Special Issue

Advances in AI for 6G Signal Processing

Message from the Guest Editors

Future 6G systems consider more complicated communication and network scenarios, the traditional approach may not be suitable for supporting multiple 6G requirements. Furthermore, Artificial Intelligence (AI) now seems to dominate many aspects of current technology. AI and Machine Learning (ML) algorithms will be employed to solve multi-parameter optimization associated with wireless communication systems problems, enhance the performance of 6G and develop new services. This Special Issue aims to present an overview of recent advances in AI processes and algorithms with regard to the following research areas (topics) for future 6G mobile communications systems:

- Physical-layer signal processing with the aid of AI (modulation, error correction coding, power level, MIMO techniques, channel estimation in multicarrier systems, etc.)
- Data-link-layer signal processing with the aid of AI (resource allocation and scheduling, handover, etc.)
- Network-layer signal processing with the aid of AI (cell planning, network traffic, etc.)
- AI-based cross-layer optimization techniques.

Guest Editors

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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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