tongji University, China
GUANGTAO ZHOU, China Unicom Smart Connection Technology Limited, China

SIS28 THE APPLICATION OF DIGITAL TWINS IN THE INTELLIGENT TRANSPORTATION

2023 年 10 月 18 日，星期三 | 14:00-15:30 | < 会议室 : 5（A203-A204） >

The research on the application of digital twins in the field of intelligent transportation can provide effective solutions to many transportation problems. For example, by deploying sensors and cameras in cities to collect traffic data, real-time monitoring of traffic flow and updating models to alleviate congestion can be realized. In addition, by simulating traffic accidents, the vulnerability of the transportation system can be assessed and the factors that may lead to accidents can be identified, thus providing transportation planners with suggestions to improve the design of the road network and enhance the safety of the transportation system. Meanwhile, through the digital twin model, different traffic flows, routes and rules can be simulated to test the reliability and sustainability of the transportation system. In addition, by simulating various road conditions and traffic scenarios, the safety and robustness of self-driving cars can be evaluated, among others.
Experts in the industry will be invited to share their insights from three aspects: basic software, industry applications and cutting-edge development, providing attendees with a wealth of information and in-depth insights. Please look forward to this event!

组织者 :
JSTI GROUP, China

主持人 :
JIAN LI, JSTI GROUP, China

演讲者 :
HAI LANG HUANG, JSTI GROUP, China
ZHIBIN LI , JSTI GROUP, China
YANQING HU, JSTI GROUP, China
TBD

SIS29 STRATEGY OF PRACTICAL IMPLEMENTATION OF V2X SYSTEMS FOR TRAFFIC ACCIDENT AVOIDANCE

2023 年 10 月 18 日，星期三 | 16:00-17:30 | < 会议室 : 2（A214-A215） >

In many countries, the prevention of road traffic accidents, especially serious accidents, is an important issue for road users.This session aims to introduce the development and deployment of V2X systems and discuss the technical and political aspects of V2X systems for road accident avoidance.

组织者 :
HIROYA TOMIOKA,National Police Agency, National Police Agency, Japan

主持人 :
KENYA SATO, Doshisha University, Doshisha University, Japan

演讲者 :
NAOTO SHIMADA, National Police Agency, Japan
MASAFUMI KOBAYASHI, UTMS Society of Japan, Japan
YUICHI TAKAYANAGI, UTMS Society of Japan, Japan
ANDREW MEHAFFEY, HMI Technologies Pty Ltd, Australia

SIS30 PERCEPTION AND EVALUATION TECHNOLOGY OF INTELLIGENT CONNECTED VEHICLES

2023 年 10 月 18 日，星期三 | 16:00-17:30 | < 会议室 : 3（A212-A213） >

The Intelligent traffic system (ITS) integrates advanced technologies such as onboard perception, roadside perception, vehicle infrastructure cooperative perception. As the core of ITS, advanced perception technology enables vehicles to analyze and understand the internal and external traffic environment information more accurately, and provides reliable information input for the decision-making module, which is the necessary basis for the intelligent connected vehicles. The complex and uncertain traffic scenarios put forward higher requirements for the cooperative vehicle-infrastructure system(CVIS), so it is necessary to test and evaluate the performance,reliability and safety of perception under many traffic scenarios. This session will revolve around the advanced perception and evaluation technology of ITS, and focus on single-modality traffic object detection and tracking, multimodal fusion traffic object detection and tracking, vehicle infrastructure cooperative perception, and the test and evaluation technology of different perception system.

组织者 :
XIN BI, Tongji University, China

主持人 :
XIN BI, Tongji University, China

演讲者 :
XIAOCONG LIAN, Tsinghua University, China
JUNSHENG FU, Zenseact, Sweden
JIANYONG CAO, Shanghai Motor Vehicle Inspection Certification & Tech innovation Center Co., LTD, China
QIANG YANG, Beijing Saimo Technology Co., LTD, China

SIS32 SENSOR DATA SHARING IN ITS - STATUS AND OUTLOOK

2023 年 10 月 18 日，星期三 | 16:00-17:30 | < 会议室 : 5（A203-A204） >

Modern transport systems are increasingly equipped with all types of sensors in order to perceive their environment by detecting unoccupied regions, road users and other safety-relevant objects. Collective Perception allows traffic participants and infrastructure to exchange sensor information via V2X communication and therefore substantially enhance their environmental perception. After several years of intense research and standardization efforts, specifications of Collective Perception are being accomplished in the US, China, and Europe. In this session, the key concepts of sensor data sharing are introduced generically, before the leaders of the standardization efforts carried out by SAE (USA), C-SAE (China), and ETSI (EU) highlight the main distinctive features of their regions' implementation. Finally, future development directions and potential deployment scenarios are discussed, rounding up the session.

组织者 :
FLORIAN SCHIEGG, Robert Bosch GmbH, Germany

主持人 :
TBD

演讲者 :
DAN VASSILOVSKI, Qualcomm Inc., United States
YIZHI WANG, Nebula Link, China
KATHRIN HAGEMANN, IAV GmbH, Germany
FLORIAN SCHIEGG, Robert Bosch GmbH, Germany
HUI GUO, QUALCOMM CHINA, INC., China

SIS33 CURRENT STATUS OF V2X IN US AND EUROPE

2023 年 10 月 19 日，星期四 | 09:00-10:30 | < 会议室 : 2（A214-A215） >

This session provides an industrial viewpoint of international cooperation on deployed and actual operational V2X systems, as well as their future extensions, following the directions of each government. Everybody would be recognizing the importance of ITS deployment in the US and Europe, towards ‘’Traffic Fatality Zero’’ and ‘’Sustainable Cities" but unfortunately, there are still unfixed matters in the US, including 5.9GHz. Furthermore, there are an increasing number of cases where technical theory for business is leading, but the top priority for V2X is to prevent accidents and reduce traffic fatalities. To put forward the current V2X deployment and its extensions, there will be several points to be solved as soon as possible among stakeholders. And they are as follows: • Normally, OEMs are in a competitive relationship, but cooperation is required in the ITS field, especially V2X. Different vehicle and infrastructure OEMs will not be able to realize actual V2X unless industry stakeholders use the established same standards and rules with government support. • 5.9GHz band for ITS in the world is very important for realizing safety, contributing to environmental improvement, and congestion elimination. • After confirming the above two points, stakeholders, including OEMs, will be able to put forward their own product plans in the future for realizing "safety" and contributing "climate crisis.

组织者 :
KEVIN (KUNIHIKO) ANEGAWA, TOYOTA Motor Corporation, Japan

主持人 :
PAUL SPAANDERMAN, CEO of InnoMo & Vice Chair of ETSI ITS TC, Monaco

演讲者 :
JOHN KENNEY, Director and Sr. Principal Researcher, Toyota Motor North America, InfoTech Labs, United States
SUE BAI, Chief Engineer, Honda, United States
LI XI, CARIAD, China
NIELS PETER SKOV ANDERSEN, General Manager, C2CCC, Denmark

SIS34 CHINA VEHICLE&CITY INTEGRATION DEVELOPMENT SESSION

2023 年 10 月 19 日，星期四 | 09:00-10:30 | < 会议室 : 3（A212-A213） >

Currently, the Intelligent Connected Vehicle industry is developing rapidly. However, the development of roadside infrastructure still faces constraints from various aspects such as policies and standards, whcih making it difficult to test and verify the infrastructure of smart cities and intelligent vehicles.
This session aims to explore the development path of dual smart cities based on the China Vehicle City Integration Certification Index from three dimensions: urban transportation infrastructure coverage level, intelligent level, and empowerment level, in order to promote the large-scale construction and application of smart city transportation infrastructure.

组织者 :
ZHIQIANG YU, Intelligent Connected Technology of CAERI Co., Ltd., China

主持人 :
QIANG ZHANG, Intelligent Connected Technology of CAERI Co., Ltd., China

演讲者 :
QIN XIA, Intelligent Connected Technology of CAERI Co., Ltd., China
XIANG REN, Intelligent Connected Technology of CAERI Co., Ltd., China
TBD

SIS35 ROADSIDE INFRASTRUCTURE SUPPORTED LOCATION-BASED SERVICES FOR URBAN CONNECTED AUTOMATED MOBILITY

2023 年 10 月 19 日，星期四 | 09:00-10:30 | < 会议室 : 4（A210-A211）>

Methodology and standardization need to be discussed to provide roadside infrastructure supported location-based services with connected automated mobility including personal mobility, micro-electric mobility, urban automated shuttle, to be applicable in the specific urban roadway sections, such as signalized and/or unsignalized intersections, roundabout, weaving area, ramp metering zone, etc. The related issues which are under developed upon roadside infrastructure supported location-based services for urban connected automated mobility in ISO/TC204 WG17, Nomadic & Mobile Devices for ITS Services. are presented in this workshop.

组织者 :
YOUNG-JUN MOON, Korea Advanced Institute of Science & Technology (KAIST), Republic of Korea

主持人 :
YOUJUN CHOI, Korea Automotive Technology Institute (KATECH), Republic of Korea

演讲者 :
YOUNG-JUN MOON, KAIST, Republic of Korea
MOHAMMED HIKMET, HMI Technology, New Zealand
KI-HUN JANG, ITS Korea, Republic of Korea
JIAN WAN, China Design Group, China

SIS36 INTELLIGENT CONNECTED URBAN TRANSPORT AND SMART GOVERNANCE

2023 年 10 月 19 日，星期四 | 09:00-10:30 | < 会议室 : 5（A203-A204） >

All of the pathways to autonomous mobility identify a critical transition phase where different vehicles and mobility services co-exist on the same road network, especially in urban areas. The challenge that will arise during this phase revolves around the sector's ability to design a physical and digital network with intelligent technologies to support the residents and provide them with a safe, effective and efficiently integrated management systems of transport, logistics, public transportation, bicycle traffic and parking, etc.

Designed to support an interactive dialogue with transport officials and state authorities, agency executives, this session will be jointly hosted by the China Highway & Transportation Society (CHTS) and International Road Federation (IRF Global), as well as to inherit the intellect of the two organizations' cooperation experience during ITS World Congress. This forum will be further strengthened by input from Baidu, a major private stakeholder concerning China's connected mobility network practice, with a strategic review of deployment scenarios, engineering measures, and business models that are being developed by the sectors to assist this transition process, and ensure that public benefits from the intelligent connected urban transport and its smart governance are maximized.

组织者 :
XIUQIN DUAN, China Highway & Transportation Society, China

主持人 :
GONZALO ALCARAZ, International Road Federation (IRF), Switzerland

演讲者 :
XIAOJING WANG, China ITS Industry Alliance, China
HAJIME AMANO, Mobility Innovation Alliance Japan and ITS Japan, Japan
QINGHUA SHI, Baidu, China
ZHIYUAN LIU, Southeast University, China
RONG LI, Zhijia Technology, China
JUNWEI BAO, Innovusion , China

SIS37 THE BEST PRACTICE FROM EXCELLENT PROJECTS OF SMART TRANSPORTATION INNOVATION COMPETITION IN THE YANGTZE RIVER DELTA

2023 年 10 月 19 日，星期四 | 11:00-12:30 | < 会议室 : 2（A214-A215） >

This session will be combined with the latest innovation in the field of smart transportation practice and exploration, based on the outstanding achievements from The Innovation Competition in the Yangtze river delta of the 29th ITS World Congress, and integrate some key smart transportation practice cases, such as port safety supervision based on AI and Big data, smart construction based on BIM and GIS, which will drive the development of the digital transformation for our industry.

组织者 :
HONGXIA ZHANG, Jiangsu Provincial Comprehensive Transportation Association, China

主持人 :
JIARONG XI, China Design Group, China

演讲者 :
RONG JI, China Design Group, China
DUNDUN LI, Suzhou Genland Ipark Technology Co., Ltd., China
YI HAN, COSCO SHIPPING TECHNOLOGY Co.,Ltd., China
JIARONG XI, China Design Group, China
XUSHENG ZHANG, Jiangsu Provincial Transportation Engineering Construction Bureau, China

SIS38 MANAGING MIXED TRAFFIC WITH CONNECTED AND AUTOMATED VEHICLES: CHALLENGES AND OPPORTUNITIES

2023 年 10 月 19 日，星期四 | 11:00-12:30 | < 会议室 : 3（A212-A213） >

With the emergence of connected and automated vehicles (CAVs), transportation agencies can collect, analyze, use, and disseminate multi-source data, enabling more informed decision-making processes for traffic management. Moreover, CAVs have opened up new opportunities for more flexible and real-time management and control measures to enhance system performance. However, the mixed traffic flow of CAVs and human-driven vehicles (HDVs) will exist on the road for a long time, and the related traffic control problems remain challenges. To maximize the benefits of CAVs, innovative traffic control strategies are needed. This special session aims to bring together researchers, practitioners, and industry experts to discuss traffic control strategies for mixed traffic with CAVs. The special session will provide a forum for experts to discuss innovative traffic control strategies, real-time monitoring and management systems, intelligent intersection control, cooperative driving and platooning, cybersecurity and privacy concerns, and policy and regulatory considerations related to CAVs in traffic control.

组织者 :
WANJING MA, Tongji University, China

主持人 :
ZICHENG SU, Tongji University, China

演讲者 :
GUANGQUAN LU, Beihang University, China
CHUNHUI YU, Tongji University, China
WEI MA, The HongKong Polytechnic University, China
HUAN YU, Hong Kong University of Science and Technology (Guangzhou), China

SIS39 GLOBAL POLICY AND STANDARDIZATION FOR CYBERSECURITY ISSUES

2023 年 10 月 19 日，星期四 | 11:00-12:30 | < 会议室 : 4（A210-A211） >

The V2X (including C-V2X) ensures the entire mobility safety on the connectivity between vehicles and everything including any moving subjects, i.e. vulnerable road users (VRU) in the roadways and roadsides, and allows for connections with numerous entities while its security is maintained by the use of public key identification (PKI). In order to preserve privacy, each vehicle is equipped with multiple pseudonym certificates to be utilized in V2X for making the system relatively more resilient against outsider attacks. So that it should be necessary to figure a way out to get the potential solutions ensuring that vehicles operate securely by exchanging the safety information with nearby V2X devices, and utilizing pseudonym certificate in V2X makes the system relatively more resilient against outsider attacks worldwide.
This session deals with a cybersecurity issue which is now widely discussed in the ITS markets, how to provide global policy and standardization in order to cover the entire mobility ecosystem to be compliant with and successfully implemented in vehicles, the infrastructure, and the all moving subjects including VRU.

组织者 :
EUISEOK KIM, Autocrypt Co. Ltd., Republic of Korea

主持人 :
YOUNG-JUN MOON, Korea Advanced Institute of Science & Technology (KAIST), Republic of Korea

演讲者 :
TBD

SIS42 URBAN CONNECTED AUTOMATED SHUTTLE SYSTEMS AND SERVICES

2023 年 10 月 19 日，星期四 | 14:00-15:30 | < 会议室 : 3（A212-A213） >

This session demonstrates the worldwide programs of on going programs in the cities with connected automated shuttle bus for utilizing first and/or last mile connectivity between different type of zones as a public or shared transport. Recently there are more than 50 cities in the world which have adopted a kind of automated driving shuttle to be tested as a new urban mobility to upgrade their conventional public transport systems. The potential feasibility of the connected automated shuttle bus would be discussed in this session with comparisons of different cases in the world in terms of connected and automated functions, mobility purposes, infrastructure cooperation, policies with regulation and legislation, etc.

组织者 :
YOUNG-JUN MOON, Korea Advanced Institute of Science & Technology (KAIST), Republic of Korea

主持人 :
DEAN ZABRIESZACH, HMI Technology, Inc., Australia

演讲者 :
KYUOK KIM, KOTI, Republic of Korea
ROBERT SYKORA, Ohmio, Luxembourg
JAEKUN HA, ITS Korea, Republic of Korea
GIULA RENZI, ICOOR c/o DISMI Univ. of Modena and Reggio Emilia, Italy

SIS43 INTELLIGENT ROADWAY INFRASTRUCTURE AND TRAFFIC SAFETY

2023 年 10 月 19 日，星期四 | 14:00-15:30 | < 会议室 : 4（A210-A211）>

This session is dedicated to studying the impacts of intelligent roadway infrastructure on traffic safety. The purpose is to showcase new concepts and strategies, new technology and technology implementation to improve traffic safety while making the roadway and related infrastructure smarter. The session will help guide the research communities, the industry, the governments and the communities to work together to advance the goals of vision zero and social equity in traffic safety.

组织者 :
ZHONGYIN GUO, Tongji University, China

主持人 :
TBD

演讲者 :
RONGGUI ZHOU, Development and Application of Highway Risk Assessment Technology in China, China
PETAR DAVCEV, Australia Road Research Board, Australia
JIANCHUAN CHENG, Southeast University, China
XIAOFEI WANG, South China University of Technology, China
NENGCHAO LIU, Wuhan University of Technology, China
JUNHUA WANG, Tongji University, China
XUESONG WANG, Tongji University, China

SIS44 MOBILITY ON DEMAND: THE RISE OF DISRUPTIVE TECHNOLOGIES, MODELS, AND SERVICES

2023 年 10 月 19 日，星期四 | 14:00-15:30 | < 会议室 : 5（A203-A204）>

In response to fast-changing traffic needs, future city transport systems will have to introduce new mobility services and promote innovation, active transport infrastructure, effectiveness, safety, and accessibility. This session will explore the rise of mobility on demand, including technologies, models, and services such as on-demand transport, ride-sharing, intelligent controls, automated and connected driving, big-data analysis and prediction, artificial intelligence, computer science, and digital twins. Of particular interest are the impacts of emerging technologies on cities, in terms of monitoring, efficiency, safety, reliability, resource consumption, and the environment. Researches in the following areas of transportation are also welcome to be presented: multimodal and intermodal transportation, intelligent transportation systems, traffic and demand management, real-time operations, railways, traffic behavior analysis, resource and infrastructure management, pedestrians, and soft modes. This session will discuss how these technologies are reshaping the transportation landscape, and the generated ideas may further help cities reach goals of smart, safe, equitable, and sustainable transportation.

组织者 :
PEIXIN SHI, School of Rail Transportation, Soochow University, China

主持人 :
PEIXIN SHI, School of Rail Transportation, Soochow University, China

演讲者 :
XIAOGUANG YANG, College of transportation engineer, Tongji University, China
YONGDONG LI, Department of Electrical Engineering, Tsinghua University, China
JINPING GUAN, School of Architecture, Harbin Institute of Technology (Shenzhen), China
HONG ZHOU, JiangSu Communications Holding Digital Transportation Research Institute Co.,Ltd., China
RIHAO GUAN, Suzhou Public Transport Group Co., Ltd, China

SIS45 THE APPLICATION DEVELOPMENT OF SPECIFIC SCENARIO, POLICY AND REGULATION PROSPECTS OF SURFACE AUTONOMOUS DRIVING TECHNOLOGY

2023 年 10 月 19 日，星期四 | 16:00-17:30 | < 会议室 : 2（A214-A215） >

Facing the application needs of digitization and intelligence in the water, land, and air transportation industry, this meeting focuses on exchanging and introducing the application achievements and typical cases of technologies such as autonomous driving, digital twins, and simulation in the development process of land and surface transportation, as well as the evolution and prospects of policies and regulations in corresponding scenarios. We are jointly committed to providing a more open, practical, and efficient solutions and service products in the field of intelligent transportation for the industry.

