Special Issue

Machine Learning and Embedded Computing in Advanced Driver Assistance Systems (ADAS) , Volume II

Message from the Guest Editors

This Special Issue aims to cover the most recent advances in autonomous and automated vehicles of all kinds (commercial, industrial) including their interaction with other vehicles, road users or infrastructure. Novel theoretical approaches or practical applications of all aspects of ADAS systems are welcomed. Reviews and surveys of the state-of-the-art are also welcomed. Topics of interest to this Special Issue include, but are not limited to, the following topics:

- Deep learning and machine learning in ADAS systems
- Intelligent navigation and localization
- Scene understanding (e.g., driver intent, pedestrian intent, etc.)
- Obstacle detection, classification, and avoidance
- Pedestrian and bicyclist detection, classification, and avoidance
- Vehicle detection and avoidance
- Animal detection, classification, and avoidance
- Road traffic sign detection and classification
- Autonomous parking
- Multi-sensor data processing and data fusion
- Collision avoidance algorithms
- Actuation systems for autonomous vehicles
- Vehicle-to-vehicle and vehicle-to-infrastructure communication
- Advanced vehicle control systems
- Computing platforms and running complex ADAS software in real-time

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Deadline for manuscript submissions

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