Special Issue

Security and Privacy for IoT Applications in Smart Environments

Message from the Guest Editors

The emergence of the Internet of Things (IoT) is driven by the desire to effortlessly collect and transmit data, enabling seamless and remote information exchange. This concept refers to a network of interconnected objects and devices equipped with embedded sensors capable of collecting and transmitting data. IoT applications and devices have become integral parts of our daily lives. The extensive and diverse nature of the data collected by IoT devices raises fundamental security questions about data collection, processing, and storage. IoT devices are susceptible to various security risks, including distributed denial of service (DDoS) attacks, botnets, and malware, which assume control of compromised IoT devices for malicious purposes. DDoS attacks against IoT devices can affect not only the target but other devices and services in the same network. There is an urgent need to develop and adopt security standards to ensure the secure design, connectivity, and accessibility of IoT devices. The SI topics covered, but are not limited to, the following:

- Security and privacy in IoT applications
- Privacy-enhancing technologies for IoT systems

Guest Editors

Dr. Isam Wadhaj

School of Computing, Engineering & the Built Environment, Edinburgh Napier University, Edinburgh EH10 5DT, UK

Dr. Baraq Ghaleb

School of Computing, Engineering & the Built Environment, Edinburgh Napier University, Edinburgh EH10 5DT, UK

Deadline for manuscript submissions

15 November 2025

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/191050

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

mdpi.com/journal/electronics

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/journal/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).

MDPI