Quantum Computation and Its Applications

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Message from the Guest Editors

The Special Issue will mainly focus on high-quality research works focused on, but not limited to, one or more of the following topics:

- Quantum computing research and applications on chemistry and material science, blockchain and cybersecurity, logistics, healthcare, agriculture, finance, and so on;
- Quantum machine learning (algorithms, applications, and techniques);
- Quantum processing units (QPUs) and error correction;
- Quantum drug development;
- Parallel computations on quantum computing devices;
- Algorithms and quantum computing in the NISQ (noisy intermediate-scale quantum) era;
- Quantum key distribution;
- Post-quantum cryptography;
- Quantum annealing and adiabatic quantum computing;
- Quantum telecommunications;
- Quantum networking and quantum internet;
- Benchmarking quantum computing devices;
- Quantum computing and optimization (i.e., modelling and simulation);
- Quantum information theory (i.e., entropy, information channels);
- Classical shadows;
- Future trends of quantum computing;
- Quantum application in medical defense

Special Issue

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Message from the Editor-in-Chief

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