

Special Issue

AI-Powered IoT (AIoT) Systems: Advancements in Security, Sustainability, and Intelligence

Message from the Guest Editor

The rapid convergence of Artificial Intelligence (AI) and the Internet of Things (IoT) is revolutionizing how connected systems sense, learn, and act autonomously across diverse environments. This Special Issue (SI) highlights the latest research and advancements in AI-powered IoT (AIoT) systems that enable intelligent decision-making, real-time analytics, and adaptive automation. It welcomes contributions that address the integration of machine learning, deep learning, and generative AI with IoT infrastructures to improve scalability, resilience, and energy efficiency. In addition, this SI underscores the growing importance of Responsible AI and Explainable AI (XAI) to ensure fairness, transparency, accountability, and trustworthiness within AIoT ecosystems. Submissions that explore how ethical frameworks, interpretable models, and human-in-the-loop approaches can guide secure, privacy-preserving, and sustainable IoT deployments are particularly encouraged. Overall, the goal is to provide a comprehensive view of how AI-driven intelligence can transform IoT networks into adaptive, ethical, and context-aware systems that benefit society and industry alike.

Guest Editor

Dr. Yazan Otoum

1. School of Electrical Engineering and Computer Science, University of Ottawa, Ottawa, ON K1N 6N5, Canada
2. School of Computer Science and Technology, Algoma University, Sault Ste. Marie, ON P6A 2G4, Canada

Deadline for manuscript submissions

30 June 2027



Computers

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 9.1



mdpi.com/si/259814

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

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





Computers

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 9.1



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



About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article, a comprehensive review or a software paper for consideration and publication in Computers (ISSN 2073-431X). Computers is an international, peer-reviewed, open access journal which provides an advanced forum for computer sciences. Computers is published in open access format—research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Paolo Bellavista

Department of Computer Science & Engineering (DISI), University of
Bologna, 40136 Bologna, Italy

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q2 (Computer Science, Interdisciplinary Applications) / CiteScore - Q1 (Computer Science (miscellaneous))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.4 days after submission; acceptance to publication is undertaken in 3.9 days (median values for papers published in this journal in the first half of 2026).