



2018 IEEE Intelligent Vehicles Symposium (IV'18)
Changshu, Jiangsu, China, June 26 - June 30, 2018

Call for papers

“Connected and Automated Vehicles” Workshop (Code: s422g)

Connected and automated vehicles (CAVs) have the ability of gathering and sharing traffic information and vehicle state with neighboring vehicles. Therefore, CAVs are believed to be a promising technology to deliver greater safety and mobility benefits to the next generation intelligent transportation systems. In particular, CAVs can also bring new perspectives and innovation to autonomous driving and cooperative driving to achieve more comfortable driving experience, realize accurate traffic control and reduce adverse environmental effects. CAVs can be made smarter via the use of advanced technologies such as machine learning, deep reinforcement learning, artificial intelligence, advanced computing, among many others.

This workshop aims to gather researchers in the areas of connected and automated vehicles, hybrid electric vehicles, vehicular cyber-physical systems, and intelligent transportation systems, motion planning and control, path tracking, deep reinforcement learning for autonomous control and decision-making in a same room and discuss their recent research advances in theory and applications.

The topics of interest include but are not limited to:

- ◆ Cooperative control of vehicles
- ◆ Vehicular cyber-physical systems
- ◆ Autonomous driving under limit working conditions
- ◆ Driving assistance under low adhesion ground
- ◆ Trajectory tracking control for electric vehicle
- ◆ Deep reinforcement learning for intelligent/autonomous vehicles
- ◆ Autonomous decision-making for intelligent/autonomous vehicles
- ◆ Motion planning of intelligent/autonomous vehicles
- ◆ Path tracking and motion control for intelligent/autonomous vehicles

Workshop Organizers:

Ge Guo, Dalian Maritime University, China (geguo@yeah.net)
Shengbo Eben Li, Tsinghua University, China (lisb04@gmail.com)
Yantao Tian, Jilin University, China (tianyt@jlu.edu.cn)
Hongbo Gao, Tsinghua University, China (ggb48@mail.tsinghua.cn)

How and when to submit papers

The workshop papers should be submitted by **Jan 31, 2017**, via the conference Papercept management system (<http://its.papercept.net>). Note that the authors need to use the workshop code “**s422g**” to direct the paper to “**Connected and Automated Vehicles**” workshop. Also, please choose in the conference management system the 2018 IEEE Intelligent Vehicles Symposium.

Note that workshop paper is limited to a total of six pages including references. A maximum of two supplementary pages is permitted at an extra charge. Further, due to space constraints on the proceedings of the conference, all papers are limited to 2 MB in size and should preferably be less than 500 kB.