

Korea-UK Joint Conference on Connected and Automated Mobility

Venue: Millennium Hilton Seoul, Korea and Virtually on the Internet
Date: October 27, 2020 (Tuesday)

About the Conference

This is the first conference on connected and automated mobility (CAM) jointly organized by the Republic of Korea and the UK. Both countries have been putting continuing effort into promoting bilateral collaboration between researchers, developers, and entrepreneurs. CAM technology will see future vehicles being rapidly equipped with diverse capabilities such as machine intelligence for self-driving and connectivity via wireless cellular networks. Developing and deploying CAM will raise a wide variety of both technological and social issues related to public regulation, legislation, communication and computing infrastructures, validation of CAM and mobility services. Invited and distinguished speakers from both countries will present their definition of a specific problem of CAM and solution. The conference will help the audience better understand the technical competence, policies and service deployment strategies of the two countries, and promote international collaboration in the CAM industry.

The audience will include policy makers, senior officials, academic researchers, industrial developers, and senior managers in the related technological areas.

Hosted by: The Korean Society of Automotive Engineers (KSAE); IEIE; KICS The Korean Institute of Communications and Information Sciences; TTA 한국정보통신기술협회 Telecommunications Technology Association; British Embassy Seoul; cenex

Managed by: Automotive Semiconductor and S/W Research Group (KSAE)

Sponsored by: Ministry of Science and ICT; British Embassy Seoul

Conference Organisers

Programme Co-Chairs

- Seongsoo Hong (Seoul National University, Korea)
- Robert Evans (Cenex, UK)

Programme Committee

- Youngsup Joo (Korea University, Korea)
- Kangrim Choi (Korea Telecom, Korea)
- Soojung Ryu (Seoul National University, Korea)
- Jiyoung Lee (British Embassy Seoul, Korea)
- Jess DeLooy-Hyde (Centre for Connected and Autonomous Vehicles (CCAV), UK)
- David Wong (Society of Motor Manufacturers and Traders (SMMT), UK)
- Michael Talbot (Zenzic, UK)
- Jay Nagley (Department for International Trade (DIT), UK)

