Special Issue

Advancements in Nondestructive Evaluation (NDE) Methods for Structural Health Monitoring of Civil Infrastructure

Message from the Guest Editors

This Special Issue aims to bring together innovative research and practical advancements in the field of **Nondestructive Evaluation (NDE) and Testing (NDT)** as applied to the **Structural Health Monitoring (SHM)** of infrastructure and structural materials. The Special Issue will focus on emerging technologies, methodologies, and applications of NDE and NDT techniques that support the assessment, maintenance, and life cycle management of structures such as bridges, buildings, pavements, dams, tunnels, and offshore platforms. We welcome original research articles, case studies, and review papers that address the integration of NDE/NDT tools into SHM frameworks, the development of new sensing technologies, the use of artificial intelligence and machine learning in data interpretation, and the validation of NDE-based SHM approaches through experimental or field investigations. This Special Issue aims to serve as a valuable resource for researchers, practitioners, infrastructure managers, and policy-makers engaged in structural diagnostics, asset management, and predictive maintenance.

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Deadline for manuscript submissions

31 December 2025

CivilEng

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 4.0

mdpi.com/si/246545

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Message from the Editor-in-Chief

The journal is devoted to academic researchers, working in the main fields of civil engineering, who want to spread their findings in the scientific community. Topics include: solid mechanics, structural and earthquake engineering, environmental and geotechnical engineering, survey and geo-spatial engineering, coastal and harbor engineering, building physics and sustainable materials, municipal or urban engineering, engineering and economy, and construction engineering. Contributions which are a good mixture of rigorous theoretical principles and experience-based technical solutions are especially welcome. Purely numerical or experimental approaches are also accepted, provided they are accompanied by a strong speculative investigation, finalized to extract a physical interpretation, and useful for enlarging the general knowledge of the problem.

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