



The 2018 IEEE Intelligent Vehicles Symposium (IV'18)

Changshu, Suzhou, China

June 26 - June 30, 2018

IV'18 Special Session

Robotic and AI Solutions for Smart Mobility

Session Organizer:

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Session Code:

pkijg

Scope and Topics:

Current advancement in driverless cars, robotics, and artificial intelligence (AI) are some of the main drivers for smart mobility solutions that enable safe and efficient transportation, vehicle sharing, and reduced road congestions. Challenges include achieving full driving autonomy, integration of city infrastructure, vehicle on-board, and web resources in a unified transportation ecosystem, optimal use of all modes of travel, coverage of the first and last mile, and efficient automated delivery of goods in densely populated area. Regardless of the broad and diverse impact and applications aspects of smart mobility, their fundamentals are based on similar principles that are driven by the modern AI and robotic methods and techniques.

The goal of this special session is to provide a platform for sharing innovative approaches to solve challenging mobility problems and to apply the lessons learned to

different domains that can stimulate further research and development of related methods, algorithms, and tools.

Focus areas include advanced robotic and AI methods for perception, localization, motion planning, motion management and decision making, with applications to autonomous vehicles, delivery robots, personal mobility device, delivery drones, and the other transportation modalities of the broad field of smart mobility.

Important Dates:

Papers submission: Feb. 14, 2018

Notification of acceptance/rejection: March 31, 2018

Camera-ready version due: April 8, 2018

Conference days: June 26th - 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 special session code “pkijg” for the special session. 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. Please address your further questions to the organizers.