Conference Programme

Seoul Time		GMT		
13:00~13:10		4:00~4:10		**Opening Address** The Future of Mobility: UK CAM Expertise, Zero Emission Vehicles and Leadership of COP26 Simon Smith *British Ambassador to Seoul*
13:10~14:50	**Session I**			**Public Regulation/Legislation**
	13:10~13:30	4:10~4:30	S1	Changing the Rules: How the UK is Regulating CAM Technology Iain Forbes *Head of the Centre for Connected Autonomous Vehicles (CCAV)*
	13:30~13:50	4:30~4:50	S2	Channelling UK Public R&D Policy to Accelerate CAM Deployment Dr Daniel Ruiz *CEO, Zenzic*
	13:50~14:20	4:50~5:20	S3	Korean Policy & Technology Development for Future Automotive Jae-Yong Park *Director of External Cooperation Department, Strategic Research Planning Division, KATECH* Policy Direction for the Commercialization of Safe AVs Inseong Choi *Principle Researcher, Automated Vehicle Policy Office,, KATRI* SW Development Strategy for Autonomous Driving Service Platform Jeongdan Choi *Assist Vice President & Principal Researcher, ETRI*
	14:20~14:50	5:20~5:50	PD1	Panel Discussion Youngsup Joo *Professor, Korea University*
14:50~15:10				Break
15:10~18:00	**Session II**			**CAM Technologies**
	15:10~15:30	6:10~6:30	S4	Connected and Automated Mobility: State of Development and Future Opportunities in the UK Mike Hawes *CEO, The Society of Motor Manufacturers & Traders (SMMT)*
	15:30~15:50	6:30~6:50	S5	How Will Software-Centric Vehicles Affect Future Automotive Supply Chain? Seongsoo Hong *Professor, Seoul National University*
	15:50~16:10	6:50~7:10	S6	UK View on 5G for Mobility Bob Banks *Technology Development Director, Vodafone UK*
	16:10~16:30	7:10~7:30	S7	Big Data for CAM in UK Chris Lane *Head of Transport Innovation, Transport for West Midlands (TfWM)*
	16:30~16:50	7:30~7:50	S8	Trends in Validation Facilities for Connected and Automated Mobility Technology and Services Richard Porter *Technology and Innovation Director, Zenzic*
	16:50~17:10	7:50~8:10	S9	KT 5G CAM (Connected and Automated Mobility) Platform Seongeun Cho *Senior Director, Head of 5G Smart Platform Development, KT*
	17:10~17:30	8:10~8:30	S10	LiDAR/RADAR for Enhanced Safety Sung-Joo Cho *Principal Researcher in R&D Center, Carnavicom*
	17:30~18:00	8:30~9:00	PD2	Panel Discussion and Q&A Seongsoo Hong *Professor, Seoul National University*
18:00~18:40				Dining Break
18:40~20:50	**Session III**			**CAM Services**
	18:40~19:00	9:40~10:00	S11	The Investment Case for CAV and Mobility Cyber Resilience Peter Davies *Director Security Concepts, Thales*
	19:00~19:20	10:00~10:20	S12	Real World Trials of Aurrigo Pods and Shuttles Miles Garner *Sales & Marketing Director at RDM Group, Aurrigo*
	19:20~19:40	10:20~10:40	S13	Robotaxi 2025 Sanghee Shin *Director of Strategy, Motional*
	19:40~20:00	10:40~11:00	S14	Crowdsourcing HD Map Update for Autonomous Driving Jongyoon Peck *Executive Officer & Head of Autonomous Driving Group, Naver Labs*
	20:00~20:20	11:00~11:20	S15	Mobility Service from an OEM Perspective Juyup Kang *Head of Transformation Planning Team, KIA Motors*
	20:20~20:50	11:20~11:50	PD3	Panel Discussion and Q&A Kangrim Choi *Senior Vice President, Head of Connected Car Business Center, KT*
20:50		11:50		**Closing Remarks by Robert Evans**
21:00~22:00				Networking Reception

Registration

This conference is a virtual conference (online live streaming) and the registration fee is **FREE.**

For UK
Click to register

한국자동차공학회 회원 및 비회원
사전등록 바로 가기

Please note that your personal information will be used only to provide our conference access to the participant.

Contact

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- Email. conf@ksae.org

Programme Co-Chairs



Seongsoo Hong

Professor, Seoul National University

Seongsoo Hong earned his B.S. and M.S. degrees in computer engineering from Seoul National University, Korea, in 1986 and 1988, respectively. He received his Ph.D. degree in computer science from the University of Maryland, College Park, in 1994. He is currently a professor in the Department of Electrical and Computer Engineering at Seoul National University. His current research interests include embedded and real-time systems design, real-time operating systems, software architecture for embedded and real-time systems and cross-layer optimization of complex multi-layered software systems. He is the steering committee of IEEE RTCSA. He served as a general co-chair of IEEE RTCSA 2006 and CASES 2006 and as a program committee co-chair of IEEE RTAS 2005, RTCSA 2003, IEEE ISORC 2002 and ACM LCTES 2001. He has served on numerous program committees, including IEEE RTSS and ACM OOPSLA. He is a member of the National Academy of Engineering of Korea. He is currently a senior member of the IEEE and a senior member of the ACM.



Robert Evans

CEO, Cenex

Robert Evans is CEO of Cenex (www.cenex.co.uk), a not-for-profit consultancy and research organisation with a strategic focus on supporting supply chain and market development for Automated, Connected, Electric and Shared (ACES) mobility.

During his 15 years as CEO, Robert has overseen the development and delivery of a range of low carbon vehicle technology projects including for electric, hydrogen and gas vehicles and recharging\refuelling infrastructure projects. He has also established Cenex-LCV (www.cenex-lcv.co.uk) and Cenex-CAM (www.cenex-cam.co.uk) as major UK technology showcasing and networking events for the low carbon vehicle and connected automated mobility communities.

