Special Issue

Novel Airfoils and Analysis for Emerging Aerospace Vehicles

Message from the Guest Editors

This special issue on “Novel Airfoils and Analysis for Emerging Aerospace Vehicles” seeks unique contributions on novel airfoils or methodologies to analyze airfoil aerodynamics that in theory or practice are likely to improve the aerodynamics and flight performance of UAM ‘air taxi’ or hypersonic aircraft. We are interested in novel airfoil designs that offer some aerodynamic, aerothermal, or aeroacoustic benefit in conjunction with their integration on a finite wing; such as reduced boundary layer shock interaction, wave drag, or aerodynamic heating. For low speed UAM aircraft, we are interested in how distributed electric propulsion with open rotors or ducted fans can be leveraged to produce airfoils and wings with unique design features to improve the aerodynamic efficiency or mitigate aeroacoustic noise (e.g., related to vortex shedding), which is critical for UAV aircraft to opearate in an urban metro. Finally, we are also seeking to publish studies that use modern numerical codes to analyze airfoils for these new emerging aerospace vehicles.

Guest Editors

Dr. Victor Maldonado

Department of Mechanical Engineering, Texas Tech University, 2500 Broadway, Lubbock, TX 79409, USA

Dr. Zhijin Wang

Department of Mechanical Engineering, University of Bath, Bath BA2 7AY, UK

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Aerospace
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
aerospace@mdpi.com

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Aerospace adheres to rigorous peer-review as well as editorial processes and publishes high quality manuscripts that address both the fundamentals and applications of aeronautics and astronautics. Our goal is to enable rapid dissemination of high impact works to the scientific community.

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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