Special Issue

Electric Power Systems and Components for All-Electric Aircraft (2nd Edition)

Message from the Guest Editor

The transportation sector generates a remarkable share (the largest share (28%) in the U.S.) of greenhouse gas (GHG) emissions. To achieve net-zero emission, all-electric transportation has been targeted, making all-electric cars, trucks, trains, aircraft, and ships a likely realization. While electric vehicles are close to maturity, the aviation industry is in its infancy regarding electrification for commercial aircraft. Large aircraft, including narrow-body and wide-body aircraft, are responsible for more than 75% of aviation GHG emissions; this is likely to worsen with the historical 4–5% annual growth in air travel. There are two categories of aircraft electrification: more electric aircraft (MEA) and all-electric aircraft (AEA).

Guest Editor

Dr. Mona Ghassemi

Department of Electrical and Computer Engineering, University of Texas at Dallas, Richardson, TX 75080, USA

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

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