组织者 :
CHELSEA XIANG, ShaanXi ORCA Electronic Intelligent Technology Co.,Ltd (ORCAUBOAT), China

主持人 :
CHELSEA XIANG, ShaanXi ORCA Electronic Intelligent Technology Co.,Ltd (ORCAUBOAT), China

演讲者 :
CHELSEA XIANG, ShaanXi ORCA Electronic Intelligent Technology Co.,Ltd (ORCAUBOAT), China
KONG JI, Shanghai West Hongqiao Navigation Industry Development Co., Ltd., China
TBD, 51WORLD, China
DIXIAO CUI, Zhijia Technology, China

SIS46 IN CABIN CHALLENGES: FROM REQUIREMENT TO HOMOLOGATION

2023 年 10 月 17 日，星期二 | 14:00-15:30 | < 会议室 : 4（A210-A211） >

Every occupant is just a passenger and is never required to be involved in driving. There is no one responsible in charge, and all the occupants are passengers. They are free from driving and vehicle control responsibilities. All occupants are free to perform other tasks of their interests, including relaxing during their commute. What should be the appropriate position of the camera for the in-cabin of a higher level of autonomous driving?
The absence of a vehicle in-charge requires a robust solution to ensure the security and safety of all occupants. Furthermore, the vehicle itself requires protection from any malicious behavior by the occupants. The safety of each occupant implies their physical protection. On the other hand, the security of occupants indicates their information protection. Moreover, the safety of a vehicle is meant for protection from its misuse, damage, and exploitation.
Stakeholders from both industries in the converging mobility eco-system face challenges, which cannot be solved by a single company or by a closed circle of a few companies. Close cooperation across a variety of disciplines and a diversity of stakeholders is needed to align technology evolution paths, to jointly evolve value networks and markets, and to build trust in autonomous systems. In particular, standards related activities help to reduce complexity and thus reduce risks and cost, facilitate economies of scale, enable interoperable building blocks of the end-to-end system, and ensure compliance with regulatory requirements.
The tech market is shifting to Vehicle, Tier1s and OEMs must scale their in-cabin teams to keep up with the technical and human factors demands of regulations, standards and consumers expectations of comfort and convenience. This technology demands highly skilled perception, optics, and human factors developers and engineers.
The focus will be more oriented to cockpit, UX, in-cabin teams. It is in their best interest to scale, it's the only way to keep up with the demands of an entirely new set of technology. The in-cabin technology includes lower range radar, new noise considerations, VCELS instead of lidar, facial recognition, human factors understanding, privacy, emotional detection, much of this is new for auto and they're going to put more people, more budget, more resource on it. If you are looking for a new role, this industry is a great place to look.
A broad, open, cross-industry dialogue is needed to exchange views, to debate and to agree upon common challenges and coordinated activities needed.

组织者 :
HADJ HAMMA TADJINE, IAV GmbH, Germany

主持人 :
HADJ HAMMA TADJINE, IAV GmbH, Germany

演讲者 :
HADJ HAMMA TADJINE, IAV GmbH, Vice Chair Standards IEEE ITS, Germany
MENG LU, VP Standards Activities, IEEE Intelligent Transportation Systems Society., Netherland
PATRICK LAUFER, IAV GmbH, Germany
HEIKO RUTH, DXC Technology, Germany
BENEDIKT LAMONTAIN, University of Applied Sciences Magbeburg, Germany
BENEDIKT SCHONLAU, CEO Silliconally, Germany
MARCUS FUTTERLIEB, Harmann, Team Lead ReadyCare DMS/OMS Central Functions & System Test, Germany

SIS47 DEVELOPING HIGHWAY SYSTEMS FOR CONNECTED & AUTOMATED VEHICLES: ACHIEVING GLOBAL CONSENSUS

2023 年 10 月 19 日，星期四 | 16:00-17:30 | < 会议室 : 4（A210-A211） >

All of the pathways to autonomous mobility identify a critical transition phase where different vehicles and mobility services co-exist on the same road network. The challenge that will arise during this phase revolves around the sector's ability to design a physical and digital road network to ensure that vehicles with a high degree of automation are integrated smoothly in current traffic, without jeopardizing safety and efficiency.
Designed to support an interactive dialogue with government leaders and highway agency executives, this panel jointly presented by the International Road Federation (IRF Global) & the China Highway & Transportation Society (CHTS) will offer a strategic review of deployment scenarios, engineering measures, global standardization requirements and business models that are being developed by the mobility sector to assist this transition process, and ensure that public benefits from autonomous vehicles are maximized.

组织者 :
XIUQIN DUAN, China Highway & Transportation Society, China

主持人 :
NINA GUAN, China Highway & Transportation Society (CHTS), China

演讲者 :
DERHORNG LEE, Zhejiang University - University of Illinois Urbana-Champaign Institute, Singapore
XINGHUA LI, China Transportation Institute at Tongji University, China
LIN WANG, Research Institute of Highway, Ministry of Transport of China, China
LEI ZHANG, Alibaba Cloud, China
SONG JIONGJIONG, AECOM Technical Serices, United States

SIS48 GLOBAL COMMERCIALIZATION POLICY AND STRATEGY FOR ITS

2023 年 10 月 19 日，星期四 | 16:00-17:30 | < 会议室 : 5（A203-A204） >

This session demonstrates a more effective way of integrated global commercialization programs for ITS fulfilled by each region including EMEA, America, and Asia-Pacific by different approach of commercialization processes such as exploring market's demand, technology transfer, commercialization, education and consulting. How to build a global cooperative network between related countries with a mission to enable technology transfer and commercialization and provide a search engine with accurate information of ITS market supply, demand, and matching technologies is going to be discussed in this session between ITS AP, ERTICO, and ITS America, which could be expected to promote the ITS markets by local and/or regional business entities to be connected and networked globally.

组织者 :
MUN KEE CHOI, Korea Advanced Institute of Science & Technology (KAIST), Republic of Korea

主持人 :
YOUNG-JUN MOON, Korea Advanced Institute of Science & Technology (KAIST), Republic of Korea

演讲者 :
SANKGI KIM, KAIST, Republic of Korea
YONGYAO YANG, Zhejiang SUPCON Information, China
DOOGON KIM, Seoul Robotics, Republic of Korea
WEI ZHANG, TECH Traffic Engineering Group Co., LTD., China

SIS49 HOW CAN INTELLIGENT CONNECTED VEHICLES ACHIEVE COMMERCIAL APPLICATION OF VEHICLE-ROAD COORDINATION?

2023 年 10 月 20 日，星期五 | 11:00-12:30 | < 会议室 : 2（A214-A215） >

The session is jointly organized by TTS, Wuhan University of Technology and iSmartWays. The session will focus on the hot research direction of vehicle-road coordination commercial application in the field of intelligent vehicles, inviting authoritative experts and industry elites from well-known domestic and foreign vehicle enterprises, traffic safety research institutes, government departments, national intelligent transportation operators, public security traffic management departments, and industry-leading enterprises to jointly explore the opportunities and implementation paths of vehicle-road coordination commercial application from the perspective of whole vehicle manufacturers.

组织者 :
MANDY XIA, iSmartWays, China

主持人 :
YI HE, Wuhan University of Technology, China

演讲者 :
XUFEI WANG, Dongfeng Motor Corporation, China
JINGTAO MA, TTS, China
YAN LI, Qualcomm, China
TONY QIU, iSmartWays, China

SIS50 EXPLORATION AND PRACTICE: INNOVATION OF SMART TRANSPORTATION TO DRIVE DIGITAL TRANSFORMATION

2023 年 10 月 20 日，星期五 | 11:00-12:30 | < 会议室 : 3（A212-A213） >

This session will be based on several typical advanced applications integrated with AIoT technology, such as AIRoad, EICAD, smart AIops, Digital Twin, etc., to explore the important role of a large number of innovative applications of intelligent transportation in improving the construction and operational efficiency of the industry. These applications have been applied in multiple world-class highway projects and have contributed to improving efficiency. This session will also focus on the achievements of studying and applying digital twin innovative technologies for in-service highways, in order to improve the efficiency of highway construction and operation in further.

组织者 :
XUEWU DONG, China Design Group, China

主持人 :
JINZHANG JI, China Design Group, China

演讲者 :
HONG ZHOU, JiangSu Communications Holding Digital Transportation Research Institute Co.,Ltd., China
BIN XIAO, Jiangsu Delauney Infomation Co., Ltd., China
SHUAI HUA, Traffic Engineering Construction Bureau of Jiangsu Province, China
SHANSHAN DING, China Design Group, China
HONGGUANG XU, Anhui Transport Consulting & Design Institute Co., Ltd., China

SIS51 DATA SHARING TO IMPROVE SAFETY AND MOBILITY IN CONNECTED TRANSPORTATION SYSTEM

2023 年 10 月 16 日，星期一 | 16:00-17:30 | < 会议室 : 5（A203-A204） >

As our transportation system becomes more connected, the operation and user experience are enhanced through data sharing among the stakeholders. This session aims to invite leading organizations to share their vision, experience, and technical approach, as well as the lessons learned. The speakers include governments, private entities, and safety and mobility system experts from the ground transportation, and air mobility industry in various global regions.

组织者 :
SUE BAI, Honda, United States

主持人 :
TBD

演讲者 :
SUZANNE MURTHA, AECOM, United States
XIAONING FU, Beijing Intelligent Transportation Development Center, China
KAZUNORI FUJIMORI, Toyota, Japan
ERIC CHEN, Amazon, China

SIS53 SMART PARKING ASSISTS THE CONSTRUCTION OF SMART CITIES

2023 年 10 月 20 日，星期五 | 14:00-15:30 | < 会议室 : 2（A214-A215） >

The rapid development of smart parking in China has effectively promoted the development of smart cities. This forum focuses on the construction of smart parking platforms in China, the construction of urban level parking information platforms in Suzhou, the construction of parking index in Jiangsu Province, and the research results of parking information technology at the parking lot level，etc,

组织者 :
DASONG GU, Southeast University, China

主持人 :
DASONG GU, Southeast University, China

演讲者 :
DUNDUN LI, Suzhou Genland Ipark Technology Co.Ltd, China
XIAOQIANG WANG, Jiangsu Ninebit Information Systems Co., Ltd., China
MING LI, Jinling Institute of Technology, China
CHU ZHANG, Southeast University, China
SHUDANG DIAO, Beijing Intelligent Transportation Development Center, China
DONG LIU, Beijing Baidu Netcom Science Technology Co., Ltd., China

SIS54 HOW MICROSIMULATION CAN HELP TO FORESEE AND OPTIMIZE THE IMPACT OF CAV ON URBAN TRAFFIC

2023 年 10 月 20 日，星期五 | 14:00-15:30 | < 会议室 : 3（A212-A213）>

Microscopic simulation reflects the state of the art approach to create digital twins of specific traffic situation or in general traffic areas. It contains information about the traffic network, the control through signals etc. and the traffic participants and their behavior and interaction. In such a simulation the effect of different behaviors of automated vehicles as well as effects of their communication among each other or with a connected infrastructure can be modeled. This enables for a detailed evaluation of the impact of different technologies and strategies in various categories like traffic flow, environmental impact, road safety etc. The session brings together experts from Asia, Europe and the United Stated to share an international perspective. It combines the domains of automotive development, traffic planning as well as advanced traffic infrastructures.

组织者 :
SHEN CHANG, PTV Software Technology (Shanghai) Co., Ltd., China

主持人 :
SHEN CHANG, PTV Software Technology (Shanghai) Co., Ltd., China

演讲者 :
MATTHIAS PFRIEM, PTV Planung Transport Verkehr GmbH, Germany
JIA HU, TONGJI UNIVERSITY, China
YOSHIAKI IRIE, TOYOTA MOTOR CORPORATION, Japan

SP01 CLIMATE GOALS AND ACTION PLANS IN TRANSPORT

2023 年 10 月 16 日，星期一 | 14:00-15:30 | < 会议室 : 6（A106） >

主持人：FAN ZHANG, Research Institute of Highway Ministry of Transport, China

论文：

ID93	Research on Operating Cost of The Carbon Quota Accounting Based on The Time Division of New Energy Bus	SHUPEI GAO, Zhengzhou Tiamaes Technology, China
ID335	Assessing Progress Towards Achieving The Transport Dimension of The SDGs in China	XIAOFEI LIU, Research Institute of Highway, Ministry of Transport, China
ID438	Dynamic Calculation and Spatial-Temporal Distribution Characteristics of Vehicle Carbon Emissions	JUNYUE WANG, Beijing Jiaotong university, China
ID173	Modeling and Evaluating Multi-Objective Dynamic Eco-Routing System under Connected Environment	HAO YANG, McMaster University, Canada

SP02 ITS TECHNOLOGY FOR TRAFFIC SAFETY

2023 年 10 月 16 日，星期一 | 14:00-15:30 | < 会议室 : 7（A105） >

主持人：JIAN XING, Nippon Expressway Research Institute Co., Ltd., Japan

论文：

ID283	Crash Risk Prediction of Mixed Traffic with Connected and Automated Vehicles Using BPNN	CHANGHAO RAN, Wuhan University of Technology, China
ID251	Simulation and Evaluation of the Lane Compression Strategy for the Upstream Section of the Tunnel Entrance -an example of Sanduling Tunnel in Wenzhou	YUXUAN LI, Beijing University Of Technology, China
ID321	Risk Identification and Influence Factor Analysis of Different Sections of High-Speed Tunnel Based on Multi-Source Data	JIANG YANG, Zhejiang University, China
ID371	Traffic Risk Distribution in Different Characteristic Sections of Highway Tunnel	RUI GUO, Beijing University of Technology, China

SP05 ENERGY, NOISE AND ENVIRONMENTAL IMPACTS

2023 年 10 月 17 日，星期二 | 11:00-12:30 | < 会议室 : 6（A106） >

主持人：HONGDAN WANG, Research Institute of Highway Ministry of Transport, China

论文：

ID274	Construction of NOx Emission States Identification Method of Diesel Bus Based on Judgment Matrix: A Case Study of Nanjing	ZIXIN LIU, Southeast University, China
ID399	An Ensemble Energy Consumption Predicting Model Based on K-Means-Lstm for Logistic Vehicles in a Metropolitan Suburb	QIUYI ZHANG, Beijing University of Technology, China
ID342	Towards Energy-Efficient Mobility in Connected Vehicle Environments	YASHAR ZEIYNALI FARID, InfoTech Labs, Toyota Motor North America R&D, United States

SP06 MULRIMODAL TRAVEL INFORMATION AND PLANNING SERVICES & BIKE SHARING

2023 年 10 月 17 日，星期二 | 11:00-12:30 | < 会议室 : 7（A105） >

主持人：HUI XIAO, Big Data Research and Development Center, Rioh, Mot. China, China

论文：

ID462	Research and Design of Control Strategies for Multiple Transportation Modes in Urban Road Networks	JIAXIN WANG, North China University of Technology, China
ID322	Temporal Correlation-Based Catchment Area Radius Analysis Between Subway and Docked Shared Bikes	YINING DI, Hong Kong Univeristy of Science and Technology, China
ID298	Last-mile Shared Mobility based on Vehicle-Road-Cloud Coordination, Concept, Technologies, and Scenarios	MENGCHI CAI, Tsinghua University, China
ID143	Multi-Task Supply-Demand Prediction and Reliability Analysis for Docked Bike-1 Sharing Systems via Transformer-Encoder-Based Neural Processes	ZIYI SHI, Zhejiang University, China

SP07 ELECTROMOBILITY & MOBILITY AS A SERVICE

2023 年 10 月 17 日，星期二 | 14:00-15:30 | < 会议室 : 6（A106） >

主持人：LI ZHAO, Research Institute of Highway Ministry of Transport, China

论文：

ID443	Modeling of Energy Consumption for Electric Buses Considering The Impacts of SOC	XUE LEI, Beijing Jiaotong University, China
ID451	Analysis on Electric Vehicles' Inter-city Charging Choice Behavior and Charging Demand	ZHAOHUI WANG, Beijing Jiaotong University, China
ID464	Spatio-Temporal Characteristics and Causative Analysis of Electric Vehicle Collisions with Pedestrians	YAN ZHUANG, Beijing Jiaotong University, China
ID294	Research on the development path of MaaS platforms in China	WENKAI ZHAN, Guangdong University of Technology, China
ID151	Enhancing Road Cellular Traffic Prediction with Spatial-Temporal Joint Learning and Temporal Pattern Analysis	CHUNG-YI LIN, Chunghwa Telecom, Taiwan, China
ID468	Analysis and Modeling of Residents Travel Behavior under MaaS	DAQIAN WAN, Beijing Jiaotong University, China

SP08 MULTIMODAL JOURNEY PLANNER & INTELLIGENT SUPPLY CHAIN AND LOGISTICS

2023 年 10 月 17 日，星期二 | 14:00-15:30 | < 会议室 : 7（A105） >

主持人：IN-HI KIM, KAIST, Republic of Korea

论文：

ID324	Travel Time Prediction Method with Multi-Graph Traffic Network Model	MENGYUN XU, Wuhan University of Technology, China
ID234	Optimization of Personalized Route Recommendation Model Based on User Profile	QIANQIAN YE, Zhejiang University, China
ID255	Multi-Modal Travel Simulation and Travel Behavior Analysis: Case Study in Shanghai	YUE HU, Ministry of Education, Tongji University, China
ID140	Research on Existing Problems and Solutions on Last Mile Logistics under the Context of Rural Revitalization in China	YANHONG LI ,Science Research Institute of the Ministry of Transport,China

SP11 SENSORS AND PERCEPTION METHODS FOR AUTOMATED VEHICLES

2023 年 10 月 18 日，星期三 | 11:00-12:30 | < 会议室 : 6（A106） >

主持人：NORIYUKI TSUKADA, Isuzu Motors Limited, Japan

论文：

ID152	LaneCL: Lane Detection Based on Continual Learning for Multiple Scenarios	JIANLI LU, Tsinghua University, China
ID242	Full-Automatic Collection and Release of Pavement Performance Information	JIANTAO LI, Tsinghua University, China
ID410	Research on Operating State Reliability Monitoring of Sensing Devices	BICHENG XU, Shanghai JARI Zhaoxin Information Techbology Co., Ltd, China
ID202	Geometry Based Camera Calibration for Bev Transform Using Road Edge and Lane Marker	QIRUI ZHANG, Sensetime Japan, Japan

