Special Issue

Technology of Mobile Ad Hoc Networks

Message from the Guest Editors

Ad hoc networks are pivotal in enabling decentralized, self-configuring communication systems for applications ranging from emergency response to smart cities. Ad hoc networking covers a variety of network paradigms including mobile ad hoc networks (MANETs), wireless sensor networks (WSNs), vehicular ad hoc networks (VANETs), airborne networks, underwater networks, personal area networks, collaborative robotics (CoBots), etc. With the rapid evolution of IoT, 5G/6G, AI/ML, and UAVs, ad hoc networks have been facing new opportunities and challenges. For example, MANETs may become edge networks and computing for 5G/6G; AI and machine learning could be utilized to predict node movement, optimize routing, or detect security threats; biology algorithms such as colony optimization could be introduced to UAVs; blockchain could be used to enhance the security and trust mechanism of VANETs; network coding could be leveraged to fight against wiretap attacks and TAAs (Traffic Analysis Attacks), and so on.

This Special Issue invites high-quality research addressing theoretical, practical, and innovative aspects of ad hoc networks.

Guest Editors

Dr. Heng Liu
Prof. Dr. Zhongshan Zhang
Dr. Xiaozheng Gao

Deadline for manuscript submissions

15 February 2026

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/246061

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 guestedited 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