Special Issue

Sensing and Signal Processing in Nondestructive Evaluation

Message from the Guest Editors

Nondestructive evaluation is defined as testing and analysis techniques to detect flaws and imperfections in materials, components, structures or systems to ensure structural integrity. The acquired data in combination with advanced sensing and signal processing techniques can provide monitoring, inspection, damage assessment and maintenance actions upon demand. In this respect, the Special Issue would focus the attention on all the opportunities for nondestructive evaluation. The Special Issue hence focuses on recent developments in theoretical, computational, experimental and practical aspects in the field. Topics include, but are not limited to, the following:

- Damage Detection and Assessment
- Damage Modelling
- Innovative Sensing Solutions
- Modal Analysis
- Model Verification and Validation
- Modeling and Simulation
- Non-contact Dynamics Measurement
- Nondestructive Testing and Evaluation
- Non-linear Guided Waves
- Real-world Applications
- Sensors and Actuators

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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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