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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Deadline for manuscript submissions

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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 guest-edited by leading experts in selected topics of interest.

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