Special Issue

Quantum Computing and Networking

Message from the Guest Editors

Quantum computers such as IBM Q, Google Sycamore, and D-WAVE Advantage are built based on the phenomena of quantum superposition, quantum entanglement, and quantum tunneling. They perform computation on the basis of quantum bits or qubits. In contrast, traditional or classical computers perform computation on the basis of bits. A bit is either 0 or 1, but a qubit exists in a superposition of both 0 and 1, and only when measured does it clearly reveal the 0 or 1 state. Since the computing power of a quantum computer increases exponentially with the number of qubits, it has a computing power that cannot be surpassed by a classical computer, which is called quantum supremacy. This Special Issue solicits submissions of papers related to quantum computing and quantum networking. The topics include but are not limited to quantum algorithms, quantum annealing algorithms, quantum-inspired algorithms, distributed quantum algorithms, quantum machine learning, quantum neural networks, quantum key distribution, quantum network routing, quantum network communication, and quantum network protocol designs, and quantum Internet of Things (QIoT).

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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