



Sensing and Data Elaboration in Structural Health Monitoring Technology

Guest Editors:

Dr. Monica Ciminello

Adaptive Structures Division, The Italian Aerospace Research Centre (CIRA), 81043 Capua, Italy

Dr. Ignazio Dimino

Adaptive Structures Tech Research Unit, CIRA, The Italian Aerospace Research Centre, 81043 Capua, CE, Italy

Dr. Antonio Concilio

Department of Adaptive Structures, Centro Italiano Ricerche Aerospaziali, 81043 Capua, CE, Italy

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Message from the Guest Editors

Dear Colleagues,

Nowadays, sensing technology is increasingly being investigated for health monitoring purposes, ranging from aerospace to civil structures applications. A proper selection of sensors (from fibres to pzt or graphene-based, etc.) and an optimal definition of network layout can affect the observability of the target structures significantly, therefore impacting the monitoring process sensitivity, accuracy, and reliability of results.

Sensors can be bonded to or embedded within the reference system, providing data for real-time elaboration from manufacturing, assembly, verification tests, and operation. Suitable algorithms can make data processing smart by appropriate filtering and clustering.

This Special Issue aims to put together original research and review articles on SHM applications that address industrial requirements including new technologies, solutions, applications, and new challenges in the field of SHM systems.

Keywords

- sensor technology;
- sensors integration;
- network layout optimization;
- qualification and certification;
- real-time data processing;
- damage detection analysis





sensors



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Editor-in-Chief

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
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