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Smart Sensor Networks for Civil Infrastructure Monitoring

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Message from the Guest Editors

Civil infrastructures that make up urban and rural communities, such as bridges, buildings, roads, railways, dams and levees, ports, transmission towers, etc., serve under continuous operational and environmental stresses and, sometimes, extreme hazardous loads, leading to deterioration and damage. Smart sensor networks play a critical role in monitoring the civil infrastructures through intelligent sensing, processing and data transmission to support essential decision makings aimed at detection, diagnosis and prognosis of infrastructure health conditions.

The objective of this Special Issue is to generate discussions on the latest advances in smart sensor networks for civil infrastructure health monitoring, algorithm development and applications. Topics of interest include, but are not limited to:

- Novel-sensor-empowered sensor networks
- Intelligent networking and operations
- Signal processing and algorithms for damage diagnosis and health prognosis
- Smart SHM system integration
- Control-oriented smart sensor networks
- Adaptive sampling and interrogation
- Integration of sensor network data within digital twins
- Dense sensor networks
- Field demonstration and applications



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Special Issue



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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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