



## Recent Advances in Intelligent Distributed Computing and Its Applications

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### Message from the Guest Editor

Recent years have witnessed a popular trend in applying artificial intelligence and machine learning techniques for distributed computing and its applications. Emerging AI techniques such as deep neural networks, reinforcement learning, graph neural networks, game theory, etc. have been shown to be effective in facilitating a wide range of distributed computing scenarios, such as big data processing and analysis, learning-based resource management, network optimization, smart sensing, social network analysis, etc. On the other hand, novel distributed computing paradigms such as distributed machine learning, federated learning, crowdsourcing, etc., also provide basic support for the rapid development and application of AI techniques. This Special Issue is dedicated to intelligent distributed computing and its applications, whose interests include but are not limited to the following topics:

- Intelligent resource management for cloud computing;
- Intelligent communication for network optimization;
- Learning-based network protocol design and application;
- Machine learning for multimedia systems;
- Adaptive video streaming systems.





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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.

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