Cenex is recognised for its role in technology transfer, helping assist with the trialling of new technologies as a means of moving from product development research and laboratory test and validation, through to market introduction. Cenex' research and consultancy projects help de-risk the application of new technologies with first customers and provide an evidence base that can shape policy and market development.

Prior to joining Cenex, Robert developed international markets for energy, environmental and automotive technologies, including fuel cells and vehicle emissions control.

Panel Chairs



Youngsup Joo

Professor, Korea University

Dr. Joo is Distinguished Professor engaged at Korea University, Chairman of Korea ICT Convergence Network and also a senior member of the National Academy of Engineering of Korea. He had served for the Korean government as Minister responsible for SMEs and start-ups, Member of the National Economic Advisory Council, a consultative body for the Korea President, and Managing Director at Office of Strategic R&D Planning, Ministry of Knowledge Economy (now MOTIE). He also had been engaged with Seoul National University as Visiting Professor and Chairman of Industry-University Collaboration Committee at College of Engineering. Prior to that, he had spent 30 years with the industry, mostly in the automotive and electronics industry, and took many leadership positions including CEO at Hyundai Autonet, Bontec, and GE Thermometrics Korea and Asia Pacific.

He received a Ph.D. degree in industrial engineering from Pennsylvania State University, an M.S. degree in production engineering from Korea Advanced Institute of Science and Technology, and a B.S. degree in mechanical engineering from Seoul National University.



Kangrim Choi

Senior Vice President, Head of Connected Car Business Center, KT

Kangrim Choi is a Senior Vice President of KT Corp., formerly well known as Korea Telecom. Mr. Choi is currently responsible for managing Autonomous Driving & Connected Mobility business based on the 5G, AI, Big Data and KT's Mobility Platform, which is one of key new business domains of KT, in the 'AI/DX Convergence Business Group', which plans and controls corporate-level strategic initiatives. Before becoming Head of Connected Car Business Center, he was Director of IoT & New Business Strategy Team at KT from 2013, where he was responsible for business modeling, platform development and new service launch.

Prior to joining KT, Mr. Choi was a research engineer at General Motors and Hyundai Motor Company, where he became knowledgeable about automotive industry. Mr. Choi received his master's degree in Industrial & Systems Engineering from Georgia Institute of Technology in the U.S. and an M.S. & B.S. in Mechanical Engineering from Hanyang University in Seoul, Korea.

Speakers



Simon Smith

British Ambassador to Seoul

Simon Smith has been British Ambassador to the Republic of Korea since March 2018. He began his career in the Diplomatic Service in 1986, and has also worked at the British Embassies in Kiev, Vienna, Tokyo and Moscow. Simon is from Bristol, and studied German and French at Oxford University.



Iain Forbes

Head of the Centre for Connected Autonomous Vehicles (CCAV)

Iain Forbes is the head of the UK Government's Centre for Connected and Autonomous Vehicles, a policy unit based jointly in the Department for Transport and the Department of Business, Energy and Industrial Strategy. The Centre aims to help ensure that the UK remains a world leader in developing and testing connected and autonomous vehicles. Prior to joining CCAV Iain worked in No10 as a Private Secretary to the Prime Minister, covering issues including transport and the devolved administrations. He has previously worked in both the Department for Transport and the Home Office, advising on innovation, science and technology, security policy and environmental strategy.



Daniel Ruiz

CEO, Zenzic

Daniel joined Zenzic as CEO in November 2017 to lead the UK's £200 million connected and self-driving development programme. Prior to leading Zenzic, he managed a 500-strong team as MD of Dynniq UK, tackling traffic challenges with technology-based solutions. Daniel also oversaw the London Streets Traffic Control Centre and maintenance of Greater London's 6000 sets of traffic lights and set up the Transport Coordination Centre for the London 2012 Olympics. Daniel has a PhD in engineering from New College, Oxford.