SP12 ITS IN AIRPORT GROUND OPERATIONS & WATERWAY TRANSPORT APPLICATIONS AND 5G SOLUTION

2023 年 10 月 18 日，星期三 | 11:00-12:30 | < 会议室 : 7（A105） >

主持人：LIN ZHANG, Beijing Jingwei Hirain Technologies Co., Inc., China

论文：

ID277	Airport Ferry Bus Scheduling to Minimize Operational Cost and Service Delay	JIANZE SONG, Beijing Jiaotong Unviersity, China
ID348	Research on Dynamic Optimal Scheduling of airport special vehicles in complex operating environment	YONGHONG LIU, Tech Traffic Engineering Group Co.,Ltd, China
ID253	Research on the Dynamic Dispatching Meth-od of the Transport Capacity of the Tourist Bus in Guilin	JINCAN ZHANG, Hohai University, China
ID273	Optimal Design of Tourist Routes Under The Time-Sharing Reservation Strategy	YAN HAN, Beijing Key Laboratory of Traffic Engineering, China
ID472	Delay Characteristics of Inland Waterway Vessel Following	XUEJIAN YAO, Southeast University, China
ID199	A Tailored Optimization Methodology for Direct Transshipment	LIANGQI CHENG, Tsinghua University, China

SP13 NEW ADVANCES IN V2V, V2I AND V2X TECHNOLOGY

2023 年 10 月 18 日，星期三 | 14:00-15:30 | < 会议室 : 6（A106） >

主持人：ZHIJUN CHEN, Wuhan University of Technology, China

论文：

ID212	Transportation Management System for Autonomous Commercial Vehicle	HUAJIAN LI, Research Institute of Highway Ministry of Transport, China
ID172	Curb Detection and Mapping via Robust Iterative Gaussian Process Regression	DI WANG, Suzhou Plus Inc, China
ID163	A Correlation Degree Calculation Approach for External and Internal Technologies in Autonomous Transportation Systems	KE HUANG, Sun Yat-sen University, China
ID206	Service Set Architecture for Autonomous Transportation System	SHUAI MA, Shanghai Jiao Tong University, China
ID278	Pedestrian-In-the-Loop Driving Risk Prediction: System Design and Real-World Implementation	RAJESH KUMAR MALHAN, DENSO, United States

SP14 CLOUD COMPUTING, EDGE COMPUTING, ARTIFICIAL INTELLIGENCE, DIGITAL TWINS, BLOCKCHAIN IN TRANSPORTATION & CYBERSECURITY AND DATA SECURITY FOR TRANSPORT

2023 年 10 月 18 日，星期三 | 14:00-15:30 | < 会议室 : 7（A105） >

主持人：JINPING GUAN, Harbin Institute of Technology (Shenzhen) and Massachusetts Institute of Technology, China

论文：

ID329	A Two-Stage Multi-Label Classification Approach for Traffic Events Identification Using Sina Microblog Texts	ZIHAO HUANG, South China University of Technology, China
ID471	Research on The Application of Object Detection and Tracking Technology in Abnormal Event Detection on Highways	JIE WANG, Jinling Institute of Technology, China
ID407	Vehicle Trajectory Generation Based On Generation Adversarial Network	SIJIA XIANG, North China University of Technology, China

SP15 V2X COMMUNICATION TECHNOLOGIES AND COOPERATIVE SYSTEMS

2023 年 10 月 18 日，星期三 | 16:00-17:30 | < 会议室 : 6（A106） >

主持人：GONZALO ALCARAZ, International Road Federation (IRF), Switzerland

论文：

ID114	Multi-Objective Resource Allocation for High-density V2V Underlaying Cellular Network Integrated NOMA	SHIQIAN GUO, South China University of Technology, China
ID266	Bus Priority Signal Control Method with Vehicle-Roadside-Cloud Cooperation	YUNFEI YANG, Tsinghua University, China
ID357	A Mobile Application for Road Sensing and V2X Services	JOAQUIM FERREIRA, Instituto de Telecomunicações, Portugal
ID442	Decentralized Longitudinal and Lateral Cooperative Motion Control for Connected and Automated Vehicles Merging at On-ramps	SHOUCAI JING, Chang'an University, China

SP16 REAL-TIME INFORMATION, INTELLIGENT TRAFFIC MANAGEMENT

2023 年 10 月 18 日，星期三 | 16:00-17:30 | < 会议室 : 7（A105） >

主持人：SADAHIRO KAWAHARA, JTEKT Corporation, Japan

论文：

ID218	Signal Timing Estimation Using Point Detectors	XIAOQIN LUO, Wuhan Planning and Design Institute, China
ID450	Multi-Agent Based Model-Free Adaptive Coordinated Control for Single Intersection signal timing	XIAOYAN LA, North China University of Technology, China
ID453	Delay-based Effectiveness Evaluation of Arterial Signal Coordination	XINPENG LI, Tongji University, China
ID397	Design of The Complex Parking Lot Guidance System	GUANG YANG, Southeast University, China

SP17 SIMULATION AND MODELLING

2023 年 10 月 19 日，星期四 | 09:00-10:30 | < 会议室 : 6（A106） >

主持人：KAREN CHEUNG, Managing Director, Aimsun Pte Ltd, Singapore

论文：

ID338	Capacity Analysis of Mixed Traffic Flow at a Signalized Intersection	YUEHAI HU, Tongji University, China
ID428	Genetic Neural Network-Based Fault Diagnosis for Bus Systems	XIAOTIAN FU, North China University of Technology, China
ID465	The Study of Cooperative Merging Model Based on The Assignment Model for Connected and Automated Vehicles	WEI HUANG, Nanjing Tech University, China
ID292	The Macroscopic Evolutionary Model of Autonomous Transportation System Based on The Revised Petri Nets	SHUAI MA, Shanghai Jiao Tong University, China
ID323	Modified Macroscopic Parking Dynamics Modeling with Fuzzy-Based Real-Time Pricing	ZENGYU CHEN, North China University of Technology, China

SP18 FUTURE RAIL EXPERIENCE

2023 年 10 月 19 日，星期四 | 09:00-10:30 | < 会议室 : 7（A105）>

主持人：SADAHIRO KAWAHARA, JTEKT Corporation, Japan

论文：

ID241	Research on Collaborative Compilation Method of Service Train Operation Plan and Timetable Based on Multi-granularity Space-Time Network	XHI XHAO, Beijing Jiaotong University, China
ID454	Urban Rail Transit Short-Term Od Flow Prediction Considering Temporal-Spatial Characteristics and Probability	YUE WANG, Beijing Jiaotong University, China
ID378	Short-Term Passenger Flow Forecast of Urban Rail Transit Based on Particle Swarm Optimization Algorithm	SONG HU, Research Institute of Highway Ministry of Transport, China
ID350	Factors Recognition and Thershold Analysis of Congestion Propagation in Urban Rail Transit System	ZHIHUA XIONG, Beijing Jiaotong University, China

SP19 IMPACT, COST-BENEFIT AND RISK ASSESSMENT FOR AUTOMATED VEHICLES

2023 年 10 月 19 日，星期四 | 11:00-12:30 | < 会议室 : 6（A106） >

主持人：JIAN XING, Nippon Expressway Research Institute Co., Ltd., Japan

论文：

ID133	Designing a Connected and Automated Vehicle Testing and Evaluation Platform Using Odd a Case Study in Suzhou	CHUAN SUN, Suzhou Automotive Research Institute, Tsinghua University, China
ID84	Key Indicators of The Lateral Controllability in Hands-Free Automated Driving	LUOYI HUANG, Tongji University, China
ID130	A Lightweight Framework for Misbehavior Detection in Internet of Vehicles	YUJING GONG, South China University of Technology, China
ID315	Analysis of The Severity of Road Property Damage in Highway Accidents	WENHAN SHI, South China University of Technology, China

SP20 PREDICTIVE NETWORK MANAGEMENT, INFLUENCING TRAVELER BEHAVIOR, CITIZENS ENGAGEMENT AND CO-CREATION

2023 年 10 月 19 日，星期四 | 11:00-12:30 | < 会议室 : 7（A105） >

主持人：ANDREW MEHAFFEY, HMI Technologies Pty Ltd, Australia

论文：

ID182	Interpreting XGBoost for Traffic Flow Forecasting	XIAO ZHENG, The University of Melbourne, Australia
ID179	Difference in The Attention to Road Elements Against Driver Experience	HUI XU, CCDI (Suzhou) Exploration & Design Consultant CO., Ltd, China
ID459	An Improved Spatio-Temporal Network Traffic Flow Prediction Method Based on Impedance Matrix	WENHAO LI, Beijing University of Technology, China

SP21 PILOTS, TRIALS AND TESTS OF INTELLIGENT AND AUTONOMOUS VEHICLES

2023 年 10 月 19 日，星期四 | 14:00-15:30 | < 会议室 : 6（A106） >

主持人：HONGHAI LI, Research Institute of Highway Ministry of Transport, China

论文：

ID146	Rear-Vehicle Behavior Awareness System to Avoid Rear-End Collisions	SEYHAN UCAR, InfoTech Labs,Toyota North America R&D, United States
ID452	Lateral Control of Autonomous Vehicle with Data Dropout via an Enhanced Data-driven Model-free Adaptive Control Algorithm	YUHAO YAN, North China University of Technology, China
ID455	Path Tracking Control of Autonomous Vehicle under the Measurement Disturbance via a Novel Robust Model Free Adaptive Control Algorithm	GUANG LIN, North China University of Technology, China

SP23 NEXT GENERATION TRAFFIC MANGEMENT

2023 年 10 月 19 日，星期四 | 16:00-17:30 | < 会议室 : 6（A106） >

主持人：MIKE RUDGE, Rudge Consulting, New Zealand

论文：

ID209	Full Field Deformation Measurement of Traffic Bridge with a Smartphone	WENKANG DU, Hohai university, China
ID189	Localization of Optic Fiber Cables for Traffic Monitoring Using DFOS Data	HEMANT PRASAD SHIVSAGAR, NEC Corporation, Japan
ID406	SimIFW: An integrated Simulation Platform for Intelligent Freeway	CHENGDONG LI, Chang'an University, China
ID316	Urban Expressway Lane-Reservation Effect Analysis Based on Detected Data and Simulation	MIAO YANG, Tongji University, China

SP24 DATA ANALYTICS FOR TRAFFIC MONITORING AND MANAGEMENT

2023 年 10 月 19 日，星期四 | 16:00-17:30 | < 会议室 : 7（A105） >

主持人：TAKAAKI SEGI, ITS Japan, Japan

论文：

ID375	Resilience Analysis of Multi-Modal Transportation Networks, Taking Beijing-Tianjin-Hebei Region as an Example	SHUYAN ZHENG, Beijing University of Technology, China
ID191	Analysis of Lane-changing Characteristics Based on WUT-NGSIM Data	YANG ZHAO LI, Wuhan University of Technology, China
ID225	Using License Plate Recognition Data to Gain Insight into Urban Travel Time Distributions	XIAOQIN LUO, Wuhan Planning and Design Institute, China
ID232	Trip Purpose Prediction Based on Neural Topic Model with Multiple Source Data	QIANQIAN YE, Zhejiang University, China
ID252	Vehicle Spatial and Time Trajectory Filling Based On Dynamic Road Network	RUOJIAN LI, Zhejiang University, China

SP25 INTELLIGENT EMERGENCY AND INCIDENT MANAGEMENT

2023 年 10 月 20 日，星期五 | 11:00-12:30 | < 会议室 : 5（A203-A204） >

主持人：QUAN YUAN, Tsinghua University, China

论文：

ID347	Emergency Management Research for Early Transmission Path Interdiction of Major Emerging Infectious Diseases in Urban Bus Transit Networks	YUE PAN, Zhejiang University, China
ID166	Evaluation of The Operational Types of An Auxiliary Lane at Motorway Bottlenecks	JIAN XING, Nippon Expressway Research Institute Co., Ltd., Japan
ID295	Research on collaborative scheduling methods for multi- unmanned intelligent systems in water search and rescue scenarios	HANGXIONG ZHU, Guangdong University of Technology, China

TS01 MOBILITY AS A SERVICE

2023 年 10 月 16 日星期一 | 14:00-15:30 | < 会议室 : 8（A104） >

主持人：JINPING GUAN, Harbin Institute of Technology (Shenzhen) and Massachusetts Institute of Technology, China

论文：

ID231	The Impact of MaaS on Future Car Travel	YIFAN HU , Tongji University, China
ID238	Comparative Analysis of MaaS Platform Construction and Operation Modes in Different Cities of China	XIANGLONG LIU, China Academy of Transportation Sciences, China
ID475	Framework and Business Model Development of Highway Traveler Information System Based on MaaS	KUN CHEN, Transport Planning and Research Institute, Ministry of Transport, China
ID305	Study for Finding Mobility as A Service Users in Thailand	RATCHAKORN Pakpisutkul, Chulalongkorn University, Thailand
ID394	Maas Smart Travel	SORAWIT NARUPITI , TECH TRAFFIC ENGINEERING GROUP COMPANY LIMITED, China
ID233	Flexible Bus Optimal Dispatching Model Under Low Passenger Demand	XINYAN ZHANG , The Key Laboratory of Road and Traffic Engineering of the Ministry of Education, China
ID365	The Study Of A Shared Autonomous Vehicles Travel Service Strategy	MENG ZHANG , China Unicom Smart Connection Technology Limited South China Branch, China

TS02 V2X COMMUNICATION TECHNOLOGIES AND COOPERATIVE SYSTEMS (1)

2023 年 10 月 16 日星期一 | 14:00-15:30 | < 会议室 : 9（A103） >

主持人：PAUL XIA, ITS Hong Kong, HKSAR, China

论文：

ID144	A Communication Channel Allocation Method Considering Competition at The Intersection	YINING REN, Tongji University, China
ID247	A Cooperative Control Method of Autonomous Roundabout Based on Token Ring	YUXIN NIU , Research Institute of Highway, Ministry of Transport, China
ID447	Human-like Strategy in Multi-vehicle Interactions at Signal-free Intersections	DIAN JING, Beijing Jiaotong University, China

TS03 CLOUD COMPUTING, EDGE COMPUTING, ARTIFICIAL INTELLIGENCE, DIGITAL TWINS, BLOCKCHAIN IN TRANSPORTATION (1)

2023 年 10 月 16 日，星期一 | 14:00-15:30 | < 会议室 : 10（A102） >

主持人：JOHN PADDINGTON, ERTICO - ITS Europe, Belgium

论文：

ID157	Research on Cloud Control Platform of Intelligent and Networked Public Transport Based on BIM Technology	XITONG XIA, Nanjing University of Science and Technology, China
ID82	Machine learning in traffic signals prediction: two intersections in Hanover	FENG XIE, Institute of Automation and Communication, Germany
ID97	Vehicle Allocation Method for Mixed Passenger Transportation and Parcel Delivery Service in On-demand Transport	AOI KOIZUKA, KDDI Corporation, Japan
ID118	Thermal Feasibility Verification by 1D Computer Aided Engineering	YUKI LIDA , Panasonic Automotive Systems Co., Ltd., Japan
ID155	Privacy-Preserving Data Sharing for Automotive Applications	LEI CHEN, RISE Research Institutes of Sweden, Sweden

TS04 CLIMATE GOALS AND ACTION PLANS IN TRANSPORT

2023 年 10 月 16 日，星期一 | 16:00-17:30 | < 会议室 : 8（A104） >

主持人：JUNSHENG FU, Technical Expert in in Localization and Road Estimation at Zenseact, Sweden

论文：

ID373	Application of Photovoltaic Technology in Expressway Service Area	WANG LEI, Beijing, China Highway Engineering Consultants Corporation, Tech Traffic Engineering GR UP CO.,LTD, China
ID416	Research on the Digital Transformation Path of Transportation Industry for Carbon Peak and Carbon Neutrality	LILI ZHU, Research Institute of Highway Ministry of Transport, China
ID90	Decarbonising The Brenner Motorway: Vision, Challenges, Solutions	ILARIA DE BIASI, Autostrada del Brennero SpA, Italy
ID145	Solutionsplus – Boosting The Electrification of Public Transport by 5(6)G Enabled Carbon Credits	LI WAN , China-Link Invest (Li Wan SRL), Belgium
ID103	Sustainable Mobility For Flourishing Communities	MENG LU, Swarco Peek, Netherlands

TS05 V2X COMMUNICATION TECHNOLOGIES AND COOPERATIVE SYSTEMS (2)

2023 年 10 月 16 日，星期一 | 16:00-17:30 | < 会议室 : 9（A103）>

主持人：CHARLES KARL, Transport Futures, Australia

论文：

ID176	SIP Second Term's Field Operational Test Result Traffic Signal Information Using V2N (Cloud and Other Technologies) Toward Social Implement	YUICHI TAKAYANAGI, Panasonic Connect Co.,Ltd, Japan
ID219	Construction of a Wireless Performance Evaluation Environment with Vehicle	SHIGEAKI SAKURAZAWA, Panasonic Automotive Systems, Japan
ID349	Research on The Application of Network Trust System for Cooperative Vehicle Infrastructure System	XINMING MEI, Beijing GOTEC ITS Technology Co.,Ltd, China

TS06 CLOUD COMPUTING, EDGE COMPUTING, ARTIFICIAL INTELLIGENCE, DIGITAL TWINS, BLOCKCHAIN IN TRANSPORTATION (2)

2023 年 10 月 16 日星期一 | 16:00-17:30 | < 会议室 : 10（A102） >

主持人：HADJ HAMMA TADJINE, IAV, Germany

论文：

ID235	Federated Learning for Automotive Applications	FLORIAN PINZEL , DENSO Automotive Deutschland GmbH, Germany
ID386	Digital twin simulation platform for Intelligent Cooperative vehicle-infrastructure Systems based on unity3D	XINGJIE YANG, Chang'an University, China
ID400	A Framework for Highway Asset Management System Based on Digital Twin	JIERUI ZHU, Research Institute of Highway Ministry of Transport, China

TS08 V2X COMMUNICATION TECHNOLOGIES AND COOPERATIVE SYSTEMS (3)

2023 年 10 月 17 日，星期二 | 11:00-12:30 | < 会议室 : 9（A103） >

主持人：FRED KALT，Yunex Traffic, Singapore

论文：

ID123	CPM Significance Index for Redundancy Mitigation	TIM LEINMUELLER, Denso Automotive D. Gmhh, Germany
ID259	Practice and Application of VICAD Scenarios in Suzhou	DENGJIANG WANG,Beijing VanJee Technology Co., Ltd., China
ID263	Implementation and Practice of Sensor Data Sharing Application based on C-V2X in China	HUI DENG, National Engineering Research Center of Mobile Communications and Vehicular Networks, China
ID320	Proposal of V2X System Intended to Complement ADAS	NORIYUKI TSUKADA, Isuzu Motors Limited, Japan
ID217	Autonomous Vehicle Mobility Services with Building Microservice Orchestration	FUKU HIMURO, Shimizu Corporation, Japan

