

Special Issue

Smart Infrastructure: Sensing, Monitoring and Data-Driven Insights

Message from the Guest Editors

The Special Issue "Smart Infrastructure: Sensing, Monitoring and Data-Driven Insights" aims to showcase the latest advancements in sensor technology and data analytics for the development of smart infrastructure. With the growing need for more resilient, efficient, and sustainable infrastructure systems, sensors play a critical role in real-time monitoring, data collection, and analysis. This Special Issue will explore how modern sensing technologies, combined with data-driven insights, enable proactive maintenance, improved safety, and enhanced operational efficiency of infrastructure assets, such as bridges, roads, and buildings. This Special Issue invites contributions on novel sensor designs, monitoring systems, and data-driven techniques applied to infrastructure, particularly focusing on how integrated sensor networks provide actionable insights for predictive maintenance, structural health monitoring, and long-term infrastructure planning. It encourages cross-disciplinary research bridging civil engineering, data science, and IoT innovations.

Guest Editors

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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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