

Special Issue

Smart Structures and Applications in Aerospace Engineering

Message from the Guest Editors

Smart structures have been the focus of research in the previous few decades, and they have the potential to improve the performance of various machines.

Becoming “smart” means that the structures have the potential to change their properties adaptively according to their mission requirements. To achieve this objective, the structures can be tuned passively by their design and optimisation. Also, the structures can be controlled actively by the integration of actuators and sensors. The rapid development of new materials, electronics, and design methods provided a strong technological push for smart structures in the field of aerospace engineering, aiming to improve the load-carrying, shape-changing, damage-detecting, and other capabilities of future aircrafts. We are pleased to announce This Special Issue, ‘Smart Structures And Applications in Aerospace Engineering’, and kindly invite the submission of full research and review papers on the design and optimisation of smart structures that use theoretical, numerical, and experimental approaches in the field of aeronautics and aeronautics. Prof.

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Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided. There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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