

Title: Traffic Management for Future Mobility – CAVs in a Mixed Traffic Environment

Organizers: Andreas Malikopoulos and Ioannis Papamichail

Invited speakers:

1. **Angelos Amditis**, I-SENSE
2. **Christos Cassandras**, Boston University
3. **Petros Ioannou**, University of Southern California
4. **Karl Johanson**, KTH Royal Institute of Technology
5. **Christos Panayiotou**, University of Cyprus
6. **Markos Papageorgiou**, Technical University of Crete
7. **Claudio Roncoli**, Aalto University
8. **Alexander Skabardonis**, UC Berkeley
9. **Yibing Wang**, Zhejiang University
10. **Dan Work**, Vanderbilt University

Final program:

12:55pm - 1:00pm Welcoming remarks from the organizers

1:00pm - 1:30pm — Claudio Roncoli: "Data-driven Traffic Flow Estimation at Intersections in a Partially Connected Environment"

1:30pm - 2:00pm — Christos Panagiotou : "Traffic Demand Management Using a Reservation Architecture"

2:00pm - 2:30pm — Yibing Wang : "Ego-efficient Lane Changes of Smart Vehicles with Impacts on Traffic Flow"

2:30pm - 3:00pm — Typaldos Panagiotis and Markos Papageorgiou : "Online Road Vehicle Trajectory Specification in Presence of Traffic Lights with Stochastic Switching Times"

3:00pm - 3:15pm — Break

3:15pm - 3:45pm — Angelos Amditis : "Road Infrastructure for Mixed Vehicle Traffic Flows –Integrated and Cooperative AVs"

3:45pm - 4:15pm — Christos Cassandras: "How Many Smart Cars Does it Take to Make a Smart Traffic Network?"

4:15pm - 4:45pm — Dan Work : "Traffic Flow Smoothing at Scale"

4:45pm - 5:15pm — Alex Skabardonis : "Dynamic Lane Grouping at Intersections: Opportunities and Challenges of CAVs in Mixed Traffic"

5:15pm - 5:45pm — Petros Ioannou : "Traffic Flow Control in a Connected Environment"