

Special Issue

Advanced Sensing Technologies and Smart Construction Materials for Structural Health Monitoring

Message from the Guest Editors

- This Special Issue aims to showcase cutting-edge research and innovative applications that leverage advanced sensing technologies and smart materials for the SHM of critical infrastructure.
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- The scope of this Special Issue includes, but is not limited to, novel sensors, self-sensing and self-healing materials, IoT-based sensing solutions, and satellite radar interferometry approaches.
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- We are particularly interested in contributions that address the integration of sensor data with AI-driven SHM strategies and digital twins for damage detection, as well as the challenges associated with the real-world application and large-scale deployment of innovative sensing technologies.
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- By bridging material science, sensing technology, and digital innovation, this Special Issue seeks to foster interdisciplinary solutions that enhance structural monitoring, optimize maintenance strategies, and improve sustainability in the era of smart cities.

Guest Editors

Dr. Andrea Meoni

Department of Civil and Environmental Engineering, University of Perugia, Via G. Duranti 93, 06125 Perugia, Italy

Prof. Dr. Gustavo Henrique Nalon

Department of Applied and Computational Mechanics, Federal University of Juiz de Fora, Juiz de Fora 36036-330, MG, Brazil

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
infrastructures@mdpi.com

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Editor-in-Chief

Dr. Pedro Arias-Sánchez

Applied Geotechnologies Group, Department of Natural Resources and Environmental Engineering, School of Mining Engineering, University of Vigo, 36310 Vigo, Spain

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