

Special Issue

Advances in Data-Driven Engineering for Aerospace Non-destructive Evaluation and Structural Health Monitoring

Message from the Guest Editors

This Special Issue focuses on the transformative impact of data-driven engineering and machine learning in aerospace, particularly in non-destructive evaluation and structural health monitoring of complex aerospace components. This interdisciplinary approach aims to improve aerospace industry practices by leveraging big data, advanced computation, and ML algorithms to solve complex, multi-objective optimization problems in aircraft manufacturing and maintenance. This Special Issue examines how ML algorithms, coupled with advanced sensor technologies, are revolutionizing non-destructive evaluation and structural health monitoring, leading to unprecedented levels of safety and efficiency. It underscores the transformative potential of ML in reshaping aerospace engineering, making it a critical area of study and innovation within the broader context of sensor technologies and their applications. For more information, please visit: mdpi.com/si/192785

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Deadline for manuscript submissions

closed (20 July 2024)



Sensors

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 9.4
Indexed in PubMed



mdpi.com/si/192785

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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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