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AI-Based Communications

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Message from the Guest Editors

A variety of learning algorithms and artificial neural networks have been studied in recent research works on wireless communications. These include machine learning, deep learning, reinforcement learning, deep reinforcement learning, federated learning, deep neural networks, convolutional neural networks, recurrent neural networks, and generative adversarial networks. These technologies are utilized for signal detection, sparse signal recovery, channel modeling, network optimization, resource management, routing, transport protocol design, etc.

The goal of this Special Issue is to disseminate the latest research results on AI-based (or AI-aided) communications. Potential topics include, but are not limited to:

- AI-based signal detection, estimation, interference mitigation;
- AI-based MIMO, massive-MIMO, mmWave, beamforming;
- AI-based wireless sensor network (WSN), device-to-device (D2D) networks;
- AI-based Internet-of-Things (IoT), vehicular networks;
- AI-based resource and network optimization;
- AI-based fog/edge/cloud computing.



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Message from the Editor-in-Chief

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