Special Issue

Latest Research in Quantum Computing

Message from the Guest Editor

Daer Colleagues, Quantum computing is an emerging technology that can perform high intensive computing tasks which are needed in different areas such as data search from high volume data repository, prime factorization, number theory, cybersecurity, polynomial evaluation, interpolation, machine learning, artificial intelligence and many more applications. This Special Issue focuses on the recent advances, and challenges, in developing large-scale, fault-tolerant quantum computers capable of solving tomorrow's growing computational needs. Original unpublished papers and review articles are invited on the following topics: Quantum algorithms Quantum circuits; Quantum cryptography; Quantum computation; Quantum computer architecture; Quantum information; Quantum machine learning; Quantum networks and communication; Quantum programming; Quantum simulation; Complex dynamics; Open quantum dynamics; Computational complexity; Quantum chaos; Quantum complexity theory; Quantum maps; Quantum dots.

Guest Editor

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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

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