Call for Papers

Workshop / Industry Panel
Connected, cooperative and automated road transport
Sponsored by:
IEEE Intelligent Transportation Systems Society
IEEE 5G Initiative

Workshop / Industry Panel Description

The Workshop / Industry Panel "Connected, Cooperative and Automated Road Transport" will be held on October 16, 2017 in Yokohama, Japan, in conjunction with the IEEE Intelligent Transportation Systems Conference (ITSC 2017), which is one of the major annual conferences of the *IEEE Intelligent Transportation Systems (ITS) Society*. The Workshop / Industry Panel will target telecommunication technologies, especially 5G for ITS applications, which is one of the activities of the Working Group Industry Engagement of the *IEEE 5G Initiative*.

Recent developments in telecommunication, sensor and information technologies have enabled substantial progress in the domain of automation of transport. Cooperative driving is technologically achievable today, but is only in a very early stage of deployment. Automated driving is on the horizon, and will still need substantial and longer-term development and testing to make even the high automation levels a reality in complex situations such as in urban environments, and in a transit period of only partial market penetration. Cooperative and automated transport are certainly complementary. They are expected to bring substantial benefits in terms of safety, comfort and (traffic and fuel) efficiency. Many challenges exist in this important domain. The workshop / Industry Panel targets competing communication technologies, e.g. peer to peer (IEEE 802.11p), cellular network, and future 5G. The challenges of ITS applications towards automated driving (especially related to telecommunication) will be highlighted. Industry requirements will be analysed. 5G development status, especially from the perspective of automotive applications, will be updated. Innovation trends and topics for R&D cooperation will be addressed. The workshop is expected to be very interactive. Participants will have an excellent opportunity to discuss with, and to challenge distinguished speakers and panellists from industry.

The Workshop / Industry Panel 2017 welcomes articles in the field of ITS and vehicle technologies dealing with new developments in theory and applications. All accepted papers will be included in the ITSC proceedings. The technical areas include, but are not limited to the following:

- V2X communications
- Hybrid communication
- Automated Vehicles with and without pilot/driver
- 5G research and testing
- Standardisation
- Connected and cooperative systems
- Connected and probe Vehicles

Important Dates (No extensions will be granted)

Paper submission deadline: June 30, 2017 http://edas.info/N23219
Notification of acceptance: July 25, 2017
Final paper submission deadline: August 10, 2017

IEEE ITSS Publications

The IEEE Intelligent Transportation Systems (ITS) Society has three publications: *IEEE Transaction on ITS, IEEE Transaction on Intelligent Vehicles, and ITS Magazine*. Researchers are encouraged to submit their recent research results to the Transactions and the Magazine. Papers will be peer reviewed according to the standards and the review process.

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Moderator
Tim Leinmüller, Denso, Germany

Speakers/Panellists
OEMs, Standardisation organisation, telecom companies, supplier, ICT infrastructure (service) provider, academia

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