

## Special Issue

# Design, Control, Optimization, and Security of Next- Generation Communications Networks

### Message from the Guest Editors

The scope of this Special Issue is to present and highlight the advances in the latest optimization, control technologies, implementations, and applications of high-performance computation and communication for NGCNs. Consequently, the topics of interest include, but are not limited to, the following:

- Design and new architectures for NGCNs;
- Federated learning for NGCNs;
- AI-based data analytics methods for NGCNs;
- Distributed/decentralized control for NGCNs;
- Energy transfer, harvesting, and saving in NGCNs;
- Optimization of Resource Allocation and Management for NGCNs;
- Security and Privacy Issues in NGCNs;
- Green AI for training and inferencing;
- Enabling machine learning over wireless networks;
- Prototyping and testbeds for NGCN smart applications.

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### Guest Editors

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### Deadline for manuscript submissions

closed (15 April 2026)



## Electronics

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## 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.

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### Editor-in-Chief

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