

Special Issue

Structural Health Monitoring in Bridge Engineering

Message from the Guest Editors

As bridges worldwide age and become more complex, the need for effective Structural Health Monitoring (SHM) tools has never been more urgent. SHM systems can provide real-time assessments, early detection of potential problems, and proactive maintenance strategies to prevent catastrophic failures. Recent advancements in artificial intelligence and big data have significantly accelerated the development of SHM techniques for critical civil structures and infrastructure, such as bridges and viaducts. This Special Issue brings together the latest research, findings, and practical applications in the field of SHM for bridge structures. Contributions should focus on innovative approaches that enhance the reliability, efficiency, and cost-effectiveness of bridge health assessment and management. Authors are invited to submit original research papers, review articles, or technical notes on SHM of bridges. This Special Issue aims to foster collaborations and knowledge exchange in bridge engineering to address critical SHM challenges.

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