IEEE CAVS 2018 oral presentations will take place in room Boulevard A (2nd floor), and the Poster presentations in Normandie Lounge (2nd Floor).

IEEE CAVS 2018 Schedule:

08:30-10:30 Keynotes
10:30-11:00 Coffee break
11:00-12:30 Oral session 1
12:30-13:30 Lunch (lunch is not provided)
13:30-15:30 Oral session 2
15:30-16:00 Coffee break
16:00-17:45 Poster session

Keynotes (8:30-10:30) – location: Boulevard A

Keynote 1: Dr. Xinzhou Wu, Senior Director of Engineering and Head of ADAS/Autonomous Driving R&D, Qualcomm
Title: Enabling Autonomy in Mass Production Vehicles

Keynote 2: Dr. Ruigang Yang, Head of Robotics and Auto-Driving Lab, Baidu Research
Title: Baidu RAL: From Autonomous Driving to Robotics.

Oral Session 1 (11:00-12:30) – location: Boulevard A

Session Chair: Yaser P. Fallah, University of Central Florida
Concurrent Data Dissemination at Intersections in mmWave for Cooperative Perceptions
Akihito Taya, Takayuki Nishio, Masahiro Morikura, Koji Yamamoto, Kyoto University
On the Feasibility of Integrating mmWave and IEEE 802.11p for V2V Communications
Marco Giordani, Andrea Zanella, University of Padova; Takamasa Higuchi, Onur Altintas, TOYOTA InfoTechnology Center; Michele Zorzi, University of Padova

Field Experiments on Sensor Data Transmission for 5G-based Vehicle-Infrastructure Cooperation
Akihiro Ogawa, Shinsuke Kuroda, Katsunori Ushida, Hidenori Yamashita, Takuji Kantou, Sumitomo Electric Industries, LTD.; Riichi Kudo, Kiichi Tateishi, NTT DOCOMO, INC.

An IEEE 802.11p-assisted LTE-V Scheduling for Reliable Multi-Link V2X Communications
Rafael Molina-Masegosa, Javier Gozalvez, Miguel Sepulcre, Universidad Miguel Hernandez de Elche (UMH)

Kalman filter based spatial prediction of wireless connectivity for autonomous robots and connected vehicles
Ramviyas Parasuraman, Purdue University; Petter Ögren, KTH Royal Institute of Technology; Byung-Cheol Min, Purdue University

Oral Session 2 (13:30-15:30) – location: Boulevard A
Session Chair: Miguel Sepulcre, Universidad Miguel Hernandez de Elche

Centralized Model Predictive CACC Control Robust to Burst Communication Errors
Raj Haresh Patel, Jerome Härri, Christian Bonnet, Eurecom

Decision Making for Connected and Automated Vehicles: A Max-Plus Approach
Mauro Fusco, TNO; Elham Semsar-Kazerooni, ASML; Jeroen C. Zegers, TNO; Jeroen Ploeg, 2getthere, Eindhoven University of Technology

A Driver Behavior Modeling Structure Based on non-Parametric Bayesian Stochastic Hybrid Architecture
Hossein Nourkhiz Mahjoub, Behrad Toghi, Yaser P. Fallah, University of Central Florida

Transitions from Autopilot to Manual Control in Highly Automated Driving: Cognitive Simulations
Woojin Kim, Hyun-Suk Kim, Seung-Jun Lee, Jungsook Kim, Daesub Yoon, Electronics and Telecommunications Research Institute (ETRI)

3D Scan Registration Based Localization for Autonomous Vehicles - A Comparison of NDT and ICP under Realistic Conditions
Su Pang, Daniel Kent, Xi Cai, Daniel Morris, Hayder Radha, Michigan State University

Automated Signal Extraction from Controller Area Networks
Brent C. Nolan, Scott Graham, Barry Mullins, Christine Schubert Kabban, Air Force Institute of Technology

Optimizing a Misinformation and Misbehavior (MIB) Attack Targeting Connected Cars
Bruce DeBruhl, California Polytechnic State University; Patrick Tague, Carnegie Mellon University
Poster Session (16:00-17:45) – location: Normandie Lounge

Session Chair: Javier Gozalvez, Universidad Miguel Hernandez de Elche

Measuring Performance Impact of Battery Swapping on Mobility Behavior
Abhik Banerjee, Vidhya Murali, Vijendran Gopalan Venkoparao, Robert Bosch Engineering and Business Solutions

Real-time air pollution exposure and vehicle emissions estimation using IoT, GNSS measurements and web-based simulation models
L. Thibault, P. Pognant-Gros, G. Sabiron, L. Voise, P. Degeilh, IFP New Energies; K. Thanabalasingam, Infotem

Performance Analysis of Physical-Layer-Based Authentication for Electric Vehicle Dynamic Charging
Terry Guo, Mohamed Mahmoud, Tennessee Tech University

State Estimation for Mitigating Positioning Errors in V2V Networks Employing Dual Beamforming
Nivetha Kanthasamy, Raghvendra V. Cowlagi, Alexander M. Wyglinski, Worcester Polytechnic Institute

Autonomous Vehicle Scheduling At Intersections Based On Production Line Technique
Nasser Aloufi, Amlan Chatterjee, California State University

Toward a Standard-Compliant Implementation for Consensus Algorithms in Vehicular Networks
Elena Cinque, University of L’Aquila; Henk Wymeersch, Christopher Lindberg, Chalmers University of Technology; Marco Pratesi, University of L’Aquila

Identifying DSRC Channel Loss Factors of Urban Intersections using RSS Datasets
S M Osman Gani, Yaser P. Fallah, University of Central Florida; Syed Amaar Ahmad, Savari Inc.

Visual Servoing for Mobile Navigation
Jeffrey Kane Johnson, Maeve Automation

Key management system for private car-sharing scenarios
Ana C. Hernández Gómez, Universitat Rovira i Virgili and Seat; Jordi Castellà-Roca, Alexandre Viejo, Universitat Rovira i Virgili

Measurements and Analysis of DSRC for V2T Safety-Critical Communications
Junsung Choi, Virginia Tech; Vuk Marojevic, Mississippi State University; Carl Dietrich, Virginia Tech

Exploiting the Shape of CAN Data for In-Vehicle Intrusion Detection
Zachariah Tyree, Oak Ridge National Laboratory and Florida Atlantic University; Robert A. Bridges, Frank L. Combs, Michael R. Moore, Oak Ridge National Laboratory