Welcome by Javier Gozalvez, Universidad Miguel Hernandez de Elche, Spain

Keynote by Prashant Tiwari, Toyota InfoTech Labs, USA
Title: CAV Enabling Mobility Services Opportunities
(Wednesday, 18 Nov. in the mock schedule)

Keynote by Joe LaChapell, Luminar Technologies, USA
Title: Cooperative Perception – Market and System Design Considerations
(Thursday, 19 Nov. in the mock schedule)

Keynote by Richard Yu, Carleton University, Canada
Title: Internet of Intelligence for Connected and Autonomous Vehicles
(Thursday, 19 Nov. in the mock schedule)

Cooperative Driving (Wednesday, 18 Nov. in the mock schedule)

1. Vehicle maneuver-based long-term trajectory prediction at intersection crossings
Richardos Drakoulis, ICCS, Greece; Anastasia Bolovinou, ICCS, Greece; Georgios Drainakis, ICCS, Greece; and Angelos Amditis, ICCS, Greece

2. Simulation Framework for Platooning based on Gazebo and SUMO
Kenan Ahmic, Intelligent Systems Hub, Bosnia and Herzegovina; Anel Tahirbegovic, Intelligent Systems Hub, Bosnia and Herzegovina; Adnan Tahirovic, University of Sarajevo, Bosnia and Herzegovina; Daniel Watzenig, Graz University of Technology, Austria; Georg Stettinger, Virtual Vehicle Research GmbH, Austria
### Sensing (Wednesday, 18 Nov. in the mock schedule)

   Lino Antoni Giefer, University of Bremen, Germany; Razieh Khamsehashari, University of Bremen, Germany; and Kerstin Schill, University of Bremen, Germany

2. **A Methodology to Determine Test Scenarios for Sensor Constellation Evaluations**
   Monish Gogri, Technical University of Graz, Austria; Maike Hartstern, Karlsruhe Institute of Technology, Germany; Wilhelm Stork, Karlsruhe Institute of Technology, Germany; and Thomas Winsel, University of Applied Sciences, Kempten, Germany

3. **Validation and Testing of the Decentralized Architecture for the Occupancy Grid Filtering Pipeline**
   Kenan Softić, VIRTUAL VEHICLE Research GmbH, Graz, Austria; Haris Šikić, VIRTUAL VEHICLE Research GmbH, Graz, Austria; Amar Čivgin, VIRTUAL VEHICLE Research GmbH, Graz, Austria; Georg Stettinger, VIRTUAL VEHICLE Research GmbH, Graz, Austria; and Daniel Watzenig, VIRTUAL VEHICLE Research GmbH, Graz, Austria and Graz University of Technology, Graz, Austria

4. **A Probabilistic Model for Visual Driver Gaze Approximation from Head Pose Estimation**
   Mohsen Shirpour, University of Western Ontario, Canada; Steven Beauchemin, University of Western Ontario, Canada; and Michael Bauer, University of Western Ontario, Canada

### Cooperative Sensing (Wednesday, 18 Nov. in the mock schedule)

1. **Cooperative Road Geometry Estimation via Sharing Processed Camera Data**
   Ahmed Hamdi Sakr, Toyota Motor North America R&D, United States

2. **Bandwidth-Adaptive Feature Sharing for Cooperative LIDAR Object Detection**
   Ehsan Emad Marvasti, University of Central Florida, United States; Arash Raftari, University of Central Florida, United States; Amir Emad Marvasti, University of Central Florida, United States; and Yaser P. Fallah, University of Central Florida, United States

   Samuel Thornton, UC San Diego, United States; and Sujit Dey, UC San Diego, United States

4. **Pose-graph based Crowdsourced Mapping Framework**
   Anweshan Das, Eindhoven University of Technology, Netherlands; Joris IJsselmuiden, Track32, Netherlands; and Gijs Dubbelman, Eindhoven University of Technology, Netherlands
## V2X Networks and Localization (Thursday, 19 Nov. in the mock schedule)

1. **Performance Analysis of Cellular-V2X with Adaptive & Selective Power Control**  
   Md Saifuddin, University of Central Florida, United States; Mahdi Zaman, University of Central Florida, United States; Behrad Toghi, University of Central Florida, United States; Yaser P Fallah, University of Central Florida, United States; and Jayanthi Rao, Ford Motor Company, United States

2. **Sequence Prediction-based Proactive Caching in Vehicular Content Networks**  
   Qiao Wang, University of York, United Kingdom; and David Grace, University of York, United Kingdom

3. **A MEC-assisted Vehicle Platooning Control through Docker Containers**  
   Salvatore Dabbene, Università Mediterranea di Reggio Calabria, Italy; Christopher Lehmann, Technische Universität Dresden, Germany; Claudia Campolo, Università Mediterranea di Reggio Calabria, Italy; Antonella Molinaro, Università Mediterranea di Reggio Calabria, Italy; and Frank H. P. Fitzek, Technische Universität Dresden, Germany

