

## Special Issue

# Intelligent IoT and Multimodal Sensor Networks for Structural and Environmental Monitoring

### Message from the Guest Editors

The rapid evolution of Internet of Things (IoT) technologies, multimodal sensor networks, and artificial intelligence is transforming the way structural assets, critical infrastructures, and natural environments are monitored and managed. Modern monitoring systems increasingly rely on heterogeneous sensing devices, edge computing, wireless communication, digital twins, and data-driven intelligence to provide continuous, reliable, and real-time assessment of structural integrity, environmental conditions, and infrastructure resilience. At the same time, emerging technologies such as digital twins, cloud-edge architectures, autonomous sensing platforms, and cyber-physical systems are enabling new research directions for smart cities, transportation systems, cultural heritage preservation, industrial facilities, and environmental protection. This Special Issue aims to collect high-quality original research and review papers addressing recent advances in intelligent IoT-based monitoring systems for structural and environmental applications.

### Guest Editors

Prof. Dr. Francesco Colace  
Dr. Domenico Santaniello  
Dr. Angelo Lorusso

### Deadline for manuscript submissions

10 January 2027



## Applied Sciences

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### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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