



## Advanced Methodologies and Technologies in Structural Monitoring

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submissions:

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### Message from the Guest Editor

Dear Colleagues,

The Special Issue “Advanced Methodologies and Technologies in Structural Monitoring” aims to collect the last findings in SHM. Both methodologies and technological advancements are welcome, as well as specific laboratory or in situ experimental studies or validations. Contributions can focus from the scale of material modelling to the structural one.

The topics of applications will include (but not be limited to):

- Damage Detection
- Modelling of Damages, Fractures, Defects and Cracks
- Dynamic Identification
- Inverse Problems in Structural Engineering
- Model Updating
- Machine learning in SHM
- Sensor Network, Optimal Sensor Placement and Instrumentation Design
- Sensor Technologies
- Remote Monitoring

Dr. Egidio Lofrano

*Guest Editor*





## Editor-in-Chief

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## Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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