Special Issue

Data-Driven Methods for Smart and Adaptive Sensor Systems

Message from the Guest Editor

Recent advances in sensing technologies have led to an unprecedented growth in the volume, variety and velocity of sensor data generated across diverse application domains, including smart cities, healthcare, environmental monitoring, industrial automation and cyber–physical systems. Traditional model-based and rule-driven approaches are increasingly insufficient to handle the complexity, heterogeneity and dynamic nature of modern sensor systems. As a result, **data-driven methods**, particularly those based on **artificial intelligence and machine learning**, have emerged as key enablers for building **smart, adaptive and autonomous sensor systems**. This Special Issue aims to provide a comprehensive forum for novel research on **data-driven techniques for sensor data acquisition, processing, interpretation and decision-making**.

Guest Editor

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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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