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Adaptive/Smart Structures and Multifunctional Materials in Aerospace

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Deadline for manuscript submissions:
closed (30 June 2022)

Message from the Guest Editors

Adaptive/smart structures and multifunctional materials have been used to design compliant skins of morphing wings. These skins have to be flexible in the morphing direction but rigid in other directions to maintain the aerodynamic shape of the wing and withstand the aerodynamic loads. The other main challenge facing morphing aircraft is the ability to design light weight, stiff, and robust adaptive structures that require minimal actuation power.

The use of adaptive/smart structures and multifunctional materials is not limited to morphing aircraft but has been used extensively in other fields, such as structural health monitoring, energy harvesting, suspension systems, wind-turbine blades, and many others. Therefore, we invite papers either addressing the research opportunities outlined here, or in the general topic area of adaptive/smart structures and multifunctional materials that will make a substantive contribution to the state of the art in aerospace area.

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Message from the Editor-in-Chief

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