Special Issue

Smart Aircraft Morphing Technologies

Message from the Guest Editors

The term morphing aircraft describes a broad range of air vehicles that can adapt their shape to planned and unplanned multipoint mission requirements. Adaptation appears in some sense more understandable than morphing and suggests the capability to change the relevant states of an air vehicle such as its shape. It is clear how morphing or adaptability, in general, has recently been a focus of interest for the research community as a possible approach to respond to the increased demand for better efficiency in reducing the environmental impact of future aircraft transport. Indeed, the development of new materials and manufacturing technologies, together with innovative actuation and control systems, make use of morphing technologies closer and applicable in conventional commercial aircraft. The goal of this Special Issue is to stimulate researchers working in this field to share their recent achievements in the field of morphing technologies applied to any kind of structure but with a special emphasis on aircraft, including commercial and high-performance aircraft, UAVs, and rotorcraft.

Guest Editors

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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