Automation and Digitization in Industry: Advances and Applications

Guest Editors:

Dr. Ivo Pereira
Faculty of Science and Technology, Fernando Pessoa University, 4249-004 Porto, Portugal

Dr. Ana Madureira
Institute of Engineering, Polytechnic of Porto, 4200-072 Porto, Portugal

Dr. Benjamim Fonseca
INESC TEC, University of Trás-os-Montes e Alto Douro, 5000-801 Vila Real, Portugal

Deadline for manuscript submissions:
closed (20 April 2025)

Message from the Guest Editors

The Fourth Industrial Revolution (Industry 4.0) highlights the implementation of automation and digitization across industry domains. The Fifth Industrial Revolution (Industry 5.0) will maximize human and technological strengths, making human–machine collaboration more harmonious.

Papers on not only Industry 4.0 but also Industry 5.0 are welcome. We encourage researchers from different fields within the journal's scope to contribute with the latest developments in their research field and/or to invite relevant experts and colleagues to do so. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following: Artificial intelligence and machine learning; Internet of Things and Sensors; Edge computing and cloud services; Control and systems engineering; Modeling and simulation; Human-centered automation; Process automation and control; Robotics and machine automation; Digital twins; Cyberphysical systems; Process simulation and automation; Supply chain management; Predictive maintenance. We look forward to receiving your contributions.

Special Issue

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us