TS09 ARTIFICIAL INTELLIGENCE & CROWDSOURCING AND BIG DATA ANALYTICS

2023 年 10 月 17 日，星期二 | 11:00-12:30 | < 会议室 : 10（A102） >

主持人：XIANG WANG, Soochow University, China

论文：

ID466	Research On Space-Time And Network Characteristics Of Intercity Passenger Flow During The Spring Festival Transportation	HAIPENG WANG , Research Institute of Highway, Ministry of Transport, China
ID156	Safety-Affecting Factors Analysis Of National Trunk Highway System Based On The Interpretable Machine Learning Framework	QIANG ZHAO, VanJee Technology Co,Ltd, China
ID88	Research on Vehicle Type Identification Systems Using Advanced Image Processing Techniques	KENTA YAMAMOTO , Nippon Expressway Toll Technology Co., Ltd., Japan
ID112	The Research on Algorithm for Roads Closure Removal Based on Big Data Analysis of Traffic Trajectory	YINUO HUANG，Toyota，China

TS10 ENERGY, NOISE AND ENVIRONMENTAL IMPACTS

2023 年 10 月 17 日，星期二 | 14:00-15:30 | < 会议室 : 8（A104）>

主持人：HONGDAN WANG, Research Institute of Highway Ministry of Transport, China

论文：

ID86	Deep Learning Method for Traffic Noise Separation	MINMIN YUAN , Research institute of highway ministry of transport， PRC, China
ID194	Traffic Noise Prediction and Evaluation based on Acoustic Functional Zones at Night	WENHAO ZHANG , Beijing University of Technology, China
ID425	Unet-Based Evaluation of Road Traffic Noise Annoyance	XUEJIAN WANG, Guangzhou University, China
ID461	A Dispersion Model of Vehicle Exhaust Pollutants Near Major Roads in Shenzhen	QIUJIAN DONG, Shenzhen Urban Transport Planning Center Co., Ltd, China

TS11 V2X COMMUNICATION TECHNOLOGIES AND COOPERATIVE SYSTEMS (4)

2023 年 10 月 17 日，星期二 | 14:00-15:30 | < 会议室 : 9（A103）>

主持人：HENDRA TJIOE, Head of Sales, Yunex Traffic, Singapore

论文：

ID392	Safety Maintenance and Effectiveness Enhancement for Highway On-Ramp Merging in Autonomous Driving with V2X-Enabled Cooperative Perception	FENG WEN , Continental Holding China Co., Ltd, China
ID351	Development Overview and Future Trends of Smart Highway	WANJUN LI, Research Institute of Highway Ministry of Transport, China
ID388	Research on Highway Video Cloud Networking Test Method Based on Video Image Quality Evaluation	WEI CUI, Beijing GOTEC ITS Technology Co., Ltd., China

TS12 AVAILABILITY, QUALITY AND VISUALIZATION OF DATA & NEW TYPE DETECTORS AND SENSORS

2023 年 10 月 17 日，星期二 | 14:00-15:30 | < 会议室 : 10（A102）>

主持人：HUI DENG, CICT Connected and Intelligent Technologies Co., Ltd, China

论文：

ID135	Quantifying Volatility Characteristics of Passenger Flow in The Metro Stations Based on The Rolling-Window Analysis	ZHAO LIU, Nanjing Institute of Technology, China
ID243	A Meta-Learning Model For Estimating Mixed Traffic Flow Of Signalized Intersections Using Cellular Probe Data	CHUNG-YI LIN , chunghwa telecom, Taiwan, China
ID258	Audit Box: Vehicle Assessment And Jamming Attacks Detection In Ccam Environments	MANEL RODRÍGUEZ RECASENS , Applus IDIADA, Spain
ID138	A Multi-Path Pipeline Based Trust Routing For Bulk Data Transfer In Wireless Sensor Networks	XIAOHUAN LIU , CHINA ACADEMY OF RAILWAY SCIENCES, China

TS13 ELECTROMOBILITY AND EV CHARGING INFRASTRUCTURE

2023 年 10 月 17 日，星期二 | 16:00-17:30 | < 会议室 : 8（A104） >

主持人：JOHN PADDINGTON, ERTICO - ITS Europe, Belgium

论文：

ID244	Joint Optimization of Bow-type Fast Charger Locations and Battery Capacity for Electric Buses	LIBING LIU, Tongji University School of Transportation Engineering, China
ID359	Research on Braking Control Strategy of Distributed Electric Vehicle Based on Vehicle Velocity Prediction	MEIYING LI, Chang'an University, China
ID445	International Standard for Electric Road System	JUNICHI HIROSE, Highway Industry Development Organization, Japan
ID246	Vulnerability Assesment of The Charging Process Between Vehicle and Charging Point	MIGUEL MARTINEZ MONTOYA, Applus Idiada, Spain

TS14 SIMULATION AND MODELLING

2023 年 10 月 17 日，星期二 | 16:00-17:30 | < 会议室 : 9（A103） >

主持人：ALAN QUEK, Regional Head, Business Development Southeast Asia, Aimsun Pte Ltd, Singapore

论文：

ID168	Trajectory Optimization at Signalized Intersections Based on Polynomial Functions	WANG MENG, Beijing Jiaotong University, China
ID264	Research on Multi-entity Co-simulation of Intelligent Vehicle Based on Distributed Message-oriented Middleware	LIPING PENG , Research Institute of Highway Ministry of Transport, China
ID470	Performance of Mixed Autonomy Traffic Flow in Weaving Sections: A Simulation-based Evaluation of Efficiency and Safety	DAQIAN WAN , Beijing Jiaotong University, China

TS15 INNOVATIVE USE OF ETC INFRASTRUCTURE FOR OTHER APPLICATIONS

2023 年 10 月 17 日，星期二 | 16:00-17:30 | < 会议室 : 10（A102） >

主持人：TAKEHIKO BARADA, ITS Japan, Japan

论文：

ID301	Innovative Use of ETC Infrastructure for Other Applications	KOKI TATEO, ITS Head Quarters, Mitsubishi Heavy Industries Machinery Systems, Ltd., Japan
ID358	ETC Extended Service Application Research	XU YU SHENG, Beijing CCCC Guotong Intelligent Transportation System Technology Co., Ltd, China
ID381	Research on Intelligent Ventilation Control Technology for Highway Tunnels Based on ETC Gantry Data	ZHAOZHI TANG, Jiaoke Transport Consultants Ltd, China
ID89	Expressway Toll Calculation By Graphillion	SHION SONODA , NIPPON EXPRESSWAY TOLL TECHNOLOGY CO., LTD., Japan
ID279	Based On Analysis Of Global Vehicle Classification Criteria To Achieve Accurate Toll Collection With Lidar	PING WANG , VanJee Technology Co, Ltd., China

TS16 MOBILITY FOR AGEING POPULATION

2023 年 10 月 18 日，星期三 | 11:00-12:30 | < 会议室 : 8（A104） >

主持人：TOSHIO ITO, Hyper Digital Twins Co., Ltd., Japan

论文：

ID421	Exploring the Critical Factors that Affect Green Travel Satisfaction Among Urban Elderly Population: A Case Study from Datong, China	YUQING LIU, Research Institute of Highway Ministry of Transport, China
ID431	Accuracy Evaluation of Driving Trajectory of Automated Electric Wheelchair Using DTW	XINGYANG ZHANG, Shibaura Institute of Technology, Japan
ID142	A Radar Detecting Pedestrians with Wide Vertical Coverage	RYOSUKE SASAKURA , Sumitomo Electric Industries, Ltd., Japan

TS17 PILOTS, TRIALS AND TESTS OF INTELLIGENT AND AUTONOMOUS VEHICLES

2023 年 10 月 18 日，星期三 | 11:00-12:30 | < 会议室：9（A103） >

主持人：GONZALO ALCARAZ, International Road Federation (IRF), Switzerland

论文：

ID91	The Brenner Motorway as a Living Lab for Testing CCAM	ILARIA DE BIASI, Autostrada del Brennero SpA, Italy
ID318	Implementation and Validation of Misbehavior Detection for V2X Systems	SEUNGYOUNG PARK, AUTOCRYPT, Co., Ltd. / Kangwon National University, Korea
ID404	The Use of Cooperative Driving Technology with Human Drivers	DAMIAN HORTON, Eloy, United Kingdom
D297	Interlaboratory Comparison for The Execution of Euro NCAP ADAS Tests	ALVARO ESQUER , Idiada Automotive Technology S.A., Spain

TS18 TRANSPORT INFRASTRUCTURE PREDICTIVE MAINTENANCE

2023 年 10 月 18 日，星期三 | 11:00-12:30 | < 会议室 : 10（A102）>

主持人：FRED KALT, Managing Director, Yunex Traffic, Singapore

论文：

ID175	Digital Operation and Maintenance System of Highway Infrastructure	YISHUN LI , Tongji University, China
ID261	Intelligent Operation And Maintenance Of Urban Rail Transit	DANLEI LU , Beijing Subway, China
ID353	Industry References on Key Technologies for Digitization of Highway Electromechanical Facilities	HENGYU LI, Research Institute of Highway Ministry of Transport, China
ID267	Study on Thermal Insulation Design and Heating Performance of Highway Toll Booth in Cold Region	JUN WANG, Harbin Transportation Research Institute Transportation Engineering Co.LTD, China

TS19 NEXT GENERATION HUMAN MACHINE INTERFACE AND HUMAN FACTORS

2023 年 10 月 18 日，星期三 | 14:00-15:30 | < 会议室 : 8（A104） >

主持人：NAOKAZU OZAKI, ITS Japan, Japan

论文：

ID281	Study on Contactless UI Operated Gesture Recognition in Omnidirectional Cameras	KOTA OGAWA, Systems Engineering and Science, Shibaura Institute of Technology, Japan
ID131	Behavior Analysis of Running Vehicles at The Lane Reduction Section Owing to Roadwork Lane Restriction on An Expressway	HIROYUKI OMIYA , Highway Planning Inc., Japan
ID174	Machine Embodied Interactive Intelligence	JIALUN YIN, Tsinghua University, China
ID328	A Feasibility Study of Distribution System Utilizing a Smart Speaker for Expressway Traffic Information	KAZUYA HIROTA, Keio University, Japan

TS20 ITS POLICY AND STRATEGY & STANDARDIZATION

2023 年 10 月 18 日，星期三 | 14:00-15:30 | < 会议室 : 9（A103） >

主持人：WOLFGANG TREINEN, Berlin Partner for Business and Technology, Germany

论文：

ID275	Malaysian Its Journey - Policies Challenges	AHMAD ZULHELMI AB HAMID, Malaysian Communications And Multimedia Commission (MCMC), Malaysia
ID374	Recent Developments of ITS in China	RU LI, China ITS Industry Alliance, China
ID169	Research on the Architecture of Cooperative Intelligent Transportation System in China	FAN ZHANG, RIOH High Science and Technology Group, China
ID120	Failsafe Operation: Considerations for Homologation Procedure	CARLOS LUJAN, IDIADA Automotive, Spain
ID334	Standardization Evaluation and Index System Construction of National Highway Network Operation	MINGYUE YAN , Highway Monitoring & Emergency Response Center, Ministry of Transport of the P.R.C, China
ID331	A Review of Standardization Approaches for Vehicle Data Specifications	FLORIAN PINZEL, DENSO Automotive Germany GmbH, Germany

TS24 ITS TECHNOLOGY FOR TRAFFIC SAFETY (1)

2023 年 10 月 18 日，星期三 | 16:00-17:30 | < 会议室 : 10（A102） >

主持人：HENDRA TJIOE, Head of Sales, Yunex Traffic, Singapore

论文：

ID165	Event Detection by Image Processing of CCTV Camera Images	HIROYUKI KAMEOKA, Central Nippon Expressway Company Limited, Japan
ID167	An Analysis of The Effectiveness of Countermeasures to Prevent Wrong-Way Driving on Expressways	HIROAKI SAKAMOTO, Nippon Expressway Research Institute Co., Ltd. (NEXCO-RI), Japan
ID216	Configuration And Responsibilities Of Safety Inspector For Autonomous	HUAJIAN LI , Research Institute of Highway Ministry of Transport, China
ID382	Early Warning and Control Technology for Severe Weather on Highways	YUANYUAN HA , JIAOKE TRANSPORT CONSULTANTS LTD, China

TS25 SENSORS AND PERCEPTION METHODS FOR AUTOMATED VEHICLES (1)

2023 年 10 月 19 日，星期四 | 09:00-10:30 | < 会议室 : 8（A104） >

主持人：NOBUYUKI OZAKI, Nagoya University, Japan

论文：

ID296	Infrastructure-Based Automated Driving System for Mobility Scooter	SHELL YAMAUCHI, Shibaura Institute of Technology, Japan
ID230	A Lane Detetion Based on Machine Vision for Lane Departure Warning System	LANDA GAO, Institute of Highway Science, Ministry of Transport, China
ID239	An Improved Method Based on Fusion of Image and Lidar for 3D Vehicle Detection in Foggy Environment	SHAOKANG NIU, Chang'an University, China
ID248	CareFusion: You Can Never be too Careful in Lidar and Camera Fusion	ZHAO CHEN, South China University of Technology, China
ID256	Estimation of Object Detection Uncertainty by Cross-Matching Through Occupancy Grid Map	XINYU JIAO, Tsinghua University, China
ID430	Integration Of Indoor And Outdoor Navigation For First Responders Among Moving Obstacles	ZHIYONG WANG , South China university of technology, China

TS26 DATA COLLECTION AND FUSION TECHNOLOGIES

2023 年 10 月 19 日，星期四 | 09:00-10:30 | < 会议室 : 9（A103） >

主持人：MASAFUMI KOBAYASHI, Sumitomo Electric Industries, ltd., Japan

论文：

ID96	A Novel Traffic Signals Control Algorithm on Urban Roads Intersection	HUANJIONG ZHANG, ZRIT, China
ID110	Implementing Additional Measures for Smoother Traffic Using Probe Data and Simulation	KENTA TABUCHI, Okayama Prefectural Police Headquarters, Japan
ID141	Understanding Traffic Conditions In Road Networks Using Object Detection Data From Drive Recorders	HIDENORI GOTO , Oriental Consultants Co., Ltd., Japan
ID214	Multi-Sensor Fusion Perception Based On Lidar And Camera	LE FU , Beijing Wanji Technology Co., China
ID362	Research On The Reusability Of Data Throughout The Construction Period Of Digitized Highway Infrastructure	SHUYUN NIU , Research Institute of Highway Ministry of Transport, China
ID240	A Method To Correct The Camera External Parameters For Pavement Detection	KAIXING ZHANG , Research Institute of Highway Ministry of Transport, China

TS27 ITS TECHNOLOGY FOR TRAFFIC SAFETY (2)

2023 年 10 月 19 日，星期四 | 09:00-10:30 | < 会议室 : 10（A102） >

主持人：HENDRA TJIOE, Head of Sales, Yunex Traffic, Singapore

论文：

ID367	Reseach on Ventilator Wind Rate Regulationg System of Highway Tunnel Based on Linear Active Disturbance Rejction Control	LIUYUAN XIANG, Beijing GOTEC ITS Technology Co., Ltd, China
ID434	Research on A New Mode of Expressway Service Status Perception Based on Energy Self-Consistent Conditions	QIAN REN, Beijing GoTec ITS Technology Co., Ltd., China
ID220	Tunnel Monitoring System based on Lidar and Video Fusion	HAO ZHOU , VanJee Technology Co, Ltd., China
ID366	The Assessment of Smart Expressway Information Release Credibility Based on Analytical Hierarchy Process (AHP) and Fuzzy Synthetic Evaluation	CHENYANG LYU, Beijing GOTEC ITS Technology Co.,Ltd, China

TS28 SENSORS AND PERCEPTION METHODS FOR AUTOMATED VEHICLES (2)

2023 年 10 月 19 日，星期四 | 11:00-12:30 | < 会议室：8（A104） >

主持人：NOBUYUKI OZAKI, Nagoya University, Japan

论文：

ID383	Research on Video Visibility Detection Technology and Application in Henan Zhuxin Expressway	LI ZHANG, Beijing GOTEC ITS Technology Co., Ltd., China
ID280	Estimation of Driver Arousal Level Using Camera and Millimeter-wave RAa and Millimeter-wave Radar	KATSUKI KUBO, Shibaura Institute of Technology, Japan
ID300	Simultaneous of Clustering and Tracking by Time-Series Optimization Filter for Point Cloud of Lidar	SHUNCONG SHEN, Shibaura Institute of Technology, Japan
ID376	Object Recognition by Infrastructure-based Pont Cloud using Machine Learning	TOSHIO ITO, Hyper Digital Twins Co., Ltd., Japan

TS30 ITS TECHNOLOGY FOR TRAFFIC SAFETY (3)

2023 年 10 月 19 日，星期四 | 11:00-12:30 | < 会议室 : 10（A102） >

主持人：FRED KALT, Managing Director, Yunex Traffic, Singapore

论文：

ID272	Systematic Evaluation of Lane Change Risk for Multi-vehicle types on Freeways using High-resolution Data	XINYI ZHANG , South China University of Technology, China
ID417	The Discussion of Construction Solutions for Smart Tunnel in the New Era	LIYANG LU, Research Institute of Highway Ministry of Transport, China
ID360	Research and Application of Key Technologies for Active Safety Management Based on Intelligent Road Studs	YAOCHUAN GAO, Tech Traffic Engineering Group Co.,Ltd, China
ID125	Impact of Maneuvering Angle in Vehicle Lane Changes on Highway Traffic Safety and Operation	WEI LEI , Hebei Provincial Communications Planning, Design and Research Institute Co., Ltd., China

TS31 NEW ADVANCES IN V2V, V2I AND V2X TECHNOLOGY

2023 年 10 月 19 日，星期四 | 14:00-15:30 | < 会议室 : 8（A104） >

主持人：SUKU PHULL, THA Department for Transport, United Kingdom

论文：

ID139	Field Operational Test for Verifying Effectiveness of Merging Support Information Provision System	TOSHIMASA NAKAGAWA, National Institute for Land and Infrastructure Management, Japan
ID122	A Holistic View on Predictive-QoS in Vehicular Networks	TIM LEINMUELLER, Denso Automotive D. GMHH, Germany
ID313	The Global Expansion and Development Of ITS & V2X	DENGJIANG WANG , Vanjee Technology, China
ID325	Exclusive and Controlled 5G Network for Development of Connected and Automated Vehicle Technologies	MAURO CARLOS DA SILVA , Idiada Automotive Technology, Spain

