



Drones and UAVs Energy Management Progress and Challenges

Guest Editors:

Dr. Zhibin Zhou

Department of Energy and
Electrical Systems, ISEN Yncréa
Ouest, 29200 Brest, France

Dr. Teresa Donateo

Department of Engineering for
Innovation, University of Salento,
73100 Lecce, LE, Italy

Prof. Dr. Mohamed Benbouzid

Institut de Recherche Dupuy de
Lôme (UMR CNRS 6027 IRDL),
University of Brest, 29238 Brest,
France

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Message from the Guest Editors

The implementation of energy storages and renewable energies for unmanned aerial vehicles (UAVs, also called drones) could be essential for guaranteeing flight durations under specific weight/volume constraints. When multiple power supply sources are installed in a drone, the variability of the operation conditions means the energy management and the power distribution strategies should match the characteristics of each power supply sources. To address these issues, some special design considerations should be adopted to combine different power sources (battery, fuel cell, supercapacitor, flywheel, etc.) and advanced energy management strategies (EMS) in the most efficient and effective way. Moreover, some fault-tolerant control strategies can be considered to insure smooth operation of the drone.

In this context, this Special Issue aims to be an open platform to share knowledge about drones and UAVs energy management progress and challenges. It particularly seeks original contributions regarding ideas, recent developments, or matured studies addressing both theoretical and experimental aspects.





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Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and
Telecommunications,
Politecnico di Torino, 10129
Torino, Italy

Message from the Editor-in-Chief

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Electronics Editorial Office
MDPI, Grosspeteranlage 5
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