Special Issue

Next-Generation Industrial Wireless Communication

Message from the Guest Editor

This Special Issue invites original research articles, comprehensive reviews, and case studies on topics including, but not limited to, the following:

- 5G and 6G applications in industrial settings;
- Time sensitive network (TSN);
- Wireless sensor networks (WSNs) and their integration with next-gen networks;
- Backscatter communication and battery-free networks.
- New protocols and architectures for industrial wireless networks;
- Software-defined networking (SDN) for industrial applications;
- Edge computing and its impact on industrial wireless communication:
- Industrial Internet of Things (IIoT) and network slicing.
- Cybersecurity challenges in industrial wireless networks;
- Secure and reliable communication protocols;
- Fault-tolerant and resilient network design;
- Privacy-preserving technologies for industrial communication.
- Wireless communication in smart factories and digital twins:
- Real-time monitoring and predictive maintenance using wireless networks

Guest Editor

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Deadline for manuscript submissions

15 July 2025



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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

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