TS33 SMART PARKING&BICYCLE SHARING

2023 年 10 月 19 日，星期四 | 14:00-15:30 | < 会议室 : 10（A102） >

主持人：CHOY HIN LEE, ITS Malaysia, Malaysia

论文：

ID195	Location Selection Of Bicycle Sharing Delivery Points Based On Rebalancing Supply And Demand	HANQIANG QIAN , Beijing University of Technology, China
ID102	Standardized Specifications for Double-Connected Truck Parking Reservation System with DSRC on Expressways	NAOTO UENO, NEXCO Research Institure, Japan
ID303	Dynamic Allocation Model for Shared Parking Spaces in a Region	ZHENG SHUO, Dalian Jiaotong University, China
ID432	Smart Parking in Public Service Utilities – a holistic design approach of Automated Parking System (APS) in hospital	PETER KWONG FUNG, Yeefung Technology Limited, China

TS34 RAILWAY AND WATERWAY TRANSPORT APPLICATIONS AND 5G SOLUTION

2023 年 10 月 19 日，星期四 | 16:00-17:30 | < 会议室 : 8（A104） >

主持人：LEI CAI, Research Institute of Highway Ministry of Transport, China

论文：

ID268	Communication Based Train Protection System to Enhance The Operational Safety for Taiwan Railways	HUI-SHENG FENG, Taiwan Railways Administration, Taiwan, China
ID307	Application of Intelligent Railway Transport on 5G and C-V2X Network	CHUNKUAN LU, Compal Electronics Incorporation, Taiwan, China
ID424	Reducing Queuing and Crowding in Urban Rail Transit Systems: A Novel Departure Time Booking Strategy	ZHIYONG LIU, Beijing Jiaotong University, China
ID160	Exploration on The Preparation of Whole Life Cycle Design Standards in Rail Transit Industry	JIABIN ZHU, Suzhou Rail Transit Construction Co., Ltd, China
ID395	Analysis and design of key technologies for intelligent navigation of ships	DAN ZHOU，Water Transport Research Institute of the Ministry of Transport, China

TS35 NEXT GENERATION TRAFFIC MANAGEMENT

2023 年 10 月 19 日，星期四 | 16:00-17:30 | < 会议室 : 9（A103） >

主持人：GONZALO ALCARAZ, International Road Federation (IRF), Switzerland

论文：

ID109	Opitimising Signal Control at Continuous-Flow Intersections Considering Traffic Progression	YINING HU, University of New South Wales (UNSW), Australia
ID226	Coordinated Optimization Setting of Speed Limit Section of Long Tunnel Group in Mountainous Expressway Based on Driving Behavior Characteristics	SUN LING, National ITS Research Center, China
ID236	A Scalable Data-Driven Predictive Traffic Management Solution	LUCA PAONE, PTV GROUP, Italy
ID412	Data Dictionary for Highway Electromechanical Equipment in China: Integrating WSR Method and Conceptual Information Model	XI-YAO LI, Research Institute of Highway Ministry of Transport, China
ID284	Application Case of Intelligent Traffic Signal-Control on Fragile Roads in Kaohsiung City	CHIH-HUA CHANG , CECI Engineering Consultants, Inc., Taiwan, China
ID149	A Patented Invention, Synergistic Traffic Intersection & Dual-Modes Proximate Crossover Zone	VALIANT LEUNG YUK YUEN, SYNERGISTIC TRAFFIC , Australia

TS36 FUTURE METROPOLITAN TRANSPORT & DISRUPTIVE INNOVATIONS IN DIGITAL TRANSPORT

2023 年 10 月 19 日，星期四 | 16:00-17:30 | < 会议室 : 10（A102） >

主持人：JOHN PADDINGTON, ERTICO-ITS Europe, Belgium

论文：

ID237	Experiences Building An Environment Friendly ITS in The City of Huainan	ELMAR BROCKFELD, German Aerospace Center, Germany
ID186	PRT and The Future City with Sustainable Mobility	JIAXIANG WANG, Futurepolis (Suzhou Industrial Park) Planning and Architecture L.L.C., China
ID289	Magnetic Force Characteristics of Combined Layout YBaCuO Arrays for HTS Maglev Systems	YEYING BAO, Suzhou Railway and Aviation Development Center, China
ID126	Installation of Light Emitting Pedestrian Crossing Studs Related to Traffic Signal Operation at Main Intersections in Tokyo	YUYA KOBAYASHI, Metropolitan Police Department, Japan
ID162	Research on The New Generation Intelligent Rail Transit Operation and Control Management System	JIABIN ZHU, Suzhou Rail Transit Construction Co., Ltd, China

TS37 PLATOONING

2023 年 10 月 20 日，星期五 | 11:00-12:30 | < 会议室 : 7（A105） >

主持人：TIM LEINMÜLLER, Denso Automotive Deutschland GmbH, Germany

论文：

ID148	A Hybrid Control Methodology for Vehicle Platooning Based on Linearized Decoupled Control Law	HUATAO JIANG, sirun, China
ID449	Application of Arithmetic Optimizer Algorithm to Manage Platooning of Future Transportation Systems	LIPING PENG , Research Institute of Highway, Ministry of Transport, China
ID116	Platooning Regulatory Framework	ORIOL FLIX , Applus IDIADA, Spain
ID222	Design of Control Algorithms for Vehicle Infrastructure Cooperative Truck Platoon and Simulation Verification	SUN LING, National ITS Research Center, China

TS38 MULTIMODAL JOURNEY PLANNER & SMART AND GREEN VEHICLE ROUTING

2023 年 10 月 20 日，星期五 | 11:00-12:30 | < 会议室 : 8（A104）>

主持人：GONGBIN QIAN, ITS Establishment, Nanjing, China

论文：

ID101	Extension of Line-line Spatial Relationship Considering Line Direction –A case Study of Bus Transfer	DONGDONG ZHENG, Zhengzhou Tiamaes Technology Co.,ltd, China
ID161	Algorithm for Visualization of Traffic Congestion State Using Integrated Probe Data Developed for The VICS Experimental Service	SHINYA ADACHI, Vehicle Information and Communication System Center, Japan
ID180	Prediction of Travel Delay during Traffic Incidents	CHONG CHEE CHUNG, ST Engineering Urban Solutions, Singapore
ID257	Fast Matrix Queries and Application to Routing Optimization Problems	JEAN-SEBASTIEN GONSETTE, AISIN Europe, Belgium
ID310	Study on the Layout and Parking Area Optimization of Road Transport Channels for Dangerous Goods in Suzhou	ZHANG GUOQIANG, Suzhou Transportation Bureau, China

TS39 ITS INFRASTRUCTURE FOR AUTOMATED VEHICLES

2023 年 10 月 20 日，星期五 | 11:00-12:30 | < 会议室 : 9（A103） >

主持人：JINPING GUAN,Harbin Institute of Technology (Shenzhen) and Massachusetts Institute of Technology, China

论文：

ID260	SSP: Small Object Detection from Sparse Point Clouds of Roadside LiDAR for Vehicle-to-infrastructure Cooperating System	JUANJUAN LI, Vanjee Technology, China
ID308	Smart Road and Edge Infrastructure Enabling Cooperative Intelligent Transport Systems	LING LIU, Intel, China
ID469	Preparing CAV Infrastructure in Building the Cooperative and Automated Transportation Ecosystem	JIONGJIONG SONG , AECOM, United States
ID476	Increasing The ODD Attribute Value Awareness of Automated Driving Systems with Infrastructure Support	HIRONAO KAWASHIMA, Mobility Culture Research Center, Keio University Keio University, Japan
ID448	International Standard for Automated Mobility	JUNICHI HIROSE, Highway Industry Development Organization, Japan

TS40 DATA ANALYTICS FOR TRAFFIC MONITORING AND MANAGEMENT

2023 年 10 月 20 日，星期五 | 11:00-12:30 | < 会议室 : 10（A102） >

主持人：HANLOU DIAO, China Design Group Co.,Ltd., China

论文：

ID159	Large-Scale Microscopic Traffic Simulation Based on License Plate Recognition Data and OpenStreetMap	WENBIN YAO, Zhejiang University, China
ID171	A Traffic Incident Detection Method Based on YOLOv5 + DeepSORT for Freeway	XIANHUI ZONG, Nanjing University of Science and Technology, China
ID271	Improvement in Corridor Level Traffic Volume Predictions by Integrating the Signal and Phase Timing Data	RAJESH KUMAR MALHAN , DENSO International America Inc., United States
ID314	Multi-Objective Tracking Algorithm for Urban Traffic Via Adaptive Multi-Level Approach	ZHAOCI LUO , VanJee Technology Co.,Ltd, China
ID227	K-means++ Clustering Method Based on License Plate Recognition Data to Analysis Residents Travel Features: a Case Study of Suzhou	KEXIN WANG, Soochow University, China
ID309	VIDEO DATA ANALYTICS IN TRAFFIC MONITORING AND MANAGEMENT: A CASE STUDY IN HONG KONG	LUI, STEVEN YEE MING, AECOM Asia Co. Ltd., China

TS42 TECHNOLOGIES FOR TRAVEL DEMAND MANAGEMENT

2023 年 10 月 20 日，星期五 | 14:00-15:30 | < 会议室 : 6（A106） >

主持人：HAYASHI ITO , ITS Japan, Japan

论文：

ID154	Stpa For Safety Analysis Of Autonomous Vehicles In Mixed Traffic Systems	LEI CHEN, RISE Research Institutes of Sweden, Sweden
ID203	Congestion Judgment Method at Entrances and Exits of Large-scale Parking Lots Based on Average Vehicle Delay	QIANYI HU, Southeast University, China
ID221	Analysis on Railway Station Choice Behavior Affected by Urban Transport Accessibility in A City with Multiple Stations	KANGYU LIANG, School of Traffic and Transportation, Beijing Jiaotong University, China
ID433	Identification of Urban Residents' Travel Activity Pattern A Case Study of Hangzhou City	YINAN DONG, Zhejiang University, China

TS45 POLICY AND REGULATION FOR CONNECTED AND AUTONOMOUS VEHICLES

2023 年 10 月 20 日，星期五 | 14:00-15:30 | < 会议室 : 9（A103） >

主持人：WOLFGANG TREINEN, Berlin Partner for Business and Technology, Germany

论文：

ID467	Research on the Framework of Cooperative Automated Driving System Based on Game Theory	XIAOHAN YANG, Jiaoke Transport Consultants Ltd., China
ID336	Research on the Implementation of Ethics Based on Driver Choice Behavior in Automated Driving	KAITO KUSAKARI, Shibaura Institute of Technology, Japan
ID121	Automated Driving Challenges and Approaches: Platooning Use-Case	CARLOS LUJAN, IDIADA Automotive, Spain
ID170	Development Status and Policy Suggestions of Vehicle-Road Collaborative Automatic Driving in China	GENG RUI, Highway Science Research Institute of the Ministry of Transport, China
ID115	Type Approval Approach for Automated Driving Vehicles: Beyond the Traditional Homologation Methodology	CARLOS LUJAN, Applus IDIADA, Spain

IS01 SUSTAINABLE AND TRANSFORMATIONAL DEVELOPMENT OF TRANSPORT & POLICY, STANDARDS AND HARMONIZATION

2023 年 10 月 17 日，星期二 | 14:00-17:00 | < 会议室 : 11（A202） >

论文:

ID119	Typical Case of Operation and Maintenance for High-Speed Railway Core System	XINJUN GAO, Signal and Communication Research Institute, China
ID439	A Prediction Method for the Complexity Degree of Traffic Scenarios	YAN FENG, Research and Development Center of Transport Industry of Autonomous Driving Technology, RIOH High Science and Technology Group, Ministry of Transport, PRC, China
ID385	Optimization of Delivery Routes for Takeout Under Time-Varying Road Networks	JIACI WANG, Sanya Science and Education Innovation Park, Wuhan University of Technology, Sanya 572024, PR China, China
ID327	Short-term traffic flow prediction and timing optimization at signalized intersections based on SG-LSTM and particle	LEI YANG, Dalian Jiaotong University, China
ID269	Collaborative optimization model for bus speed guidance and signal control on the networked environment	TIAN XIN, South China University of Technology, China
ID302	Research on new framework based on existing smart expressway construction guides	ZHUOCHENG YANG, Beijing GOTEC ITS Technology Co.,Ltd, China
ID330	Research on the improvement of measurement service guarantee capability of intelligent transportation	XIN SHI, China Academy of Transportation Sciences, MOT, China
ID205	Evaluation of measurement uncertainty of brake fluid moisture measuring instrument	YIXU WANG, Research institute of highway ministry of transport, China
ID286	Measurement and comparison of asphalt viscosity measured by dynamic shear rheometer	MIAO NA, Institute of Highway Science, China

IS02 CONNECTED, COOPERATIVE AND AUTOMATED MOBILITY & SMART CITY

2023 年 10 月 18 日，星期三 | 14:00-17:00 | < 会议室 : 11（A202） >

论文:

ID207	A Review of Data-Driven Lane-Changing Decision Modeling for Connected and Automated Vehicles	ZHENGWEN FAN, Nanjing University of Science and Technology, China
ID456	Research on signal reliability of communication equipment on medium and large operating vehicles	ZHANG YUN, Research Institute of Highway Ministry of Transport, China
ID245	Research on path tracking control strategy for In-Wheel Motor Driven electric vehicle with Integrated Stability	HAICHUAN ZHANG, Chang'an University, China
ID250	Multi-generational Evolutionary Approach of Autonomous Transportation System	HAONAN TUO, Central South University, China
ID409	Study on the evolution mechanism of lane change decision in urban expressway diversion area	SUCHUAN XU, Suzhou University of Science and Technology, China
ID477	Application and Comparison of Nine Point Logic Control and PID Control Algorithms in Smart Grid Decision Making	ZHIXIN OU, Anhui Communications Vocational & Technical College Department, China
ID299	A Lateral Control Method for a 4-Wheel Steering Sightseeing Vehicle	YINING XING, Tsinghua University, China
ID158	Research on Visualized Application of Inland Waterway Management Based on Multi-source 3D Fusion	WU LV QING, Suzhou Port and Shipping Development Center, China
ID441	A Soft-attention based Spatial-temporal Neural Network Model for Traffic Flow Prediction	RUI ZHENG, Beijing Jiatong University, China
ID326	Analyzing Crash Severity at Intersections: A Random Parameters with Heterogeneity-in-means approach	YIYUE LUO, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China

IS03 INTELLIGENT AND DIGITAL TRANSPORT INFRASTRUCTURE & INTEGRATED TRANSPORT SYSTEMS

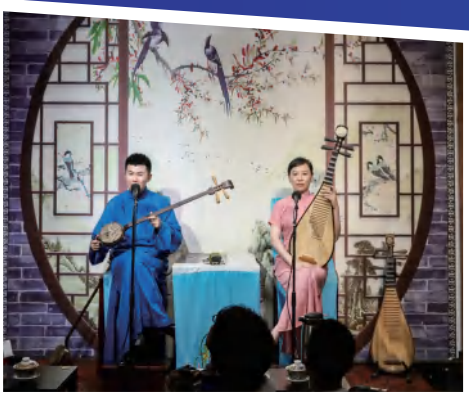
2023 年 10 月 19 日，星期四 | 14:00-17:00 | < 会议室 : 11（A202） >

论文：

ID276	Global Synergistic Dual-Modes Sustainable Traffic System	VALIANT YUK YUEN LEUNG , Synergistic Traffic, Australia
ID478	Research on the Least Square Algorithm for Correcting High Voltage Arc Edge Discharge Parameters	ZHIXIN OU, Anhui Communications Vocational & Technical College Department, China
ID197	Research and implementation of Intelligent construction and management system for the ecological revetment of inland waterways based on 3D printing	YUQI YANG, Suzhou Port and Shipping Development Center , China
ID361	The Construction Situation and Development Suggestions in China of Smart Highway	XIAOLIN CHE, Research Institute of Highway Ministry of Transport, China
ID345	Highway Life-cycle Cost Analysis under the Autonomous Vehicles Scenario	KAIDI LIANG, Southeast University, Australia
ID223	Mode measurement of cable based on a new subpixel edge detection operator	KUN XIE, Hohai University, China
ID402	Traffic congestion traceability analysis based on capacity matching degree	DE GAO, Beijing Jiaotong University, China
ID479	Evaluation on Variable Lanes of Xiehe Road in Shanghai	XI CHEN, Shanghai Urban Construction Design & Research Institute (Group)Co., Ltd., China
ID423	Vessel Flow Forecasting in Yangtze River Multi-Bridge Area Using Inferential Generative Model	JIE MAN, Wuhan University of Technology, China
ID339	Research on multimodal transport service platform based on blockchain	GUANYA HAO, Nanjing University of Science and Technology, China

欢迎您来苏州参加

第29届智能交通世界大会



大会精心设计了一系列技术考察路线，旨在为参观代表们提供一个深入了解中国智能交通产业发展的全新视角和最佳体验，带领大家直观地感受中国智能交通发展的前沿性和先进性，以及智能交通赋能城市服务带来的便利性和实用性。大会共确定技术考察路线 9 条，分为城市智能交通综合管理类、5G 车联网项目展示类、会后专题考察路线三类。考察内容涵盖自动驾驶、智慧交通指挥、自动化码头、智慧高速公路、智慧轨交捷运等，一站式体验苏州乃至长三角最具特色的智能交通应用场景。

指南

所有技术路线出发和返回地址：苏州国际博览中心 C 馆广场

预定：请在注册流程中进行购买，或点击右侧按钮进入个人中心页面追加购买。

如果单场技术考察路线参加人数过低，组委会可能会取消该场参观，或做出其他适当的安排。如有任何调整，组委会将通过邮件第一时间告知，敬请谅解。

请至少提前 5 分钟到达技术考察路线集合地点，班车将按照行程时间准时发车。

智慧交通管控

交通运输应急指挥中心（TOCC）及公交调度中心

苏州市交通运输应急指挥中心是苏州交通的“智慧大脑”，汇聚了公路、航道、港口以及公共交通领域等 5 万多路监控视频及海量数据，实现全市交通运输领域事前感知预警、事发值守接报、事中处置会商、事后评估优化的全过程、一体化协同与监测，形成交通运输领域的应急处置闭环，实现综合交通运输应急管理的质态提升。

苏州公交集团集中调度指挥中心是苏州公交的数据大脑，目前建立了“苏州公交运营管理”和“公交实时数据监管”两大平台，形成了“一中心，两平台”的布局结构。汇集运营调度、车辆监管、应急调度、实时客流、场站管理、经营分析及信息发布七大功能。在开展精细化运营调度工作的同时，为乘客持续提供精准有效的公交出行服务信息。

