

Special Issue

Remote Sensing for Infrastructure Health Monitoring: Advancements in Sensors and Analysis

Message from the Guest Editors

We aim to explore advancements in sensors and analysis techniques in infrastructure health monitoring. We welcome submission topics that encompass, but not limited to:

- The implementation of sensor networks for real-time monitoring of structural health parameters;
- The development of AI algorithms for predictive maintenance, leveraging sensor data to detect and forecast potential infrastructure failures;
- The integration of IoT devices to enable remote monitoring and management of critical infrastructure assets;
- The exploration of edge computing solutions to process sensor data locally and reduce latency in decision-making;
- The application of machine learning techniques for anomaly detection and fault diagnosis in infrastructure systems;
- The utilization of advanced image processing algorithms for visual inspection of infrastructure components using drones or cameras;
- The investigation of wireless sensor networks for distributed monitoring of large-scale infrastructure networks;
- Research into multi-modal data fusion techniques to combine information from various sensors and sources for comprehensive infrastructure health assessment.

Guest Editors

Dr. Guangwei Yang

Dr. Guangyang Hou

Dr. Hang Zeng

Dr. Guolong Wang

Deadline for manuscript submissions

30 November 2026



Infrastructures

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CiteScore 6.0



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Infrastructures
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
infrastructures@mdpi.com

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Editor-in-Chief

Dr. Pedro Arias-Sánchez

Applied Geotechnologies Group, Department of Natural Resources and Environmental Engineering, School of Mining Engineering, University of Vigo, 36310 Vigo, Spain

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