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Smart Sensors and Physics-Based Machine Learning for Structural Health Monitoring II

Guest Editor:

Dr. Enrique García-Macías

Department of Structural
Mechanics and Hydraulic
Engineering, University of
Granada, 18001 Granada, Spain

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Message from the Guest Editor

Dear Colleagues,

Recent advances in Smart Sensor Systems and Artificial Intelligence (AI) have opened vast possibilities for the development of disruptive innovations in the field of Structural Health Monitoring (SHM). In their broadest sense, smart sensors are designed to mitigate operating and efficiency limitations related to traditional monitoring solutions. These may range from sensors incorporating on-board microprocessing and state interrogation, sparse and dense sensor networks capable of detecting local and global pathologies, to novel composite materials with self-diagnostic properties. In addition, the increasingly frequent implementation of AI algorithms in the realm of SHM is enabling unprecedented possibilities to link monitoring signals to decision-making. Particularly promising are physics-based AI applications, enabling the injection of engineering knowledge and expertise into decision-making steps. In this light, the aim of this Special Issue is to generate discussions on the latest advances in research on smart sensing technologies and physics-based AI for SHM.

For detailed information, please visit [here](#).

Dr. Enrique García Macías
Guest Editor



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Special Issue



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Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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