

Special Issue

Artificial Intelligence and Sensing Technologies for Structural Health Monitoring Systems

Message from the Guest Editor

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- AI-enabled and adaptive sensor data analysis;
- Reinforcement learning for predictive maintenance;
- Blockchain for data integrity;
- Real-time structural digital twins and the Internet of Things (IoT);
- Robotics in structural inspection;
- Biometric and behavioral monitoring in structures;
- Bio-inspired sensing;
- Metamaterial sensing;
- Distributed fiber optic sensing;
- Image sensing;
- Remote sensing with satellite technologies;
- Damage detection, classification, and localization;
- Crack monitoring;
- Optimal sensor placement;
- Cyber-physical security;
- Edge computing;
- Augmented reality;
- Generative adversarial networks (GANs);
- Sensor data fusion;
- Explainable AI;
- Natural language processing

Guest Editor

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Deadline for manuscript submissions

closed (15 December 2024)



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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.

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