Special Issue

AI-Based Communications

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.

Guest Editors

Dr. Jeong Woo Lee

Dr. Jingon Joung

Dr. Cheol-Ho Hong

Deadline for manuscript submissions

closed (31 October 2021)

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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