



Special Issue on
**Wireless Sensor Networks for Structural Health
Monitoring**

CALL FOR PAPERS

Structural health monitoring is an innovative method of monitoring structural safety, integrity, and performance without otherwise affecting the structure itself. Structural health monitoring utilizes wireless sensor networks (WSNs) to detect the presence, location, severity, and consequence of damage. In many monitoring allocations, the conventional usages of WSNs are cases with low data rate, small data size, low duty cycle, and low power consumption. However, structural health monitoring requires high data rate, large data size, and a relatively high duty cycle. The scope of this special issue is in line with recent WSN for structural health monitoring.

Potential topics include, but are not limited to:

- ▶ Architecture of WSNs in structural health monitoring
- ▶ Theory and technology of WSNs for structural health monitoring
- ▶ Technologies for data processing of WSNs in structural health monitoring
- ▶ Technologies for reliability of WSNs in structural health monitoring
- ▶ Technologies for power management of WSNs in structural health monitoring
- ▶ Security, privacy, and system integrity of WSNs in structural health monitoring
- ▶ New applications of WSNs in structural health monitoring
- ▶ WSN platform for structural health monitoring
- ▶ Experience and case study on WSN for structural health monitoring
- ▶ Demos and prototype testing

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