Special Issue

AI-Enabled Next-Generation Computing and Its Applications

Message from the Guest Editors

As artificial intelligence (AI) continues to advance at an unprecedented pace, its integration into computing systems is driving innovations. The convergence of AI with next-generation computing technologies, such as cloud computing, mobile computing, edge computing, secure and quantum-safe computing, and high-performance computing, is unlocking new frontiers in computational capabilities and enabling a wide range of applications across various domains. This Special Issue aims to provide a comprehensive overview of the current state of the art, identify challenges, and propose solutions for future research directions in AI-enabled next-generation computing. We welcome articles focused on the following relevant topics:

- Internet of Things (IoT) and Computation of Things;
- Cloud computing and big data applications;
- Mobile network computing and multi-access edge computing;
- Multimedia and communication systems;
- AI techniques in high-performance computing;
- Applications of AI in cybersecurity, healthcare, and IoT;
- Secure and quantum-safe computing;
- Future mobility applications and ICT convergence technology.

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About the Journal

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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