区域	苏州市		展示内容	智能交通管控
参观时长（含车程）	90分钟		参观人数（单场）	30
参观地点	市交通运输应急指挥中心（TOCC）、公交调度中心			
日期和时间	2023-10-16	13:00-14:30（英文专场） 15:00-16:30（中文专场）	2023-10-19	13:00-14:30（英文专场） 15:00-16:30（中文专场）

智慧交通管控

苏州市公安局交通管理局

实地观摩交警支队车管所、智能网联与城市交通服务联合创新实验室，展示数据赋能公安交通管理、城市精细交通组织、智能化交通信控控制、创新型交通管理服务新模式等。

苏州市公安局车管所近年来精心打磨科技文化、服务文化、警营文化，整合机动车查验登记“流水线”，打造“机动车上牌一站通”模式，建设车驾管业务智慧大厅、自助服务厅，提升服务水平和办事效率，实现创新型交通管理服务新模式。

“智能网联与城市交通服务联合创新实验室”是苏州市公安局交通管理局联合高校、科研机构和科技企业共同建设的创新平台。依托联合实验室，各共建单位资源共享、优势互补，共同开展数据赋能交通管理、智能化交通信号控制等研究，实现网联与交管的双向赋能。

区域	苏州市	展示内容	智能交通管控
参观时长（含车程）	120分钟	参观人数（单场）	30
参观地点	苏州市公安局车辆管理所、苏州市公安局交通管理局智能网联与城市交通服务联合创新实验室		
日期和时间	2023-10-16　13:00-15:00（英文专场）　2023-10-19　13:00-15:00（中文专场）		

智慧高速

中国智能高速公路参观路线

参观 G2、G42 苏州段、沪宁高速苏州段指挥中心、阳澄湖服务区，具体展示高速大脑、协同云调度、智慧扩容、智慧服务区等高速公路智能化运营管理场景。

G2、G42 苏州段是国内管理最先进、服务最优质的高速路段之一。借助综合营运平台、智慧扩容、云收费等项目应用，发挥“智慧高速”强大动能，持续提升公众出行体验感。

沪宁高速苏州段指挥中心集成应用“云调度”、“AI 平方”等 9 大智慧化功能，实现监测指挥、分析研判、智能决策等功能。

阳澄湖服务区以“梦里水乡、诗画江南”为主题，充分融入苏州园林“一街三园”设计理念，让顾客“不入苏州城，尽揽姑苏景”，被评为全国高速公路旅游主题服务区、最美园林文化服务区。

区域	沪宁高速		展示内容	智慧高速
参观时长（含车程）	120分钟		参观人数（单场）	30
参观地点	G2、G42苏州段、沪宁高速苏州段指挥中心、阳澄湖服务区			
日期和时间	2023-10-18	13:00-15:00（英文专场） 15:00-17:00（中文专场）	2023-10-19	13:00-15:00（英文专场） 15:00-17:00（中文专场）

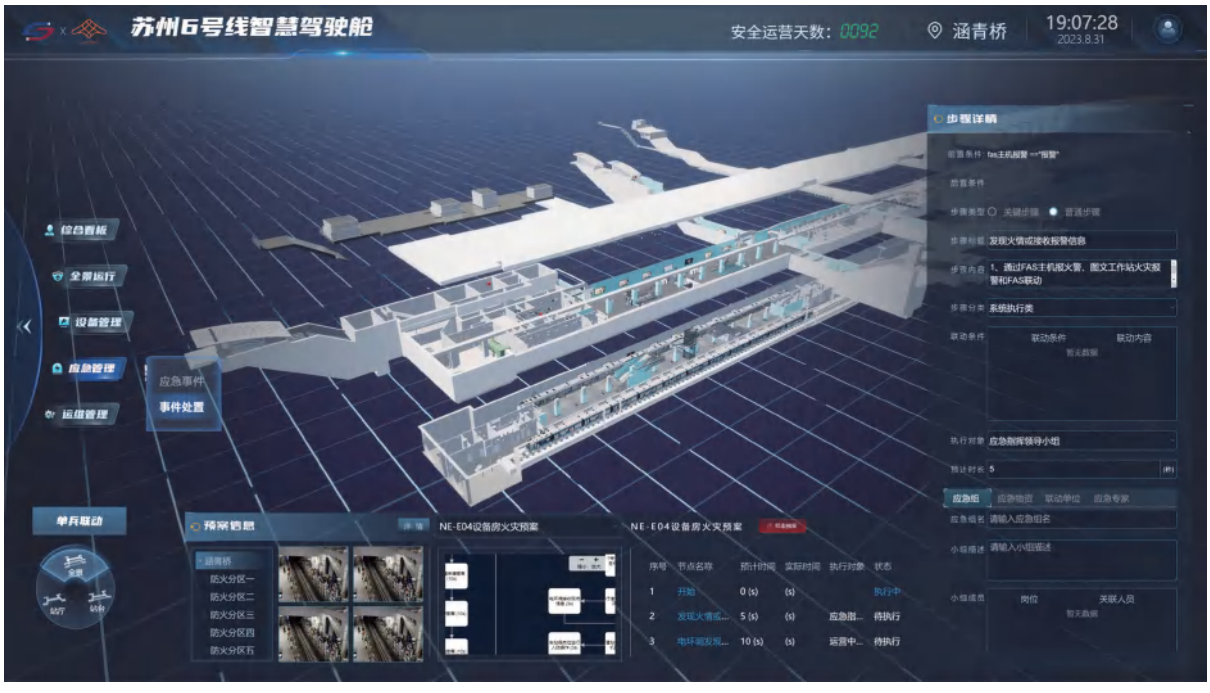
智慧轨交

苏州轨道交通港田路站

现场展示智慧大脑驾驶舱、全景运行管理、车站应急联动管理、设备房标准化安装管理、智慧安检、节能管理等场景。

苏州轨道交通 6 号线港田路站是“城市轨道交通数字化智慧大脑”先导示范站，将充分展示智慧大脑面向乘客、面向站务和面向设备的苏州特色功能。其支持的自动开关站功能、自动请销点功能可实现车站夜间无人化管理，属业内首创；融合监控、自动巡检及应急联动管理可大幅度降低人工需求。

区域	轨道交通		展示内容	智慧轨交
参观时长(含车程)	150分钟		参观人数(单场)	30
参观地点	苏州轨道交通6号线港田路站			
日期和时间	2023-10-16	13:00-15:30（英文专场） 15:00-17:00（中文专场）	2023-10-17	13:00-15:30（英文专场） 15:00-17:00（中文专场）



智能网联车辆/智慧文旅

太湖生态岛自动驾驶项目

参观太湖生态岛，主要展示自动驾驶技术在景区、枢纽和城市道路上的示范应用水平。

太湖生态岛全岛 84 平方公里以应用场景为核心，共部署 93 个点位，双向 200 公里自动驾驶道路，并规模投放 Minibus、Robotaxi、无人零售车、物流车、安防车、清扫车、漫游车等全系列车型，将生态岛打造成为全国首个文旅自动驾驶生态示范区和“智慧文旅 + 智能网联产业”相结合的“双智样板”。

区域	吴中区		**展示内容**	智能网联车辆/智慧文旅
参观时长（含车程）	150分钟		**参观人数（单场）**	20
参观地点	太湖生态岛			
日期和时间	2023-10-17	13:00-15:30（英文专场） 15:00-17:30（中文专场）	2023-10-19	13:00-15:30（英文专场） 15:00-17:30（中文专场）

智能网联车辆/智能交通管控

苏州高铁新城智能交通城市服务体验路线

苏州高铁新城智能交通城市服务体验路线，展现规模处于全国前列的苏州自动驾驶车辆出行服务，途径南天成路等重点路段体验“轻车熟路”(全球唯一纯路端感知 L4 网联式自动驾驶系统)，沿途可以体验高铁新城内的车路协同及单车智能等场景应用，包括无人出租车、无人小巴、无人清扫、无人环卫、无人安防巡检、无人保洁船等各类场景。途经长三角智能网联汽车产业示范区智控中心，将展示城市级云控平台支撑城市级智能网联业务运营。

区域	相城区	**展示内容**	智能网联车辆/智能交通管控
参观时长(含车程)	150分钟	**参观人数(单场)**	20
参观地点	长三角智能网联汽车产业示范区智控中心、苏州北站、南天成路、长三角国际研发社区启动区、苏州国际会议酒店等重点地区		
日期和时间	2023-10-17 13:00-15:30（英文专场） 15:00-17:30（中文专场）	2023-10-18	13:00-15:30（英文专场） 15:00-17:30（中文专场）

智慧港口/智慧工地

张家港自动化散杂货码头及智慧工地

参观张靖皋长江大桥 A1 标张靖皋长江大桥智慧管理指挥中心、钢筋云工厂智控中心和混凝土云工厂智控中心，具体展示数字孪生、虚拟建造、大数据、物联网、云计算等技术在桥梁工程智能建造中的应用。

参观张家港港务集团无人自动化散杂货码头，展示 5G、大数据、人工智能等技术在自动化散杂货码头的应用，构建了干散货码头生产作业全流程智能控制技术体系，实现了干散货码头卸船、水平运输、堆场作业、清舱、装船等所有作业环节的自动化、无人化。该项目已获国务院国资委首届国企数字场景创新专业赛二等奖、29 届智能交通世界大会创新大赛一等奖等多项荣誉。

区域	张家港市	**展示内容**	智慧港口/智慧工地
参观时长（含车程）	450分钟	**参观人数（单场）**	30
参观地点	张家港港务集团无人自动化散杂货码头、张靖皋长江大桥智慧工地		
日期和时间	2023-10-21　9:30-17:00（中英文专场）		

智能网联车辆/智慧泊车

常熟市5G车联网示范项目

参观苏州 5G 车联网应用示范项目常熟段核心区，京东无人物流全球研发中心和苏州江南爱停车科技有限公司。

苏州 5G 车联网城市级验证与应用项目常熟标段建设集感知、通信、计算等能力为一体的智慧道路环境，构建信息服务、交通安全、交通效率类 50 余个车路协同应用场景，重点打造包括智慧公交（尾屏红绿灯显示 + 车头行人检测 + 对周边车辆“鬼探头”预警 +See through）、信号灯灯态推送、全息路口等特色 V2X 示范应用场景。

2020 年，京东物流与常熟市深入合作，启动城市级智能配送项目落地运营，打造全球首个智能配送城，在城市末端配送领域形成全场景、全链条解决方案，形成可复制、可优化、可推广的无人配送商业化运营模式。

苏州江南爱停车科技有限公司定位为城市停车运营服务商，提供城市级平台的建设运营、各场景精细化解决方案、停车白皮书研究及发布、停车大数据分析等一系列咨询及服务。

区域	常熟市	展示内容	智能网联车辆/智慧泊车
参观时长(含车程)	420分钟	参观人数(单场)	20
参观地点	中国智能车综合技术研发与测试中心		
日期和时间	2023-10-21　9:30-16:30（中英文专场）		

智能交通管控/智慧港口

太仓市智能交通管控及自动化集装箱码头

参观太仓市数字城市运营管理中心及江苏省港口集团集装箱公司太仓四期集装箱自动化码头。

中心在赋能交通安全管理方面，依托数智手段，整合起公安交管部门现有信息系统的数据资源，覆盖交通日常监测监管、应急指挥调度等多个业务领域，实现数据融合、数据显示、数据分析、数据监测等多项功能，并广泛应用于交通态势，安全态势，指挥调度，智慧停车，资产管理，警务督导，全息路口等日常管理。

太仓港四期码头是江苏省内和长江流域的第一个堆场全自动化码头工程。现场能看到壮阔的长江入海口，基于 5G 通讯的远控岸桥和无人驾驶水平运输设备，堆场装卸使用的 28 台自动化轨道式集装箱龙门起重机，以及创新的码头 TOS 系统运行情况。

区域	太仓市	展示内容	智能交通管控/智慧港口
参观时长(含车程)	450分钟	参观人数(单场)	20
参观地点	太仓市数字城市运营管理中心、江苏省港口集团集装箱公司太仓四期集装箱自动化码头		
日期和时间	2023-10-21　9:30-17:00（中英文专场）		

本届智能交通世界大会面向国内外技术厂商及科研院所公开征集了9个智能交通前沿领域的演示项目，大会期间在主会场西南方近15,000平方米的户外专属区域予以现场演示。作为大会备受瞩目的特色活动，演示项目为公众展示最具技术含量与前沿水准的产品、设备、解决方案或服务。

本届大会共有9个演示项目，内容涵盖未来智能交通的"新技术、新产品、新场景"：

新技术：

呈现来自激光雷达、行车检测、云控平台等方面的前沿技术，为行车安全、自动驾驶、城市智慧出行等方面提供智能技术支持。

新产品：

展示无人飞行汽车、自动驾驶游船、自动驾驶汽车、智能交通机器人等创新产品如何助力提升城市交通运输能力与交通管理水平。

新场景：

在水上旅游、物流配送、接驳安防、道路巡检等方面展现更多无人化交通场景。

飞行汽车旅航者X2动态演示

小鹏汇天

旅航者 X2 是由小鹏汇天自主研发制造的第五代飞行汽车。X2 全机身采用碳纤维结构，极具未来感的外观下有着各类高科技属性的加持：自动驾驶、雷达测距、感知避障、整机降落伞等多项设备从驾驶到安全可提供全方位的保障。

X2 首次采用封闭式座舱，可搭载两位乘客。在飞行中无二氧化碳排放，符合城市绿色交通出行的目标，适用于未来城市的低空飞行，可满足城市内短途出行需求，同时还可为野外救援、医疗运输等场景服务。目前 X2 搭配手动驾驶和自动驾驶两种驾驶模式，在 X2 的自动飞行过程中，乘客只须通过一键启动、一键返航、一键降落等简单操作即可拥有安全、智能的飞行体验。

无人驾驶车辆动态演示

苏州工业园区

展示多元化无人驾驶车辆，体现智能网联与人们日常生活的深度融合，通过智能化和网联化改变人们出行方式与生活模式，带来更多安全、便利和高效。

面向智慧城市的智能出行系统与示范

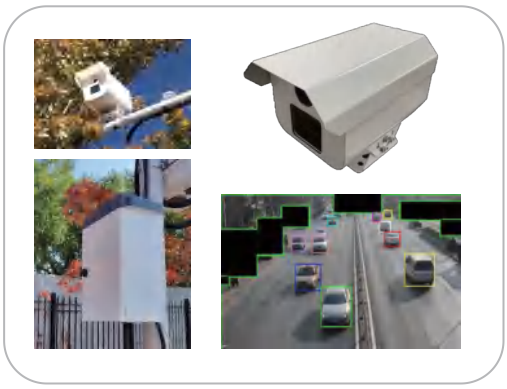
清华大学

本项目以提高城市居民乘坐舒适性、出行便捷性为目标，面向智慧城市出行需求，基于“车路云一体化”架构，研制了乘用车、摆渡车、物流车、清扫车、观光车、巡检车等多类车型，开发了路侧感知设备、智慧出行 APP，搭建了云端数字孪生系统，打通了智能车辆、智慧路侧、云控平台、智能移动终端间的数据通信，实现了“智能车域、智慧路域、数据云域、通信网域”四域合一的一体化智慧交通。

智慧出行APP

云平台与数字孪生系统

多类别自动驾驶车辆



智能路侧系统

车规级短距激光雷达 ML-30s+

北京一径科技有限公司

ML-30s+ 是一径科技研发的一款车规级激光雷达产品。公司以先进的技术出发，紧密结合市场需求，提供高性能、小型集成化、可量产的车规级激光雷达产品，为自动驾驶应用提供可靠稳定的 3D 视觉能力。

ML-30s+ 具有更大的水平视场角：比 120°提前 1.4 米发现邻车道后方来车。同样实现 360°盲区覆盖，140°视场角拼接方案下的盲区为 120°方案的二分之一。

ML-30s+ 具有更大的非对称垂直视场角：水平面以下 50°（水平放置）视场角为当前业内最大，车身周边路面盲区显著缩小，能够探测路沿、砖块、低矮安全护栏、地锁、石墩、锥桶等路面常见障碍物，轻松满足多样城市道路、自动泊车等低速场景、行车启动等复杂路况的车身近地感知需求。

欧卡智舶“汐”自动驾驶游船

陕西欧卡电子智能科技有限公司

欧卡智舶“汐”是全国首艘 L4 级自动驾驶游船，以水面无人驾驶技术为依托，以提升游客水上智能体验为中心，以赋能智慧旅游、智慧水上交通产业化落地应用为目的，适用于内河、内湖观光游览以及接驳等场景。

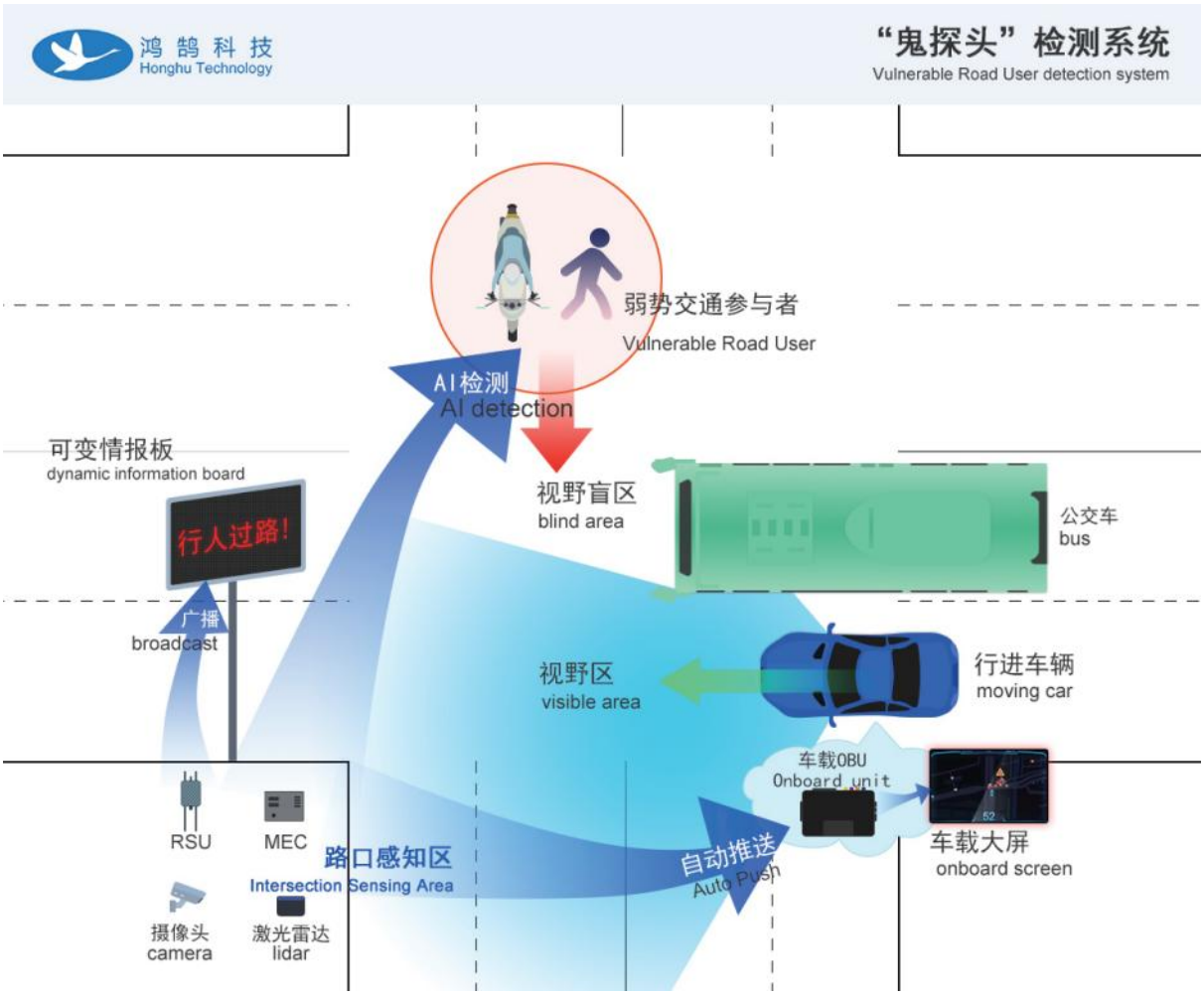
“汐”自动驾驶游船搭载智慧化交互系统，可实时显示船只与景点信息并对景点进行智能语音播报，为游客带来科技化的全新水上游览体验。针对不同客户游览需求，可用于水面观光游览、水上下午茶、水上商务、水上研学等多种场景，提高船只使用率。同时针对游船运营方配备管理端 APP，可实时查看船只状态并进行管理，大幅度降低船只管理成本。

