



Call for Papers

IEEE 2018 Intelligent Vehicles Symposium Workshop Communication for Connected and Cooperative Driving

June 26 - June 30, Changshu, Jiangsu, China

Scope:

This workshop is dedicated to the requirements, recent advances and prospective work in communication technologies aiming to make cooperative driving possible. Nowadays intelligent vehicles sense their neighboring environment exclusively with onboard sensors. Due to intrinsic (range) or external (obstruction by static or dynamic obstacles) limitations, the area and the accuracy of this sensing are limited. The exchange of locally sensed information between several communicating nodes (i.e. vehicles, infrastructure) can help to overcome temporary blindness or extend the perception area.

However, candidate communication technologies (Cellular (4G, 5G), WiFi, etc.) have to be adapted to the use cases of cooperative driving and intelligent transportation systems.

The goal of this workshop is to gather and discuss scientific work about communication technologies suited for V2X communication in the constrained area of cooperative collaborating vehicles. Also, security issues which come up with the online connectivity of vehicles, shall be discussed.

Topics of interests (non-exhaustive):

- 4G, 5G, Wifi, Light-based V2X communication for cooperative driving
- Use case definitions for intelligent vehicles
- Security issues in communication for cooperative driving
- V2X communication performance test and evaluation (packet loss, latency, drop out, etc.)

Important Dates:

Papers submission: January 31th, 2018

Notification of acceptance: March 31st, 2018

Camera-ready version due: April 8th, 2018

Conference days: June 26 - July 1, 2018

Paper Submission:

Prospective authors are required to submit their manuscripts electrically through the conference Papercept submission system (<https://its.papercept.net>) and with the code 27iv2 for the workshop. All papers will go through the review process. Accepted papers will be included in the conference proceedings as workshop papers and will be indexed in the IEEE Xplore Digital Library. Submitted papers shall not exceed six pages as a pdf file in IEEE two column format. See more detailed information at the conference website (<http://www.2018iv.org/>) to prepare your paper.

Organizers:

Dr. Benoit HILT, Université de Haute-Alsace (Mulhouse), benoit.hilt@uha.fr

Dr. Frédéric DROUHIN, Université de Haute-Alsace (Mulhouse), frederic.drouhin@uha.fr

Dr. Sébastien BINDEL, Université de Haute-Alsace (Mulhouse), sebastien.bindel@uha.fr

Pr Jean-Philippe LAUFFENBURGER, Université de Haute-Alsace (Mulhouse), jean-philippe.lauffenburger@uha.fr

Pr Axel SIKORA, Hochschule Offenburg, axel.sikora@hs-offenburg.de