



Big Data and Artificial Intelligence for Industry 4.0

Guest Editors:

Prof. Dr. Matteo Golfarelli

Department of Computer Science
and Engineering, University of
Bologna, 47522 Cesena (FC), Italy

Prof. Dr. Enrico Gallinucci

Department of Computer Science
and Engineering, University of
Bologna, 47522 Cesena (FC), Italy

Deadline for manuscript
submissions:

closed (30 July 2022)

Message from the Guest Editors

Industry 4.0 pushes towards manufacturing automation through the digitalization of industrial processes and the adoption of smart technology such as Internet of Things (IoT) devices. The enormous amount of generated data poses challenges concerning the collection and management of big data, but also presents opportunities, such as the extraction of knowledge from these data, which can drive decision-making and the continuous improvement of industrial operations and production chain processes.

This Special Issue of *Electronics* aims to build a bridge between electronics and data analysis by presenting state-of-the-art advancements in the adoption of big data and artificial intelligence techniques to meet the requirements of Industry 4.0. The topics of interest include, but are not limited to, the following:

Industry 4.0; industrial big data and AI; cyber-physical systems; smart factory; predictive maintenance; e-health; smart agriculture; industrial process monitoring and automation; digital transformation processes; data-driven application





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), CAPus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Electrical and Electronic Engineering*) CiteScore - Q2 (*Electrical and Electronic Engineering*)

Contact Us

Electronics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

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