“鬼探头”检测系统

江苏鸿鹄电子科技有限公司

“鬼探头”检测系统，通过激光雷达和摄像头感知横穿道路的各种车辆、行人等信息，并将这些信息输出给边缘计算设备，由边缘计算设备融合研判障碍物信息，将研判结果输出给路侧单元，路侧单元通过 V2X 技术，反馈给附近的通行车辆，从而避免“鬼探头”事故发生。

该系统具有“低延时、识别率高、可路侧声光报警、可车端报警”的亮点。当有行人横穿马路时，车内人机交互设备会以声光图等形式给驾驶员提前播报弱势交通参与者碰撞预警；路侧的报警屏也会以图文和声音提示有行人横穿马路。

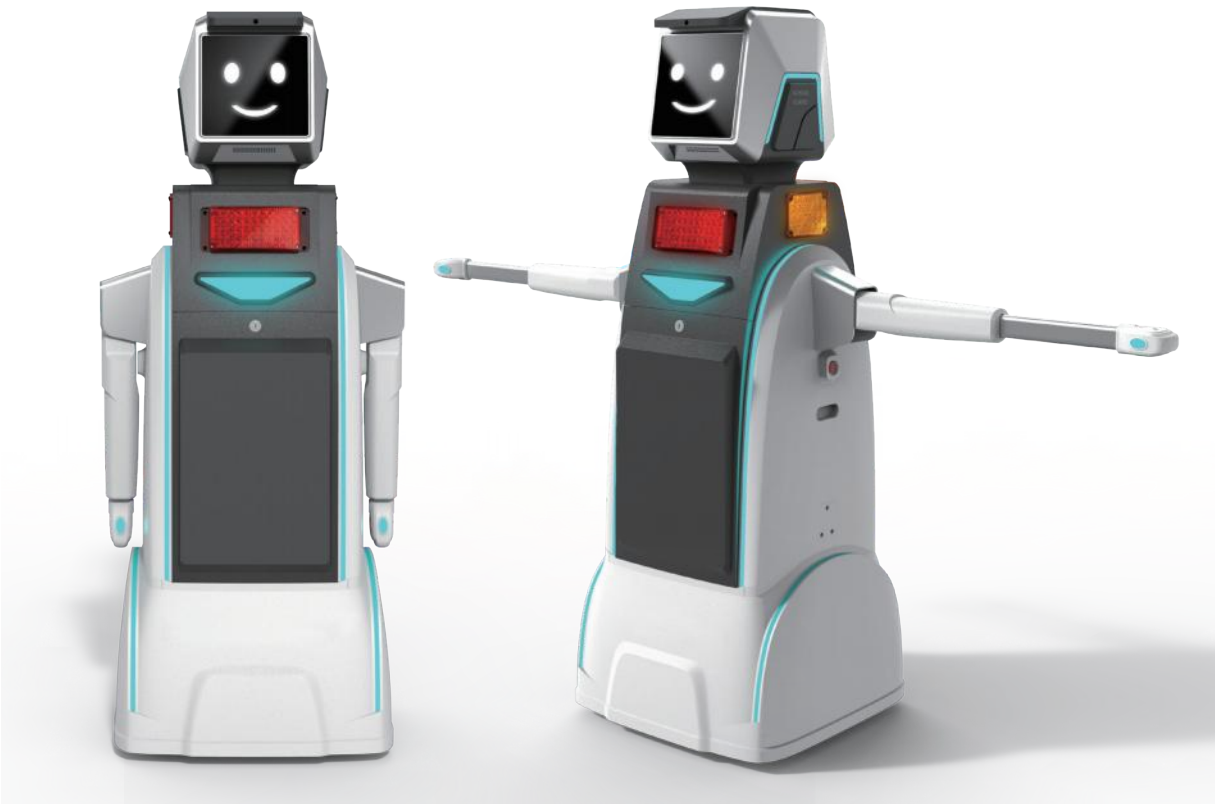


单体自移式交通隔离机器人

南京蓝泰交通设施有限责任公司

本次演示的交通隔离机器人，基于多传感融合、高精度导航、无线 mesh 自组网通信、云计算等新技术，具备人脸识别、危险事件预警、语音互动、自主行走、手臂指挥、长时录像等功能。精雕细琢的“仿人”外观造型，将科技感与未来感完美呈现。

产品主要用于车道隔离、事故隔离及施工现场应急处理，也可拓展应用于校园巡逻、校门口交通安全疏导等，对于充分落实公安部交通事故“减量控大”目标任务、警校联防联控任务均具有重要的实践意义。



「轻舟乘风」高阶辅助驾驶解决方案

苏州轻舟智航智能技术有限公司

面向汽车厂商不同等级辅助驾驶前装量产需求，轻舟智航致力于成为头部高阶辅助驾驶解决方案 Tier-1 提供商，携手产业上下游生态伙伴，共同打造「轻舟乘风」高阶辅助驾驶解决方案。「轻舟乘风」不仅为客户提供更适合中国道路场景、更具量产落地优势、具有极高性价比的解决方案，也为终端消费者带来更好用、更爱用的高阶辅助驾驶体验。

「轻舟乘风」高阶辅助驾驶解决方案推出了多种高性价比的行泊一体产品系列方案，所有方案可适配单征程 5®芯片。

轻舟乘风 Max：搭载一颗激光雷达，可实现城市 NOA 功能；

轻舟乘风 Pro：视觉为主的方案，可实现高速 NOA 功能，并可拓展城市 NOA 功能；

轻舟乘风 Air：极致性价、视觉为主的方案，可实现高速 NOA 功能。

道路桥梁无人机智能化巡查及清洗

苏州中飞遥感技术服务有限公司

此巡检装备可实现多维路面性能指标的高频、快速、低耗采集与评价，且能够借助人工智能平台直观展示道路桥梁病害的统计情况。

此清洗装备为大型六旋翼无人机，可挂载高清相机、高压清洗设备、探照灯、抛投器等，实现手动全自主两种作业模式。采用自组网数图传一体通讯链路，具备自主起飞、降落功能，并预留多种任务挂载接口，可实现功能扩展。

中飞清洗无人机 zw1 系列

欢迎招待会

时间：2023年10月16日（周一）16:00 - 17:00
地点：苏州国际博览中心-展馆内部
门票：包含在注册费中
大会为各位准备了欢迎酒会。酒会从16:00开始，在展厅举行。这是一个与业内同行见面的绝佳机会，也是与我们的商业伙伴和参展商建立联系的绝佳机会。

Gala晚宴

时间：2023年10月19日（周四）18:30 - 20:00
地点：苏州金鸡湖凯宾斯基大酒店
门票：每人350元，在注册时支付
我们在苏州金鸡湖凯宾斯基大酒店内安排了Gala晚宴，安排在了苏州园区酒店圈内最大的宴会厅——凯宾斯基2楼大宴会厅。酒店位于金鸡湖和独墅湖之间，可以享受到双湖湖景板，在夕阳映衬下享用精致地道的美食，随着晚会的展开，客人们将享受到良好的陪伴、迷人的表演和美妙的音乐，彻夜狂欢。

参展单位

展位号	参展企业
BA01	蔚来
BA02	图达通智能科技（苏州）有限公司
BA03	苏州智能交通信息科技股份有限公司
BA04	苏州工业园区
BA05	北京百度网讯科技有限公司
BA06	北京万集科技股份有限公司
BA07	特斯拉
BA08	天翼交通科技有限公司
BA09	广东省智能交通协会
BA10	上海市政工程设计研究总院(集团)有限公司
BA11-1	华设设计集团股份有限公司
BA11-2	江苏省综合交通运输学会（协会）
BA12	予途交通科技（北京）有限公司
BA13	北京卓视智通科技有限责任公司
BA14	Gangneung City, Korea
BA15	ITS Korea
BA16	交通运输部公路科学研究院
BB01	北京亮道智能汽车技术有限公司
BB02	快易通有限公司
BB04	畅行昆山智慧交通
BB05	连云港港口控股集团有限公司
BB06	河北冀翔通电子科技有限公司
BB08	中国联合网络通信有限公司
BB10	北京星云互联科技有限公司
BB11	成都圭目机器人有限公司
BC01	PTV Planung Transport Verkehr GmbH
BC04	苏州德亚交通技术有限公司
BC05	南京顶基科技有限公司
BC06	南京蓝泰交通设施有限公司
BD002	浙江云通数达科技有限公司
BD004	中国邮政集团有限公司苏州市分公司
BD005	江苏科创车联网产业研究院有限公司
BD006	苏州柏川数据科技有限公司
BD007	易程（苏州）电子科技股份有限公司
BD008	罗德与施瓦茨（中国）科技有限公司
BD009	西安云视航空科技有限公司
BD010	上海智驾汽车科技有限公司
BD012	擎翌（上海）智能科技有限公司
BD013	Coovally-AI交通检测平台
BD015	中铁第四勘察设计院集团有限公司
BD017	苏州市华昌能源科技有限公司
BD018	江苏科佳诚瑞电气股份有限公司
BD020	国际交通工程、智能交通技术与设施展览会

展位号	参展企业
BD022	苏州彼立孚数据科技有限公司
BD024	苏州市瑞思特智能制造有限公司
BD025	深圳一清创新科技有限公司
CA01	苏州轨道交通运营有限公司
CA02	TOYOTA Motor Corporation
CA03	苏州相城
CA04	载合汽车（苏州）科技有限公司
CA05	ITS JAPAN
CB01	苏交科集团股份有限公司
CB02	Honda Motor Co.,Ltd
CB03	Panasonic Automotive Systems Co.,Ltd
CB04	车巴达（苏州）网络科技有限公司
CB05	江苏博宇鑫信息科技股份有限公司
CB06	AISIN CORPORATION
CB07	DENSO CORPORATION
CB12	智加科技
CB13	中国移动
CB14	南京市城市照明建设运营集团有限公司
CB15	苏州思卡信息系统有限公司
CC01	Blickfeld GmbH SAFESTREAM Project; Landkreis Kelheim
CC02	南京智慧交通信息股份有限公司
CC03	深圳港集团有限公司
CC04	ITS Asia-Pacific
CC05	ITS Singapore
CC06	江苏爱可青交通科技有限公司
CC08	华砺智行（武汉）科技有限公司
CD001	株式会社 FORUM8
CD013	上海司曼斯信息技术有限公司
CD014	上海司南卫星导航技术股份有限公司
CD057	安勤科技股份有限公司
CD062	苏州安软信息科技有限公司
CD067	北京国遥新天地信息技术股份有限公司
CD072	路特迩科技（杭州）有限公司
CD077	杭州国朗科技有限公司
CD079	维克多汽车技术（上海）有限公司
CD080	梧桐链数字科技研究院（苏州）有限公司
CD081	上海磐起信息科技有限公司
CD087	AECOM Asia Co. Ltd.
CD088	5GAA - 5G Automotive Association e.V.
CD089	江苏飞力达国际物流股份有限公司
CD090	南京睿捷智慧交通科技研究院有限公司
CD091	中储南京智慧物流科技有限公司

展位号	参展企业
CD092	苏州清研浩远汽车科技有限公司
CD099	苏州绿控传动科技股份有限公司
CD100	江苏峰睿澜普数字技术有限公司
CD101	江苏路与行交通科技有限公司
CD102	赛文交通网
CD107	常州市公路事业发展中心
CD108	宁波路宝科技实业集团有限公司
CD111	Roads & Transport Authority
CD112	北京因泰立科技有限公司
CD117	北京理工睿行电子科技有限公司
CD118	苏州艾氪英诺机器人科技有限公司
CD119	苏州江南爱停车科技有限公司
CD121	深圳市显科科技有限公司
CD123	中国公路学会/世界交通运输大会
CD124	南通智慧交通科技有限公司
CD125	江苏智甄科技有限公司
CD126	博视智能科技有限公司
CD127	北京津发科技股份有限公司
CD128	Innoviz Technologies
CD129	车路通科技（成都）有限公司
CD130	南京公路发展（集团）有限公司
CD131	宏远航运有限公司
CD132	江苏平山交通设施有限公司
CD133	欧梯恩智能科技（苏州）有限公司
CD134	张家港市金城物联智慧城市开发运营有限公司
CD135	湖南湘旭交安光电高科技股份有限公司
CD136	南京畅淼科技有限责任公司
CD137	清陶（昆山）能源发展股份有限公司
CD138	武汉中衡博然科技有限公司
CD139	苏州软件评测中心有限公司
CD140	江苏车视杰电子有限公司
CD141	张家港电子口岸有限公司
CD142	《中国交通信息化》杂志
CD144	广州南方测绘科技股份有限公司
DA01	航天时代飞鹏有限公司
DA03	中车株洲电力机车有限公司
DC01	九识（苏州）智能科技有限公司
DC02	新石器慧通(北京) 科技有限公司
DC03	苏州海通机器人系统有限公司
DC04	苏州海管家物流科技有限公司
DC05	南京莱斯信息技术股份有限公司
DC06	ITS Indonesia
DC07	泰州绿色低碳智慧港口

展位号	参展企业
DC08	苏州科达科技股份有限公司
DC09	南京现代综合交通实验室
DC10	苏州规划设计研究院股份有限公司
DC12	清华大学
DC13	江苏东交智控科技集团股份有限公司
DC22	江苏电卡科技有限公司

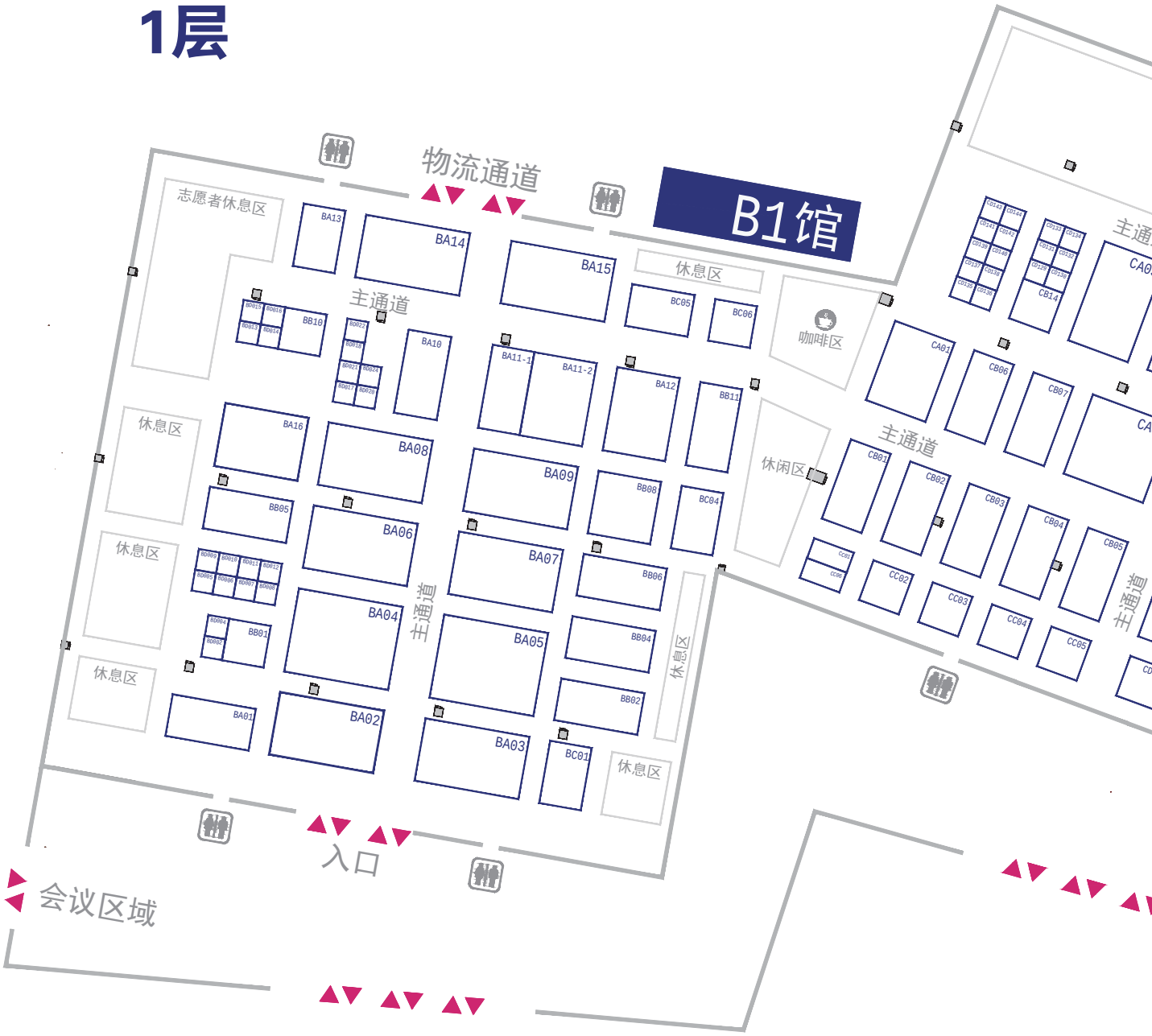
区域	演示单位
飞行演示区	广东汇天航空航天科技有限公司
自动驾驶区	苏州工业园区
	清华大学
	北京一径科技有限公司
自动游船区	陕西欧卡电子智能科技有限公司
静态演示区	江苏鸿鹄电子科技有限公司
	南京蓝泰交通设施有限责任公司
	苏州轻舟智航智能技术有限公司
	苏州中飞遥感技术服务有限公司