Jae-Yong Park

Director of External Cooperation Department, Strategic Research Planning division, KATECH

Dr. Jae Yong Park is a director of external cooperation department at Korea Automotive Technology Research Institute(KATECH) in Korea. Dr. Park is an expert in international R&D cooperation with a focus on new technology development and growth in automotive components. Recently, he completed the project that was to develope AEB system based on mono camera sensor with Spain (IDIADA). KATECH has been designated as a global technology collaboration center for EVs & autonomous vehicle by Ministry of trade, industry & Energy(MOTIE).



Inseong Choi

Principle Researcher, Automated Vehicle Policy Office,, KATRI

In Seong Choi is a principal researcher at the AV Research Office of Korea Automobile Testing & Research Institute, supporting AV safety assessment research and government policy. Recently he supported the MOLIT(Ministry of Land, Infrastructure and Transport) to develop domestic safety standards and legal systems for Level 3 AV and a pilot zone for commercialization of various services based on fully automated vehicles. Currently, he is managing AV Forum to support domestic policies related to AV, and leads researches on legal systems for Level 4 AV.



Jeongdan Choi

Assist Vice President & Principal Researcher, ETRI

Jegondan has been leading Autonomous Driving SW group since 2009, focusing on ICT(including SW, AI, 5G)-based autonomous mobile platform. In the meantime, to maintain the up-to-datedness of the precision map, real-time update software has been developed. In addition, a full package of an urban autonomous driving system has been implemented within the development team and is being tested at the Daedeok Research Complex. In recent, research on weight reduction and optimization of the algorithm is underway to apply the autonomous driving AI function module to low-power AI semiconductors. In 2017, she served as an advisor of Presidential Advisory Council on Science and Technology.



Mike Hawes

CEO, The Society of Motor Manufacturers & Traders (SMMT)

Mike Hawes became Society of Motor Manufacturers and Traders (SMMT) Chief Executive in 2013. The SMMT is the trader association for the motor industry supply chain in the UK. Mike has more than 20 years' experience in policy and public affairs, the majority of which has been spent in the motor industry. He joined SMMT from Bentley Motors where he held a number of PR, corporate and public affairs roles. Prior to that, he also worked for both Toyota and, more recently, Bentley's parent company, Volkswagen AG, where he developed the European and global knowledge needed for this challenging role.



Bob Banks

Technology Development Director, Vodafone UK

Bob has 34 years in the cellular communications industry with Vodafone both at the local market MNO level in UK and Netherlands and at the Group level. Holder of BSC, MSC and PhD in electrical and electronic engineering specialising in comms, member of IET and Chartered Engineer status.



Chris Lane

Head of Transport Innovation, Transport for West Midlands (TfWM)

Chris Lane is Head of Transport Innovation at Transport for West Midlands. In this role he delivers change through people, processes and technology across a portfolio of programmes, including a commercial Mobility as a Service and a Connected and Autonomous Vehicle testbed in the West Midlands. Working in transport for most of his life, he has had the opportunity to deliver significant changes to public transport. His background encompasses delivering significant Business Transformation programmes, implementing innovative ITS and ICT systems and playing a major role in the successful delivery of TfWM's Smartcard and Passenger Information schemes.



Richard Porter

Technology and Innovation Director, Zenzic

Richard is a cyber security expert, with over 11 years experience in defence and national security. His previous roles have included Director of Research and Innovation at Highways England, UK Research Liaison to the US Department of Defence and Security, and policy advisor and crisis manager at the FCO. Richard has a passion for new technologies and encouraging collaboration to deliver solutions to market quickly and effectively.



Seong-Eun Cho

Senior Director, Head of 5G Smart Platform Development, KT

Seongeun Cho is a senior director of 5G Smart Platform Development Dept. of KT. Seongeun is responsible for the development of Smart Service Platforms and IoT Platform of KT.
As an expert in IoT, Seongeun has successfully launched the KT's OPEN IoT Platform, Home IoT, Smart Factory and Smart City service platforms.
Recently, Seongeun has put efforts on discovering Use Cases using 5G network. Among them, various attempts are being made in the Mobility Services. Seongeun is making various efforts to develop and monetize the CAM(connected and Automated Mobility) platform.



