Special Issue

Artificial Intelligence-Aided Technologies and Applications in Next-Generation Smart Networks

Message from the Guest Editors

With the arrival of 6G networks, the next-generation smart networks will be an important component, promoting the enormous application prospects of artificial intelligence (AI) technologies. In this process, many urgent technology and application challenges are continuously emerging in the next-generation smart networks, such as wireless communications, multimedia processing, big data, edge computing, optical wireless communication, and so on. In dealing with these urgent challenges, AI-aided applications play important roles. Exploring the following topics could be helpful in understanding next-generation smart networks and in providing better solutions for dealing with associated challenges: state-of-the-art AI-aided technologies in wireless AI, green communications, distributed machine learning application, image processing, video processing, speech and audio processing, music processing, natural language processing, multimodality processing, Internet-of-Things, agricultural big data, agricultural Internet-of-Things (IoT), smart agriculture, edge computing, wireless power transfer, and heterogeneous computing, etc.

Guest Editors

Dr. Yuchao Chang

Dr. Wen Fang

Dr. Yi Zhong

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

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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