

Special Issue

Advanced Monitoring of Smart Critical Infrastructures

Message from the Guest Editors

By combining insights from various disciplines, this Special Issue aims to advance the field of smart infrastructure monitoring, fostering the development of systems that enhance the safety, sustainability, and resilience of critical assets globally. Through this collaborative exchange, we expect to uncover new methodologies and technologies that can transform the current practices in critical infrastructure management. The following targeted topics include, but are not limited to, the following:

- IoT-based sensing technologies for real-time SHM.
- Data fusion and machine learning models for lifespan prediction of infrastructures.
- Predictive analytics for infrastructure longevity
- Advanced communication protocols enhancing IoT scalability and security in CI applications.
- Enhanced communication protocols for secure data spaces.
- Multi-domain security systems for resilient infrastructure monitoring.

Guest Editors

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Dr. Giovanni Paragliola

Dr. Carmelo Mineo

Deadline for manuscript submissions

closed (15 July 2025)



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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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