

# CALL FOR PAPERS

Modern intelligent transportation systems (ITS) are strictly related to the use of various types of sensors to allow gathering information about the parameters of vehicles and their motion. Rapid development of video technology and availability of relatively cheap high resolution cameras cause the increased interest in the use of vision sensors mounted inside vehicles as well as over the roads. Another relevant field of research is related to applications of various passive road sensors mounted in the road as well as traffic sensors such as piezoelectric or magnetic MEMS sensors. One of the most relevant recent challenges and trends in the ITS solutions is related to the fusion of data acquired by various types of sensors, including inertial sensors, GPS solutions, and model based estimators, which can be used as the data sources for connected vehicle technologies.

The purpose of this special issue is to bring together the ideas and recent achievements of various research groups specializing in various aspects of the ITS solutions. Articles presenting the newly developed methods and ideas combining the data obtained from various sensors, including cameras, are especially welcome.

Potential topics include but are not limited to the following:

- ▶ Autonomous vehicle technologies
- ▶ Sensors in intelligent vehicles and self-driving cars
- ▶ Wireless sensor networks and communication in ITS and connected vehicles
- ▶ Vision sensors and image analysis for ITS solutions
- ▶ Video tracking of vehicles
- ▶ Traffic sensors (piezoelectric, fiber optic, magnetic, etc.)
- ▶ Passive sensors for road condition monitoring
- ▶ Weight-in-motion technologies
- ▶ Detection, classification, and recognition of vehicles in motion
- ▶ Data fusion methods for various types of sensors

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Papers are published upon acceptance, regardless of the Special Issue publication date.

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**Submission Deadline**

Friday, 10 August 2018

**Publication Date**

December 2018