VEHICULAR 2018

Forward

The Seventh International Conference on Advances in Vehicular Systems, Technologies and Applications (VEHICULAR 2018), held between June 24, 2018 and June 28, 2018 in Venice, Italy, continued a series of events considering the state-of-the-art technologies for information dissemination in vehicle-to-vehicle and vehicle-to-infrastructure and focusing on advances in vehicular systems, technologies and applications.

Mobility brought new dimensions to communication and networking systems, making possible new applications and services in vehicular systems. Wireless networking and communication between vehicles and with infrastructure have specific characteristics from other conventional wireless networking systems and applications (rapidly-changing topology, specific road direction of vehicle movements, etc.). These led to specific constraints and optimizations techniques; for example, power efficiency is not as important for vehicle communications as it is for traditional ad hoc networking. Additionally, vehicle applications demand strict communications performance requirements that are not present in conventional wireless networks. Services can range from time-critical safety services, traffic management, to infotainment and local advertising services. They are introducing critical and subliminal information. Subliminally delivered information, unobtrusive techniques for driver's state detection, and mitigation or regulation interfaces enlarge the spectrum of challenges in vehicular systems.

The conference had the following tracks:

- Fundamentals on communication and networking
- Experiments and challenges
- Security and evaluation
- Unmanned vehicles
- Cooperative Intelligent Transportation Systems (CITS)

We take here the opportunity to warmly thank all the members of the VEHICULAR 2018 technical program committee, as well as all the reviewers. The creation of such a high quality conference program would not have been possible without their involvement. We also kindly thank all the authors who dedicated their time and effort to contribute to VEHICULAR 2018. We truly believe that, thanks to all these efforts, the final conference program consisted of top quality contributions.

We also gratefully thank the members of the VEHICULAR 2018 organizing committee for their help in handling the logistics and for their work that made this professional meeting a success.

We hope that VEHICULAR 2018 was a successful international forum for the exchange of ideas and results between academia and industry and to promote further progress in the field of vehicular systems, technologies and applications. We also hope that Venice, Italy provided a

pleasant environment during the conference and everyone saved some time to enjoy the unique charm of the city.

VEHICULAR 2018 Chairs

VEHICULAR Steering Committee

Markus Ullmann, Federal Office for Information Security / University of Applied Sciences Bonn-Rhine-Sieg, Germany
Carlos T. Calafate, Universitat Politècnica de València
Éric Renault, Institut Mines-Télécom | Télécom SudParis, France
Samy El-Tawab, James Madison University, USA
Khalil El-Khatib, University of Ontario Institute of Technology - Oshawa, Canada
Manabu Tsukada, University of Tokyo, Japan

VEHICULAR Industry/Research Advisory Committee

Clément Zinoune, Renault, France
Michelle Wetterwald, HeNetBot, France
Yi Ding, US Army RDECOM-TARDEC, USA
William Whyte, Security Innovation, USA