

Special Issue

Multidisciplinary Design of Aircraft and UAV with Novel Airframe Architectures

Message from the Guest Editor

Today, aeronautic research is driven toward solutions capable to reduce the environmental impact of air transport and seize the new opportunities offered by the digital transformation. The introduction of innovative propulsion technologies and architectures (e.g., distributed propulsion, hybrid power trains, BLI propulsion), sustainable drop-in and non-drop-in fuels (e.g., batteries, fuel cells, hydrogen, SAF), as well as the creation of new fields of applications for manned and unmanned vehicles (e.g., urban air mobility, hypersonic transport), allows expanding the aircraft design space beyond the boundaries of the conventional airframe architectures. Multidisciplinary design (MD) approaches are fundamental to explore such design space in order to achieve feasible design solutions and assess the operational and environmental benefits of the considered architectures. The goal of this Special Issue is to bring together the state of the art of multidisciplinary design methodologies and those application fields of the highest interest for research in aeronautics.

Guest Editor

Dr. Vittorio Cipolla

Department of Civil and Industrial Engineering, Università di Pisa, 56126 Pisa PI, Italy

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4052 Basel, Switzerland
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Editor-in-Chief

Prof. Dr. Konstantinos Kontis
School of Engineering, University of Glasgow, James Watt Building
South, University Avenue, Glasgow G12 8QQ, Scotland, UK

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