Topical Collection

Vision Sensors and Systems in Structural Health Monitoring

Message from the Collection Editors

In recent years, the growth in structural health monitoring (SHM) and non-destructive testing and evaluation (NDTE) technology has been acknowlaged. Most solutions available in the market today make use of contact-based sensors. However, this approach is limited. Available methods produce results at only a discrete number of points, are expensive, and interfere with the structural response of tested objects. To address all the limitations of current technology, the research community has been actively exploring non-contact measurement methods. Recent advances in camera technology, optical sensors, and image-processing algorithms have made computer vision a viable option. Vision systems allow remote inspection while not interfering with the structure's operations and permit high density of measurements points.
This Topical Collection explores theoretical and experimental advances in optical sensors, computer vision, image processing and analysis for SHM and NDTE. We invite researchers to contribute original research, case studies, industrial applications and review articles over the current state-of-the-art.

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Sensors

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Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/65204

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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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