

Special Issue

Smart Sensors for Structural Health Monitoring and Nondestructive Testing on Transportation Infrastructures

Message from the Guest Editors

As transportation infrastructures age and face increasing demands, ensuring their safety and resilience becomes paramount. Traditional inspection and evaluation methods, while effective, often require time-consuming and costly procedures. In recent years, the integration of smart sensors into Structural Health Monitoring (SHM) and Non-destructive Testing (NDT) processes has revolutionized how we assess and maintain transportation systems. These advanced sensors enable real-time monitoring, predictive maintenance, and rapid response to structural issues, enhancing the longevity and safety of critical infrastructure. This Special Issue aims to highlight the latest innovations in smart sensor technologies and their applications in transportation infrastructures. It will cover the development of cutting-edge sensor systems, advancements in data analytics, and real-world case studies that demonstrate the effectiveness of these technologies in monitoring and maintaining infrastructure. By gathering contributions from researchers and practitioners, this Special Issue will provide valuable insights into the future of SHM and NDT in the transportation sector.

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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