创 新 区

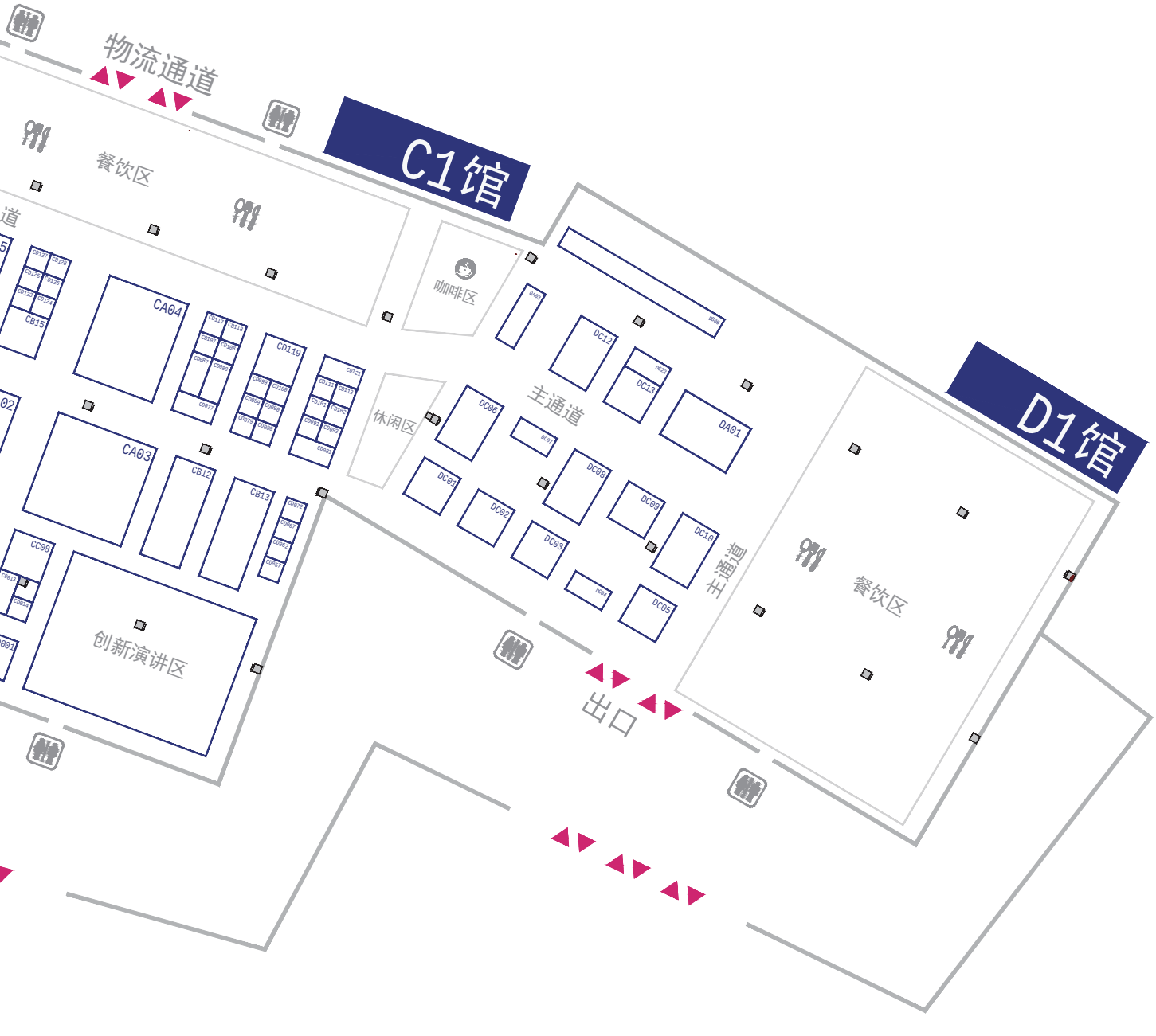
大会在 C 馆一楼展示区设置了创新演讲区，用于开展产业推荐活动，推介苏州产业政策等，也便于各位参会代表展示交流、宣传推介和招商引资。

展位图

苏州国际博览中心
苏州金鸡湖国际会议中心
1层



展位图


物流通道
C1馆
餐饮区
咖啡区
休闲区
主通道
CA04
CA03
CB12
CB13
CB15
CC08
CD119
DA01
DC01
DC02
DC03
DC05
DC06
DC09
DC10
DC12
DC13
创新演讲区
出口
D1馆
餐饮区

交通方式

前往苏州

国际或国内城市 — **上海虹桥** — **苏州**

1 上海虹桥国际机场 **T1航站楼**

1 上海虹桥国际机场 **T2航站楼**

方式一
地铁：2站约10分钟
方式二
出租车：约7.5公里，15分钟
CNY30

步行:
约840m
约15分钟

2 上海虹桥火车站

高铁:
约30-40分钟
CNY39.5

3 苏州火车站

方式一
地铁:约35分钟

4 苏州国际博览中心

方式二
出租车：约12公里，30分钟
CNY40

国际或国内城市 — **上海浦东国际机场** — **苏州**

1 上海浦东国际机场 → 2 苏州国际博览中心

步行至浦东机场T2 二层乘坐机场长途巴士，抵达苏州国际博览中心，约2小时10分钟
班车表：11:30/13:20/15:20/17:20 票价：CNY100
购票方式：现场购买或关注公众号“空港巴士”购买

国际或国内城市 — **无锡硕放** — **苏州**

1 无锡硕放国际机场

方式一:
出租车：约44公里，54分钟，
CNY180

2 苏州火车站

2 苏州国际博览中心

方式二: 步行至巴士站台乘坐机场长途巴士，抵达苏州火车站，约45分钟
班车表:9:10/10:00/10:30/11:00/11:30/12:00/12:30/13:00/13:30/14:00/15:00/15:30/15:50/16:10/16:50/17:20/18:00/19:00/20:30
票价:CNY50
购票方式:现场购买或关注公众号无锡客运微信公众号及巴士管家APP

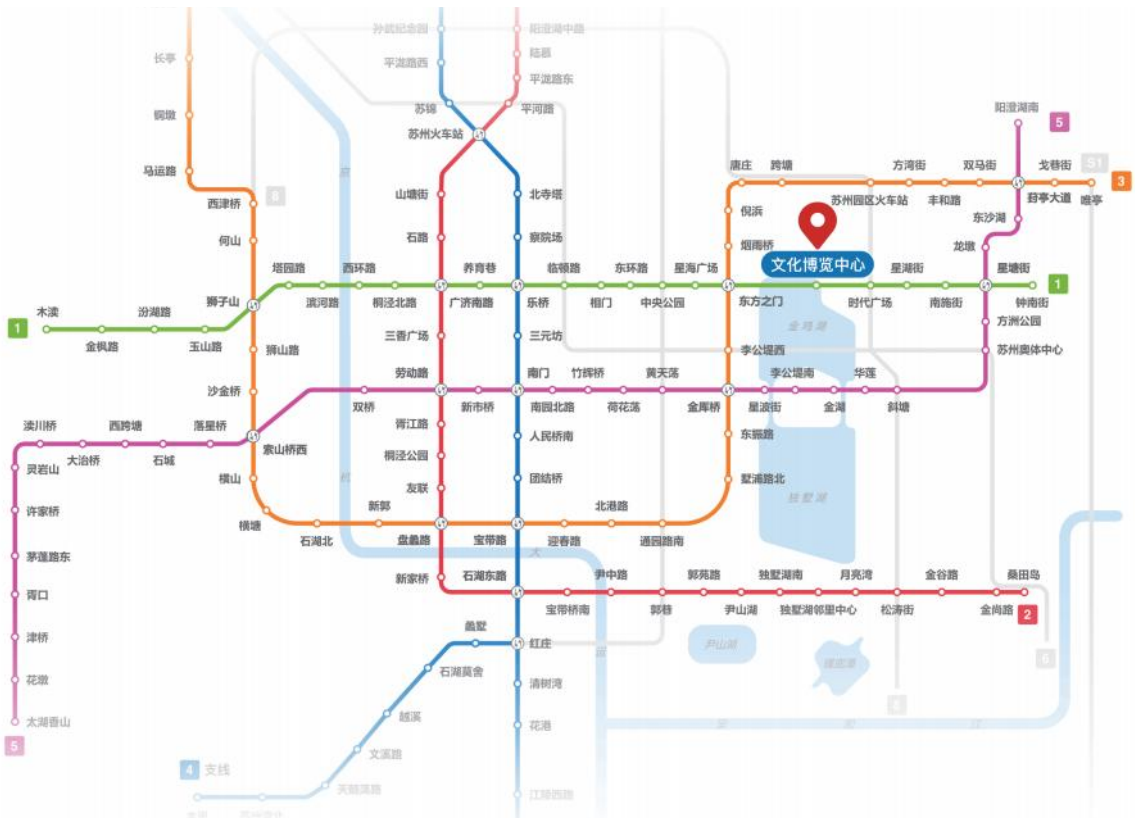
详细信息可浏览大会官方网站：
www.itsworldcongress2023.com

前往会场

出租车
乘出租车到会场

火车站	车程	地铁
苏州北站	30 分钟	✓
苏州站	20 分钟	✓
苏州园区站	5 分钟	✓

地 铁
乘地铁到会场



地铁一号线文化博览中心3号口，直达场馆

接机服务

我们将在上海浦东国际机场安排班车送您至苏州国际博览中心。
在机场到达出口，将有志愿者举牌迎接您。请认准以下大会接机牌。
10月14日发车时间：18:00。
10月15日发车时间：15:00。
如您由于时间问题无法乘坐班车，您可自行前往苏州。

接驳车

每日班车信息：
日期：2023年10月16-20日
关于从大会推荐酒店到会场的接驳，大会将安排部分官方住宿酒店前往会场的循环班车。

详细信息可浏览大会官方网站：
www.itsworldcongress2023.com

序号	酒店	地址	电话	距离会场
1	苏州文博诺富特酒店	苏州工业园区苏州大道东688号	86-512-62882800	100米
2	苏州凯悦酒店	苏州工业园区华池街88号（近诚品书店）	86-512-62881234	1.1公里
3	苏州洲际酒店	苏州工业园区金鸡湖畔旺墩路288号	86-512-62858888	0.8公里
4	苏州园区香格里拉大酒店	苏州工业园区思安街99号协鑫广场	86-512-62639999	1.1公里
5	苏州金鸡湖凯宾斯基大酒店	苏州工业园区国宾路1号	86-512-62897888	8.9公里
6	苏州中茵皇冠假日酒店	苏州工业园区金鸡湖畔星港街168号	86-512-67616688	4.1公里
7	苏州万怡酒店	苏州工业园区工业园区星海街188号	86-512-67066666	4.1公里

登记处开放时间

登记处位于苏州国际博览中心

1.主持人及发言人

登记地点为A馆1楼，开放时间如下：

2023年10月15日，星期日	09:00 – 20:00
2023年10月16日，星期一	06:45 – 18:00
2023年10月17日，星期二	06:45 – 18:00
2023年10月18日，星期三	06:45 – 18:00
2023年10月19日，星期四	06:45 – 18:00
2023年10月20日，星期五	06:45 – 14:00

2.参加会议的观众

登记地点为A馆1楼，开放时间如下：

2023年10月15日，星期日	09:00 – 18:00
2023年10月16日，星期一	08:00 – 18:00
2023年10月17日，星期二	08:00 – 18:00
2023年10月18日，星期三	08:00 – 18:00
2023年10月19日，星期四	08:00 – 18:00
2023年10月20日，星期五	08:00 – 16:00

2.参展观众、展商及演示人员

登记地点为B馆1楼，开放时间如下：

2023年10月15日，星期日	08:00 – 18:00
2023年10月16日，星期一	08:00 – 18:00
2023年10月17日，星期二	08:00 – 18:00
2023年10月18日，星期三	08:00 – 18:00
2023年10月19日，星期四	08:00 – 18:00
2023年10月20日，星期五	08:00 – 15:30

重要提示

本手册内容更新至2023年10月9日，大会安排最终以官网为准。

欧洲

程序和论文：

Ms. Rita Bhandari
Ms. Delphine Soubies
ERTICO-ITS Europe

Email:
SpeakersITS@mail.ertico.com

美洲

程序和论文：

Ms. Rachel Rettberg
ITS America

Email:
rrettberg@itsa.org

亚太

特别会议：

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ITS Japan/ITS Asia-Pacific

Email:
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论文：

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ITS Japan/ITS Asia-Pacific

Email:
h-ide@its-jp.org

主持人/演讲团队

Mr. 赵安能

Email: speaker@itswc2023.com

通用信息

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Email: info@itswc2023.com

议程

Ms. 刘安琪

Email: program@itswc2023.com

展览及赞助

Ms. 许静

Email: exhibition@itswc2023.com

技术支持

Mr. 赵安能

Email: tech@itswc2023.com

注册信息

Mr. 赵安能

Email: registration@itswc2023.com


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致 谢

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JSTI | 苏交科集团股份有限公司

股票名称：苏交科　　股票代码：300284

苏交科集团股份有限公司（以下简称“苏交科”）是基础设施领域综合解决方案提供商，始终致力于提供创新性、引领性解决方案，打造国际化科技企业集团，实现高质量可持续发展。公司成立于1978年，2012年1月10日，集团首次公开发行A股股票并在深圳证券交易所正式挂牌上市（股票代码：300284）。2015年5月，“苏交科集团股份有限公司”正式揭牌。2016年，集团战略联合了全球领先的工程设计咨询服务商—西班牙EptisaServiciosdeIngenieria,S.L.（简称“Eptisa”）公司。

目前共有员工8500多名，拥有108家子公司，在全球20多个地区设立分支机构，60多个国家开展项目。

未来，苏交科将持续立足本地、放眼全球，以数据底座、正向设计打造业务中台，以管理知识及能力沉淀为管理中台，以数字化、产业化为双助推器，突破能力上限，打造行业内最具影响力的智库型科技平台，助推行业高质量可持续发展。

科技创新

苏交科坚持自主科技创新，先后申请并获准成立了两个国家级科研平台：“新型道路材料国家工程研究中心”、“长大桥梁安全长寿与健康运维全国重点实验室”，同时拥有7个部级平台，21个省级平台，覆盖了公路、城轨、环境、节能减排、水运、地下工程及智能交通等领域。

企业荣誉

国家创新型企业
（国家科学技术部 国务院国资委 中华全国总工会，2011年）

国家知识产权示范企业
（国家知识产权局，2017年）

国家企业技术中心
（国家发展改革委 科技部 财政部 海关总署 国家税务总局，2018年）

国家引进智力示范单位
（科学技术部外国专家局，2004年/2008年/2013年/2020年）（全国第一批）

典型示范试验检测机构
（交通运输部，2010年）

江苏省省长质量奖
（江苏省人民政府，2022年）
（江苏省交通领域第一家）

典型项目


全地域公路设计
【四川省绵竹至茂县公路】


经济和社会发展咨询
【摩洛哥GHARB、HAOUZ等地区农业灌溉现代化项目管理中心】


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投融资解决方案及项目投资分析
【中山至开平高速公路项目】


大型水利枢纽及水运工程设计
【玻利维亚：罗西塔斯水电站建造项目】


城市基础设施设计
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环境咨询、环境治理
【青海省花石峡至久治（省界）公路环境监理】


建筑、工业和能源管理
【2016年里约奥运会国际通信中心详细设计实施】


铁路及轨道交通设计
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可持续发展路面技术和新材料研发
【青海省S103线西宁至甘禅口段生态修复工程】


智慧城市、智慧交通
【印度智慧城市】


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Innovusion图达通是全球图像级激光雷达及解决方案提供商，在国内外与多家主机厂、自动驾驶公司、车联网、智慧高速、智慧港口、智慧航运、智慧轨交、智慧矿区以及Robo等行业龙头企业开展积极合作，用先进的硬件及软件解决方案赋能安全与智能生活。

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华设设计集团（以下简称“华设集团”）创立于1960年，是中国领先的全过程咨询技术服务商，前身为江苏省交通规划设计院，2014年在上海证券交易所整体上市（华设集团，603018），成为A股首家独立上市的工程设计公司。

华设集团在全球拥有6300多名员工，深耕交通、城乡两大基础设施领域，充分发挥资质高、专业全的特色，始终坚持多专业、跨行业融合发展，从江苏走向全国，从规划设计走向全生命周期服务，从基础设施走向智慧、环保、新能源、装配式建造、商业消费等新兴专业领域，在交通规划、全地形高速公路、千米级跨江大桥、超长水下隧道、航道港口、城市快速路、城市轨道交通、水利水务等细分市场拥有众多行业隐形冠军和技术品牌，成为全国唯一一家具备交通全行业（公路、铁路、水运、航空）综合设计能力的工程咨询设计集团。

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滴滴是全球知名的移动出行科技平台，在亚太、拉美等市场提供网约车、出租车召车、代驾、顺风车等多元化出行服务，并运营车服、外卖、货运业务。

滴滴为车主、司机及骑手提供了灵活的工作和收入机会。滴滴致力于与各地监管部门、出租车行业、汽车产业等伙伴及社群积极协作，用本地化的人工智能技术推动智慧交通创新，共同解决全球交通、环保和就业挑战。滴滴将持续致力于提升用户体验，创造社会价值，建设安全、开放、可持续的未来移动出行和本地生活服务新生态。

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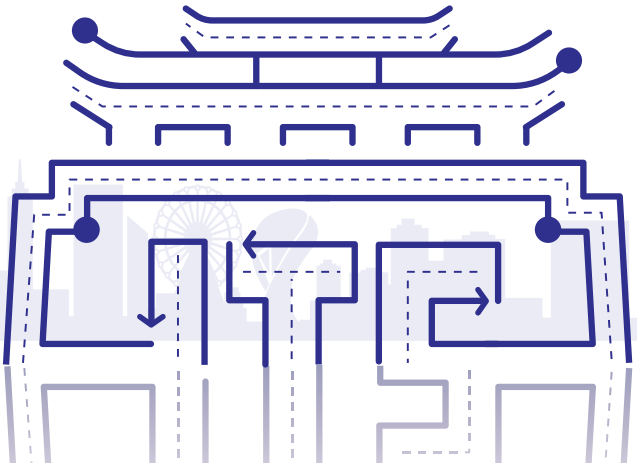

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