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Control of Aircraft Electrical Power System

Guest Editor:

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Deadline for manuscript submissions:

closed (10 December 2020)

Message from the Guest Editor

Dear Colleagues,

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 NO_x 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 in 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.



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Special Issue



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Message from the Editor-in-Chief

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