Sung-Joo Cho

Principal Researcher in R&D Center, Carnavicom

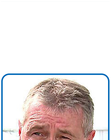
Sung-Joo Cho graduated from the Department of Physics in Seoul National University and earned Ph.D degree in Laser Physics at Lebedev Physical Institute of Russian Academy of Sciences. He worked as a senior research officer at Remote Sensing Lab. in National Institute of Meteorological Research of Korea Meteorological Administration(KMA). He has developed and commercialized Laser Remote Sensing Devices such as LIDARs, Optical Fog sensors and Laser particle counters based on the state-of-art technology in Korea. Especially he has worked in developing Lidar technology including the eye-safe High-resolution 3-D Lidar sensors more than 20 years and registered more than 20 patents in Korea and abroad.



Peter Davies

Director Security Concepts, Thales

As Director Security Concepts at Thales in the UK Peter has been their leading expert on Cryptography in the UK responsible for providing cryptography and information security direction and expertise on a variety of products and projects.
Peters' specialist knowledge is at the core of the cyber defence and forensics activities that he undertakes combatting existential treats against business.
As well as contributing to standards Peter is a frequent speaker at international conferences and delivers lectures to postgraduate information and cyber security programmes in the UK and worldwide.
Peter currently leads the Security Workstream for the Automotive Electronic Systems Innovation Network (AESIN) and security lead to the Innovate UK funded research programmes AutoDrive and RoboPilot.



Miles Garner

Sales & Marketing Director at RDM Group, Aurrigo

30 years' experience within the automotive, telematics and consumer electronics industry. Previously worked for Philips, Sony UK / Europe, RDM / Autotxt, Cobra and then re-joined RDM in 2013.
Aurrigo Driverless Technologies is a new division of RDM Group.
Aurrigo is the future of first and last mile transportation. Aurrigo's self driving pods provide mobility within urban areas, shopping malls, airports, university campuses, science parks and other areas that are poorly served by traditional transport providers. Integrating seamlessly into the transport mix, Aurrigo's on demand, autonomous passenger and cargo carrying pods work alongside traditional forms of transport such as taxis, buses and light rail.
Aurrigo design and develop both the vehicles and the autonomous control system in house to ensure a perfect pairing of hardware and software.



Sanghee Shin

Director of Strategy, Motional

Sanghee is a strategy expert, with over 15 years of experience across consulting and engineering. In Motional, he is leading strategy discussions regarding business opportunities, value chain coverage, and technical partnership. Prior to Motional, he was a principal in the Boston Consulting Group, focusing on the automotive industry and technological strategy. He also had over 6 years of experience in Hyundai motors as a research engineer.



Jongyoon Peck

Executive Officer & Head of Autonomous Driving Group, Naver Labs

Mr. Jongyoon Peck has been leading NAVER LABS' autonomous driving group since 2016, focusing on future mobility and road environment digitization. Peck worked as a principal engineer of Advanced Technology Center at Samsung Techwin.
Combining the actual driving condition data with deep learning technologies, NAVER LABS has made rapid strides in autonomous driving technology and has become the first in South Korea's IT industry to receive a temporary operating permit from the Ministry of Land, Infrastructure and Transport in February 2017.
With NAVER LABS Hybrid HD mapping technology, self-driving vehicle can identify their current location accurately and safely even in the densest parts of cities, where GPS signals are easily lost. His team is currently focusing on AD data-algorithm integration, and on-road AD machine platform development.
Since 2018, he has been serving as an AD TF committee member of KOREA Presidential Committee of 4th Industrial Revolution.



Juyup Kang

Head of Transformation Planning Team, KIA Motors

Juyup is the head of transformation planning team, which has been leading the execution of the transformation strategy, so called 'Kia Plan S'. Plan S outlines Kia's preemptive and enterprising 'shift' from a business system focused on internal combustion engines toward one centered on electric vehicles and customized mobility solutions.
Prior to joining Kia, Juyup worked as management/business/IT consultant in various industries.