Special Issue

Integration of Sensor Technologies and Artificial Intelligence Strategies for Autonomous Vehicles and Intelligent Transportation Systems

Message from the Guest Editor

The integration of sensor technologies with artificial intelligence (AI) strategies is revolutionizing autonomous vehicles (AVs) and intelligent transportation systems (ITSs). This Special Issue explores the latest advances in AI techniques, such as machine learning and embedded computer vision, to optimize performance in environments with resource-constrained hardware and limited computing capacity. These innovations aim to enhance safety, efficiency, and decision making in real-time scenarios, paving the way for smarter, more autonomous mobility solutions. The topic of this Special Issue aligns with the scope of the journal *Sensors* (MDPI) by focusing on advanced sensor systems and their integration with AI for real-time data processing and decision making. It addresses key themes of the journal, such as sensor fusion, machine learning, and embedded systems, emphasizing efficient, real-world applications in autonomous vehicles and transportation networks, particularly in resource-constrained environments. This makes it highly relevant to *Sensors'* focus on innovative sensor technologies and their practical uses.

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Message from the Editor-in-Chief

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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