

Smart Transportation Innovation Global Workshop in Ulsan

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UNIST
ULSAN NATIONAL INSTITUTE OF
SCIENCE AND TECHNOLOGY

울산광역시
ULSAN METROPOLITAN CITY

UC San Diego

The City of
SAN
DIEGO

발표자 Speakers



Professor Sujit Dey
Electrical and
Computer Engineering, UCSD



Professor Hyo-il Kim
Electrical and
Computer Engineering, UNIST
김효일 교수
전기전자컴퓨터공학부, UNIST



Kang-rim Choi, Vice President
Connected Car Business
Department, KT
최강림 상무
KT 플랫폼사업기획실



Jae-pyeong Lee, Director
Advanced Motor Vehicles
Policy Division, MOLIT
이재평 과장
국토교통부 첨단자동차기술과



**David Graham, Deputy Chief
Operating Officer**
Neighborhood Services,
City of San Diego



Jae-ho Hwang, Director
DAS Engineering Group,
Hyundai MOBIS
황재호 이사
현대모비스 DAS설계실



Sung-Keun Kim, Team Leader
Future Technology Strategy Team,
Hyundai Motor Group
김성근 부장
현대자동차 미래기술전략실



Sang-hee Lee, Manager
Transportation Policy Division,
Ulsan Metropolitan City
이상희 주무관
울산광역시 교통정책과



Professor Xinyu Zhang
Electrical and
Computer Engineering, UCSD



Seok-woo Lee, CEO
Penta Security Systems
이석우 대표
펜타시큐리티시스템



Si-bok Yu, Director
Vehicle Autonomous Technology
R&D Center, KATECH
유시복 센터장
자동차부품연구원 자율주행기술센터

Smart Transportation Innovation Global Workshop in Ulsan

2018.11.07. | 수 | 11:00

UNIST 본관 4층 경동홀
(Main Building 4F, UNIST)

주최  울산광역시  UNIST

모시는 글 Welcome

UNIST 총장 정무영
President of UNIST Mooyoung Jung



최근 자동차와 IT 기술의 융합으로 자율주행 자동차 관련 기술이 빠르게 발전하고 있습니다. 많은 IT기업들과 자동차 제조사, 대학과 연구기관들은 자율주행자동차가 미래 성장동력이 될 것으로 예상하고 있으며, 핵심 기술 확보와 상용화에 주력하고 있습니다.

금년 2월, UNIST는 UNIST, UCSD(University of California San Diego), 샌디에이고시, 울산광역시와 상호협력 협약(MOU)을 체결하고, **스마트 운송시스템 관련 기술의 연구개발과 사업화를 공동으로 추진하는 것을 목적으로 하는 STIP(Smart Transportation Innovation Program)** 사업을 진행하고 있습니다.

그 사업의 일환으로 국내외 전문가들을 초빙하여, 기술동향, 산업 전망, 효과적인 대응전략 수립에 필요한 지식과 정보를 공유하는 글로벌 워크숍을 개최하고자 합니다. 이번 워크숍에 참석하시는 모든 분들이 유익한 정보를 습득하고 새로운 협업 네트워크를 만드는 기회가 될 수 있기를 희망합니다. 많은 관심과 참여를 바랍니다.

With the recent convergence of automobile and IT technology, autonomous vehicle technology has been rapidly developing. Many IT companies, automobile manufacturers, universities and research institutes are expecting autonomous vehicles to become a growth engine of the future, and so are focused on the securing and commercialization of key technologies.

In February of this year, the Ulsan National Institute of Science and Technology signed a Memorandum of Understanding with the University of California San Diego, the City of San Diego, and Ulsan Metropolitan City to jointly promote research & development for along with the commercialization of technologies related to smart transportation systems. We are calling this project STIP or the Smart Transportation Innovation Program.

As part of this project, we are hosting a global workshop for experts from both near and far to share their knowledge and the information needed to establish technological trends, industry outlook, and effective response strategies.

It is my hope that everyone who attends this workshop will have the opportunity to gain actionable information and create new networks for collaboration.

I feel confident you will all feel the excitement I feel about this opportunity and look forward to taking part with you at this workshop.

