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Structural Health Monitoring: Advanced Sensing, Diagnostics and Prognostics

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submissions:

closed (31 March 2024)

Message from the Guest Editors

Over recent decades, the field of Structural Health Monitoring (SHM) has been experiencing spectacular development. The applications have expanded from aerospace, mechanical, and civil engineering, now to essentially all other types of fundamental issues, including those in the nuclear, marine, and wind turbine industries. In view of this highly active research area at present, we are pleased to invite researchers to contribute original research papers, as well as review papers related to all aspects of advanced sensing, fault diagnostics, intelligence algorithms, and prognostics-based health monitoring and management. Topics include, but are not limited to, the following:

- Structural health monitoring (SHM);
- Non-destructive testing (NDT);
- Prognosis and health management (PHM);
- Self-diagnostics, prognostics, condition-based maintenance; and performance;
- Vibration and wave propagation methods for damage assessment;
- Feature extraction and signal processing of measured data;
- Damage identification based on artificially structured materials;
- Measuring techniques for condition monitoring;
- RUL prediction method based on intelligent algorithms.



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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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