Special Issue

Optimization and Machine Learning for Wireless Communications

Message from the Guest Editors

Contemporarily, optimization and machine learning techniques in engineering and science is the most rapidly developing research area seeking to improve communication systems and networks. The main objective of this Special Issue is to consolidate the most advanced optimization and machine learning approaches to solve the cumbersome problems in wireless communications. Both original research and review articles are welcome. Potential topics include, but are not limited to, the following:

- Optimization in wireless communications;
- Resource optimization in 6G/5G/LTE/WiFi applications;
- Model-based machine learning for communications;
- Convex optimization for signal processing and communications;
- Machine learning for wireless networks;
- Deep neural networks for joint source-channel coding;
- Constrained unsupervised learning for wireless network optimization;
- Capacity estimation using machine learning;
- Low-complexity, approximate solutions for difficult non-convex problems in wireless communications.

Guest Editors

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Deadline for manuscript submissions

closed (20 July 2023)

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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.

Editor-in-Chief

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