



Refurbishment, Remanufacturing and Retrofitting of Machinery in Cyber-Physical Production Systems

Guest Editors:

Dr. Pedro M. B. Torres

Prof. Gil Gonçalves

Prof. Robin Augustine

Prof. Dr. Volker Lohweg

Deadline for manuscript
submissions:

closed (31 December 2022)

Message from the Guest Editors

The goal is to save valuable resources by re-using equipment instead of discarding it via supporting legacy industrial infrastructures with advanced technological solutions that have built-in capabilities for in-situ repair, self-assessment, and optimal re-use strategies. Topics of interest for this Special Issue include, but are not limited to:

- Big data analytics, predictive analytics, and optimization models;
- Machinery digital twins;
- Refurbishment and re-manufacturing of machinery;
- Edge, fog, and cloud computing;
- Health monitoring, failure inspection, and diagnosis of machinery;
- Advanced mechatronics devices;
- Automation and robotics;
- Case studies and testbeds on smart manufacturing;
- Cyber-physical systems;
- Developments in intelligent manufacturing systems;
- Industrial communication protocols;
- Modeling and simulation for smart manufacturing;
- Smart actuators and materials;
- Sustainable materials, products, and processes;
- IoT and IIoT;
- 5G in industry;
- Big data and machine learning;
- Industrial vision systems;
- Vision-guided robotics.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Flavio Canavero

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank: JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

Contact Us

Electronics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/electronics
electronics@mdpi.com
[X@electronicsMDPI](https://x.com/electronicsMDPI)