프로그램 Program

2018.11.07. | 수 | 11:00
UNIST 본관 4층 경동홀
(Main Building 4F, UNIST)

10:30~11:00	접수	
11:00~11:05	개회식	개회안내 (사회자)
11:05~11:30		개회사 및 축사 (UNIST 총장, UCSD 관계자, 울산광역시 관계자, 샌디에이고시 관계자)
11:30~12:00	기조강연	Overview and Vision of Smart Transportation Innovation Program, Collaborative vehicles and streets for safe, efficient and green assisted and autonomous driving (Sujit Dey 교수, Electrical and Computer Engineering, UCSD)
12:00~13:00	점심식사	
13:00~13:20	Smart Mobility 정책방향	자율주행 상용화를 위한 스마트교통시스템 구축방안 (이재평 과장, 국토교통부 첨단자동차기술과)
13:20~13:40		Transportation versus Mobility : San Diego's Shift in Thinking and Doing (David Graham, Deputy Chief Operating Officer, Neighborhood Services, City of San Diego)
13:40~14:00		울산시 자율주행을 위한 스마트 도로 구축 (이상희 주무관, 울산광역시 교통정책과)
14:00~14:20	Smart Mobility 관련 기술 1	공동연구과제 UCSD 수행내용, V2X in 5G and Beyond: An Experiment-Driven Exploration (Xinyu Zhang 교수, Electrical and Computer Engineering, UCSD)
14:20~14:40		휴식시간
14:40~15:00		공동연구과제 UCSD 수행내용, 비용 효율적인 차량 환경 구축을 위한 컴퓨테이션 오프로딩 기법 (김효일 교수, UNIST 전기전자컴퓨터공학부)
15:00~15:20		자동차 및 통신 산업에서의 글로벌 트렌드 (최강림 상무, KT 플랫폼사업기획실)
15:20~15:40		ADAS/AD 센서 및 시스템 개발 현황 및 계획 (황재호 이사, 현대모비스 DAS설계실)
15:40~16:00	휴식시간	
16:00~16:20	Smart Mobility 관련 기술 2	미래 자동차 산업 전개 방향 (김성근 부장, 현대자동차미래기술전략팀)
16:20~16:40		스마트카의 보안 위협 및 대응 기술 (이석우 대표, 펜타시큐리티시스템)
16:40~17:00		자율주행차 개발전략과 ISO TC204 WG14 표준화 현장 상황 (유시복 센터장, 자동차부품연구원 자율주행기술센터)
17:00~17:30	패널토의	자율주행차의 상용화 전망과 과제 (좌장 : 이희승 교수, UNIST 디자인-공학 융합전문대학원)
17:30~18:00	마무리 및 네트워킹	

10:30~11:00	Registration	
11:00~11:05	Opening Ceremony	Welcome and Opening Address
11:05~11:30		Congratulatory Address (UNIST President, UCSD Official, Ulsan Metropolitan City Official, City of San Diego official)
11:30~12:00	Keynote Speech	Overview and Vision of Smart Transportation Innovation Program, Collaborative vehicles and streets for safe, efficient and green assisted and autonomous driving (Professor Sujit Dey, Electrical and Computer Engineering, UCSD)
12:00~13:00	Lunch	
13:00~13:20	Smart Mobility Policy	Smart Traffic System Plan for Commercialization of Autonomous Driving (Jae-pyeong Lee, Director, Advanced Motor Vehicles Policy Division, MOLIT)
13:20~13:40		Transportation versus Mobility : San Diego's Shift in Thinking and Doing (David Graham, Deputy Chief Operating Officer, Neighborhood Services, City of San Diego)
13:40~14:00		Smart Roads for Autonomous Driving in Ulsan (Sang-hee Lee, Manager, Transportation Policy Division, Ulsan City)
14:00~14:20		Cooperative Research Project, UCSD contents, V2X in 5G and Beyond: An Experiment-Driven Exploration (Professor Xinyu Zhang, Electrical and Computer Engineering, UCSD)
14:20~14:40	Break Time	
14:40~15:00	Smart Mobility related technology 1	Cooperative research project UNIST contents, Computation offloading for cost-effective vehicular environments (Professor Hyo-il Kim, Electrical and Computer Engineering, UNIST)
15:00~15:20		Global Trends in Automotive & Telco Industry (Kang-rim Choi, Vice President, Connected Car Business Department, KT)
15:20~15:40		ADAS/AD Sensor and System Development Status and Plan (Jae-ho Hwang, Director, DAS Engineering Group, Hyundai MOBIS)
15:40~16:00	Break Time	
16:00~16:20	Smart Mobility related technology 2	Development direction of Future automobile industry (Sung-Keun Kim, Team Leader, Future Technology Strategy Team, Hyundai Motor Group)
16:20~16:40		Security threat and countermeasures in the smart car (Seok-woo Lee, CEO, Penta Security Systems)
16:40~17:00		Automated Vehicle Development Roadmap Concept and Automated Vehicle System Standardization Status in ISO TC204 WG14 (Si-bok Yu, Director, Vehicle Autonomous Technology R&D Center, KATECH)
17:00~17:30	Panel Discussion	Commercialization of autonomous vehicles (Chair: Professor Hee-seung Lee, Graduate School of Creative Design Engineering, UNIST)
17:30~18:00	Closing and Networking	