

## Special Issue

# Sustainable Structural Health Monitoring in Civil Engineering

### Message from the Guest Editors

With the rapid acceleration of global urbanization and the aging of infrastructure, structural health monitoring (SHM) for civil engineering structures has become a critical component in ensuring public safety and promoting sustainable development. SHM technology enables the real-time monitoring and performance evaluation of civil engineering structures, effectively preventing disasters, extending service life, and reducing maintenance costs. However, in practical applications, traditional SHM systems face challenges such as high energy consumption, complex data processing, and limited economic viability. As a result, the integration of sustainability concepts into structural health monitoring has emerged as a key area of research and an inevitable trend for future development. This Special Issue invites contributions that address both the challenges and opportunities in sustainable SHM. Topics of interest include the following:

- Sustainable sensing technologies
- Data-driven sustainability design
- Life cycle management and assessment of civil structures
- AI-driven structural health monitoring
- Structural damage assessment
- Case studies and practical applications

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### Guest Editors

Prof. Dr. Shengli Li

Dr. Yanqi Wu

Dr. Jie Hou

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### Deadline for manuscript submissions

30 June 2026



## Sustainability

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### Editor-in-Chief

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