Special Issue

Deep Learning Based Sensing Technologies for Autonomous Vehicles

Message from the Guest Editors

This Special Issue is focused on such sensing technologies for autonomous vehicles and robots with an emphasis on deep learning based sensing algorithms. The topics of interest include, but not limited to:

- Deep learning based perception algorithms for autonomous vehicles and robots
- Deep learning based sensor fusion for multimodal sensors
- Sensing algorithms for intention learning, situation awareness, and risk assessment
- Emerging sensor technologies for autonomous vehicles and robots
- Bayesian algorithms and Gaussian process regression for sensor fusion
- V2V/V2X technologies for inter-vehicle sensor fusion
- Deep learning based end-to-end control for autonomous vehicles and robots

Keywords

- Deep Learning
- Machine perception
- Sensor fusion
- Robotics
- Autonomous vehicles

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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