Special Issue

Control of Aircraft Electrical Power System

Message from the Guest Editor

Transportation electrification is considered as one of the key approaches to address global environmental concerns and to achieve sustainable future. In the aviation sector, long-term roadmap ACARE Flightpath 2050 targets a 75% reduction of CO2 and 90% of NOX emissions per passenger per kilometre. Achieving these challenging goals requires reconsideration of the underlying concepts of future aircraft. Many new aircraft types are now being developed, spanning from small drones and urban air vehicles to large passenger aircrafts. All these significantly rely on green electric energy, from adopting new electrically-driven secondary onboard systems to hybrid-electric and fully-electric primary propulsive systems. This Special Issue will address control challenges in future aircraft EPS, and papers investigating innovations is this area are invited. Topics may include but not be limited to EPS global and local control strategies, architectural solutions, power and energy management and optimisation, power routing and reconfiguration, electric power quality and stability issues.

Guest Editor

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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