

Special Issue

Renewable Energy Systems for Mobile Robots

Message from the Guest Editors

Autonomous robots have special energy needs, their batteries need to be recharged after every use and their autonomy is limited, particularly for aerial vehicles (UAV). In this Special Issue, potential topics include, but are not limited to the following: - Renewable energy supply systems for mobile robots.- Energy processing for mobile robots: New trends in conversion architectures.- Energy management in mobile robots: New trends in control algorithms.- Energy optimization in robotic applications.- Optimal battery recharging systems in off-grid environments.- New trends in electrical vehicles (EV) recharging in off-grid environments.- Contactless battery charging in mobile robots.- Rethinking usual robotic applications with off-grid supply.- New robotic applications in off-grid recharging systems. More information, please click [here](#).

Guest Editors

Prof. Dr. Antoni Grau

School of Industrial Engineering, Technical University of Catalonia (UPC, BarcelonaTech), E-08028 Barcelona, Spain

Dr. Herminio Martínez-García

Department of Electronic Engineering, Eastern Barcelona School of Engineering, EEBE, Technical University of Catalonia (UPC, BarcelonaTech), E-08019 Barcelona, Spain

Deadline for manuscript submissions

closed (31 October 2019)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 5.3



mdpi.com/si/22218

Electronics

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)





Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 5.3



[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)



About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPus /
SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Control and
Systems Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 16.4 days after
submission; acceptance to publication is undertaken in 2.4
days (median values for papers published in this journal in
the second half of 2024).