Special Issue

Artificial Intelligence and Control Systems for Industry 4.0 and 5.0

Message from the Guest Editors

The use of Artificial Intelligence (AI) is continuously growing. AI is present in industrial digitalization and the transformation of industrial systems, uniting the principles of Industry 4.0 with the human-centered and sustainable vision of Industry 5.0. This Special Issue explores the fundamental role of AI in enabling next-generation industrial systems, covering topics such as intelligent robotics, adaptive automation, distributed control, evolutionary computing and secure communications networks. Contributions focusing on the integration of AI in these domains are particularly welcome, as they highlight the potential of AI in Industry 4.0/5.0.We encourage submissions about the following subjects:

- Al-based control systems for smart and sustainable production;
- Integration of edge and cloud computing, 5G/6G networks and augmented reality in industrial environments:
- Intelligent automation, collaborative robotics and cyber-physical systems (CPS);
- Advanced industrial communication and cybersecurity protocols;
- Evolutionary and natural computing applications in adaptive and self-organizing systems.

Guest Editors

Dr. Filipe Pereira

1. INEGI-Institute of Science and Innovation in Mechanical and Industrial Engineering, Rua Dr. Roberto Frias, 4200-465 Porto, Portugal 2. MEtRICs Research Center, School of Engineering, University of Minho, Campus of Azurém, 4800-058 Guimarães, Portugal

Prof. Dr. Paulo Leitao

 Research Center in Digitalization and Intelligent Robotics (CeDRI), Instituto Politécnico de Bragança, Campus de Santa Apolónia, 5300-253 Bragança, Portugal

2. Laboratório Associado para a Sustentabilidade e Tecnologia em Regiões de Montanha (SusTEC), Instituto Politécnico de Bragança, Campus de Santa Apolónia, 5300-253 Bragança, Portugal



Future Internet

an Open Access Journal by MDPI

Impact Factor 3.6 CiteScore 8.3



mdpi.com/si/226290

Future Internet Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 futureinternet@mdpi.com

mdpi.com/journal/ futureinternet





Future Internet

an Open Access Journal by MDPI

Impact Factor 3.6 CiteScore 8.3



About the Journal

Message from the Editor-in-Chief

Future Internet is a fast-growing journal devoted to rapid publications of the latest results in the general areas of computer networking/communications and information systems, with a focus on the Internet of Things, big data and augmented intelligence, smart systems (in terms of technologies, architectures, and applications), network virtualization, edge/fog computing, and cybersecurity. Both theoretical and experimental papers are welcome. Every year, Future Internet also features Special Issues dedicated to specific topics within the journal's scope.

Editor-in-Chief

Prof. Dr. Gianluigi Ferrari

Department of Engineering and Architecture, University of Parma, Parco Area delle Scienze, 181/A, 43124 Parma, Italy

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, ESCI (Web of Science), Ei Compendex, dblp, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Computer Science, Information Systems) / CiteScore - Q1 (Computer Networks and Communications)

