



## Advanced Health Monitoring Technologies for Steel and Concrete Structures

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### Message from the Guest Editors

Health monitoring of full-scale civil infrastructures is important because it can provide operators with information on gradual or sudden changes in the status of the structure. The development of health monitoring technology for steel and concrete structures has grown considerably due to significant advances in microchip manufacturing, wireless communications, sensors, signal analysis, and artificial intelligence. Structural health monitoring usually requires the deployment of different types of sensors at appropriate structural locations to collect long-term monitoring data. The results of data processing and structural mechanical behavior analysis can be used to evaluate whether the structure has deteriorated. The health monitoring of full-scale civil infrastructures still faces many challenges, such as changes in environmental conditions, improvement of monitoring systems and signal quality, efficient processing of big data, analysis of complex load conditions, and progress of system identification and numerical methods.





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## Message from the Editor-in-Chief

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