Special Issue

Challenges and Opportunities in Internet of Things and Cloud-Fog-Edge Computing

Message from the Guest Editors

The Internet of Things (IoT) and cloud computing have seen massive growth in recent years, with many key applications emerging. Artificial intelligence (AI) and machine learning (ML) play a critical role in enabling these technologies to spawn more effective applications. For successful deployment, and scalable, reliable, secure and efficient operation of cloud-native smart applications, tremendous research efforts are required in the areas of architectural models/frameworks, service orchestration, resource management, quality of service and security/trust/identity management. This Special Issue seeks novel contributions related to the abovementioned issues. Solicited papers include those on the following topics, among others:

- Architectural models for IoT and cloud-based computing;
- Service-oriented frameworks and middleware;
- Virtualization, containerization and microservices;
- Security for IoT and cloud data;
- Application of blockchain in IoT and cloud-based systems;
- AI and machine learning for IoT and cloud computing;
- Federated learning on cloud platforms;
- IoT and cloud-based smart applications;
- Osmotic computing and other edge computing paradigms;

Guest Editors

Dr. Salahuddin Azad

Prof. Dr. Girija Chetty

Dr. Fariza Sabrina

Dr. Shaleeza Sohail

Dr. Mohammed Kaosar

Deadline for manuscript submissions

closed (15 September 2024)

Electronics

About the Journal

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.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Author Benefits

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

Journal Rank:
JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:
manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).