4. **A Context Aware and Traffic Adaptive Privacy Scheme in VANETs**  
   Ikjot Saini, University of Windsor, Canada; Sherif Saad, University of Windsor, Canada; and Arunita Jaekel, University of Windsor, Canada

5. **Cooperative Multi-Modal Localization in Connected and Autonomous Vehicles**  
   Nikos Piperigkos, University of Patras, Greece; Aris S. Lalos, Athena Research Center, Greece; Kostas Berberidis, University of Patras, Greece; and Christos Anagnostopoulos, Athena Research Center, Greece

6. **Location Information Verification in Future Vehicular Networks**  
   Waheeda Jabbar, UNSW, Australia; Robert Malaney, UNSW, Australia; and Shihao Yan, Macquarie University, Sydney, Australia

## Traffic Management (Thursday, 19 Nov. in the mock schedule)

1. **Infrastructure Supported Automated Driving in Transition Areas – a Prototypic Implementation**  
   Julian Schindler, German Aerospace Center (DLR), Germany; Robert Markowski, German Aerospace Center (DLR), Germany; Daniel Wesemeyer, German Aerospace Center (DLR), Germany; Baldomero Coll-Perales, Universidad Miguel Hernandez, Spain; Clarissa Böker, German Aerospace Center (DLR), Germany; and Saifullah Khan, German Aerospace Center (DLR), Germany

2. **CORR: Collaborative On-Road Reputation**  
   Baik Hoh, InfoTech Labs Toyota Motor North America R&D, United States; Seyhan Ucar, InfoTech Labs Toyota Motor North America R&D, United States; Pratham Oza, Virginia Tech, United States; Chinmaya Patnayak, Virginia Tech, United States; and Kentaro Oguchi, InfoTech Labs Toyota Motor North America R&D, United States

3. **Formalizing Traffic Rules for Machine Interpretablility**  
   Klemens Esterle, fortiss GmbH, Germany; Luis Gressenbuch, fortiss GmbH, Germany; and Alois Knoll, Technical University of Munich, Germany

4. **Utility of Traffic Information in Dynamic Routing: Is Sharing Information Always Useful?**  
   Mohammad Shaqfeh, Texas A&M University at Qatar, Qatar; Salah Hessien, McMaster University, Canada; and Erchin Serpedin, Texas A&M University, United States
1. A Maneuver-based Urban Driving Dataset and Model for Cooperative Vehicle Applications
Behrad Toghi, University of Central Florida, United States; Divas Grover, University of Central Florida, United States; Mahdi Razzaghpour, University of Central Florida, United States; Rajat Jain, University of Central Florida, United States; Rodolfo Valiente, University of Central Florida, United States; Mahdi Zaman, University of Central Florida, United States; Ghayoor Shah, University of Central Florida, United States; and Yaser P. Fallah, University of Central Florida, United States

2. Extended H-infinity Filter Adaptation Based on Innovation Sequence for Advanced Ego-Vehicle Motion Estimation
Jasmina Zubaca, Graz University of Technology, Austria; Michael Stolz, Graz University of Technology, Austria; and Daniel Watzenig, Graz University of Technology, Austria

3. Hybrid Model Based Pre-Crash Severity Estimation for Automated Driving
Kilian Schneider, Technische Hochschule Ingolstadt, Germany; Maximilian Inderst, Technische Hochschule Ingolstadt, Germany; and Thomas Brandmeier, Technische Hochschule Ingolstadt, Germany

4. Evaluation of Sensor Tolerances and Inevitability for Pre-Crash Safety Systems in Real Case Scenarios
Robert Lugner, Technische Hochschule Ingolstadt, Germany; Daniel Vriesman, Technische Hochschule Ingolstadt, Germany; Maximilian Inderst, Technische Hochschule Ingolstadt, Germany; Gerald Joy Alphonso Sequeira, Technische Hochschule Ingolstadt, Germany; Niyathipriya Pasupuleti, Technische Hochschule Ingolstadt, Germany; Alessandro Zimmer, Technische Hochschule Ingolstadt, Germany; and Thomas Brandmeier, Technische Hochschule Ingolstadt, Germany

5. Look-ahead Horizon based Energy Optimization for Connected Hybrid Electric Vehicles
Fuguo Xu, Sophia University, Japan; and Tielong Shen, Sophia University, Japan

6. A Data-Driven Minimal Approach for CAN Bus Reverse Engineering
Alessio Buscemi, University of Luxembourg, Luxembourg; German Castignani, University of Luxembourg, Luxembourg; Thomas Engel, University of Luxembourg, Luxembourg; and Ion Turcanu, University of Luxembourg, Luxembourg

7. Prototyping EcoCAR Connected Vehicle Testing System Using DigiCAV Development Platform
Trevor Crain, Argonne National Laboratory, United States; Pawel Jaworski, HORIBA MIRA, United Kingdom; Ioannis Kyriakopoulos, HORIBA MIRA, United Kingdom; Richard Blachford, HORIBA MIRA, United Kingdom; and Brian Fabien, University of Washington, United States

Closing by Javier Gozalvez, Universidad Miguel Hernandez de Elche, Spain