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Recent Advances in Structural Health Monitoring and Damage Detection

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Deadline for manuscript
submissions:

31 May 2024

Message from the Guest Editors

Dear Colleagues,

Structural health monitoring (SHM) is the most interesting topic within non-destructive evaluation (NDE), as well as the most challenging technique to be implemented across several fields, especially in aeronautics and aerospace, as well as in wind turbines. In these particular fields, the challenges involve all the possible techniques and technologies which participate in the SHM process: signal generation and acquisition systems, wired and wireless connections, embedded sensors, data cleansing and processing techniques, interpretation of the extracted information, damage localization algorithms, and damage characterization and quantification methods. This Special Issue is intended to present all the aforementioned techniques and technologies, concerning the current state-of-the-art of the field, as well as to introduce emerging methodologies that can achieve SHM to be fully implemented in the industrial context and, particularly, in proper applications of the aeronautical and aerospace world, such as commercial or transport aviation, or wind turbines, in which SHM has not been completely applied yet.

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Special Issue



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Message from the Editor-in-Chief

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