

## Special Issue

# Sensor-Based Structural Health Monitoring of Civil Infrastructure

### Message from the Guest Editor

Civil infrastructure, including bridges, buildings, tunnels, power plants, and dams, plays a crucial role in our lives. It is essential to properly maintain and monitor these structures to accurately assess their age, usability, and identify potential concerns. In recent years, the research community has shown a growing interest in developing effective methods for structural health monitoring (SHM). A typical SHM system consists of a network of sensors that measure various parameters related to the structure's condition and its surrounding environment, such as temperature, stress, delamination, strain, vibration, and humidity. To ensure reliable in situ structural health monitoring, it is crucial to have accurate, durable, responsive, and long-lasting sensors. Although numerous sensor types have been developed and demonstrated, there is an increasing need for innovative, high-performance in situ sensors. We extend an invitation to researchers to submit original research articles and review articles that will contribute to the advancement of sensor technologies for structural health monitoring (SHM).

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### Guest Editor

Prof. Dr. Bin Xu  
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### Deadline for manuscript submissions

closed (31 January 2026)



## Sensors

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### Editor-in-Chief

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