Special Issue

Advancements in Sensing Technologies for Structural Health Monitoring and Digital Twinning

Message from the Guest Editor

In structural health monitoring applications, sensing technology plays a crucial role, particularly in digital twinning for highly complex structures. In this special issue, we aim to explore the latest developments in sensing technologies, such as high-speed, high-resolution, non-contact, and wireless techniques (e.g. RFID quantifiable sensors), which can be applied to sense the online responses of the structure of interest. Subjects of studies relevant to sensor performance, sensor data communication, sensor placement, and selection are welcome. Data assimilation from sensor models of the structure to make informed decisions is also encouraged. The integration of sensor fusion and reduced-order modelling for the purpose of online digital twinning and decision-making is also a key focus.

Guest Editor

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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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