Special Issue

5G Technology for Internet of Things

Message from the Guest Editor

In recent years, we have seen a significant surge in the number of Internet of Things (IoT) applications and services across different industry verticals, including the healthcare, manufacturing, and automotive industries. These applications have different requirements, such as, e.g., for bandwidth, latency, reliability, and energy, that the current mobile networks cannot fully accommodate given the way they are built and operated. Thus, 5G technology represents an auspicious solution to the ever-growing user demands as it endorses a new architecture. Prospective authors are invited to submit original contributions in areas including, but not limited to, the following:

Novel 5G-enabled IoT frameworks;

O-RAN deployments for IoT use cases and applications; Device search algorithms for 5G-enabled IoT systems; Blockchain-enabled 5G-based IoT systems;

Intelligent devices for 5G security;

Optimisation algorithms for O-RAN resource allocation; Interference mitigation algorithms for O-RAN;

RAN intelligent controllers:

Machine learning techniques to enhance O-RAN security;

Conflict mitigation in O-RAN networks; IoT in the 6th

Guest Editor

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Deadline for manuscript submissions

closed (15 April 2025)



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mdpi.com/si/183144

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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

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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).

