

Special Issue

Distributed Machine Learning and Federated Learning for Network Optimization towards 6G

Message from the Guest Editors

The Beyond 5G (B5G)/6G Ecosystem will involve the cooperation of a highly heterogeneous set of network technologies, including both Terrestrial and Satellite/Aerial Networks, to fulfill requirements of the future fully connected digital society, anticipating the Internet of Everything (IoE). In IoE, sensors are embedded with processes, people, data and things, to monitor, identify the status and act intelligently to generate new opportunities for the society. The 6G Ecosystem is expected to take the 5G softwarization and virtualization to the next level by empowering the network with Artificial Intelligence (AI)/Machine Learning (ML) approaches to optimize the network operation. The objective of this Special Issue is to present studies in the field of network optimization with ML, towards the 6G Ecosystem, with an emphasis on distributed ML and FL. The topics of interest include, but are not limited to, autonomous slice management, control and orchestration, cross-layer optimization, anomaly detection, and analytics.

Guest Editors

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Deadline for manuscript submissions

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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.

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