## **Special Issue**

## Smart Sensing Systems in Aerospace

## Message from the Guest Editors

Health monitoring of aircraft structures is crucial in order to ensure their safety during service. The key to achieving this is developing online advanced sensing systems, including hardware and software. The former contains smart sensors, sensor arrays, and corresponding integrated measurement equipment to capture the responses of aircraft structures, i.e., vibration, strain, elastic/guided wave, electromechanical impedance, eddy current, and so on. The latter extracts the intrinsic features of the captured signals with advanced signal processing methods and synthesizes signal features for damage identification algorithms to evaluate the health status of structures. Moreover, the evaluation of the system's uncertainty in terms of its stability and reliability in different environments is also highly required in this discipline. This Special Issue is, therefore, dedicated to recent advances in novel smart sensing systems for structural health monitoring in aerospace applications.

### Keywords:

novel smart sensors sensor array design integrated measurement equipment advanced signal processing methods damage diagnosis algorithms uncertainty evaluation

## **Guest Editors**

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## Deadline for manuscript submissions

closed (30 August 2023)



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