Call for Papers
IEEE Transactions on Transportation Electrification (TTE)

Special Issue on More Electric Aircraft

Electrification is a remarkable trend in the aviation industry; electric machines and power electronics systems have been increasingly embedded in aerospace applications. In this field, the above systems are mainly used in the flight control system, propulsion power system, engine starting/generating system, environmental control system, braking system, and fuel and hydraulic system. The power density, operating efficiency, integration degree, and reliability are critical performance requirements, which contain complex mutual coupling and conflicting requirements that need to be carefully considered. Furthermore, the specific external environment and load characteristics of the aviation applications will unavoidably pose challenges for the design and control of the electric machines and power electronics systems. This special issue aims to collect advanced theoretical and technological research findings in the design and control for electric machines, power converters, drives, and systems in more electric aircraft (MEA). Manuscripts with both theoretical interpretation and practical verification are strongly encouraged. Topics of interest include (but are not limited to):

- Hybrid propulsion/full electrical propulsion of aircraft
- Electrification of engine in aircraft
- Electrical drive and servo system in MEA
- Electrical environment control and deicing system in MEA
- Power supply system in MEA
- Power distribution system in MEA
- Energy conversion and management in MEA
- Electric machines for starter/generator applications or actuation in MEA
- DC/DC converters for the electrical power distribution system
- Storage management systems in MEA and hybrid electric aircraft

Submission of Manuscripts to the Transactions:
All manuscripts must be submitted through Manuscript Central at http://mc.manuscriptcentral.com/tte-ieee. Submissions must be clearly marked “Special Issue on More Electric Aircraft” on the cover page. When uploading your paper, please also select the “Special Issue on More Electric Aircraft.” Refer to the link below for general information about submission through Manuscript Central: https://www.ieee-pels.org/publications/ieee-transactions-on-transportation-electrification.

Important Dates:
- Full Paper Submission Deadline: January 31, 2020
- Expected Publication Date: September 2020

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