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Optimal Design of Aircraft

Guest Editor:

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Deadline for manuscript submissions:
closed (15 January 2024)

Message from the Guest Editor

Dear Colleagues,

Faced with increasingly severe climate and environmental requirements and carbon emission pressure, the concept and pursuit of green aviation have increasingly become the focus of aircraft designers, manufacturers, and operators. Aircraft design is an optimization process. How to find a breakthrough in traditional disciplines such as aircraft overall design, aerodynamic design, structural design, flight control design, electronic and electrical system design, and how to achieve high efficiency, energy conservation, environmental protection, and other requirements for optimization and tradeoffs has become increasingly urgent. Furthermore, unmanned and intelligent, as well as electric and hydrogen energy, provide valuable solutions for the commercialization of green aviation.

- aircraft overall optimization design
- aerodynamic optimization design of aircraft
- aircraft structure optimization design
- optimal design of flight control system
- aircraft noise suppression and optimization design
- optimization design of aircraft electronic system
- optimization design of aircraft electrical system

Prof. Dr. Yongjie Zhang
Guest Editor

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Special Issue

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Message from the Editor-in-Chief

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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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