



Internet of Things for Structural Health Monitoring

Guest Editors:

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Deadline for manuscript
submissions:

closed (31 August 2020)

Message from the Guest Editors

The Internet of Things (IoT) is emerging as an important technology for monitoring systems, and it is crucial in the framework of structural health monitoring for modern and ancient structures (new and cultural heritage buildings, bridges, roads, dikes, walls, monuments, and so on). This Special Issue aims to highlight advances in the open research topics in this field, which include, but are not limited to, the following:

1. IoT-based distributed data acquisition systems for structural health monitoring;
2. Development, modeling, testing, and metrological characterization of sensors, smart measurement instruments, and smart objects for non-invasive or semi-invasive structure monitoring;
3. Compressive sensing;
4. Communication network design and optimization;
5. Energy saving and energy harvesting methods and techniques;
6. Synchronization methods and techniques for signals and data acquisition systems;
7. Data collection and management methods (big data and data retrieval);
8. Automatic classifiers for danger detection, alarm generation, automatic scheduling of inspections, and maintenance activities;
9. New numerical models describing the structural behavior of buildings and structures.





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Message from the Editor-in-Chief

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