Special Issue

Electric Aircraft

Message from the Guest Editor

Ever-increasing energy demand and rising fuel prices have motivated aircraft industries to develop alternative power sources for future aircraft. Currently, hybrid electric and all-electric propulsion for future aircraft are popular fields in the aircraft industry and are forming the basis for future commercial aircraft design. Furthermore, battery technologies pose the most serious limitations to the development of all-electric and more-electric aircraft. However, rapid strides are being made in the evolution of battery technology and, for this reason, most aircraft industries are planning to introduce either more-electric or all-electric powered aircraft within the next two decades. Electric aircraft will pose new problems related to the general aircraft architecture, geometry and shape, battery, motor, propulsion system design, aerodynamics, drag reduction and boundary layer control, aircraft performance, stability and control, design of flight controllers, optimum structural design, and a host of other issues. In this Special Issue, we hope bring together a number of current aspects of electric aircraft that are being extensively researched in the aerospace community.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2018)

Aerospace

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Impact Factor 2.2
CiteScore 4.0

mdpi.com/si/11860

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