



an Open Access Journal by MDPI

Latest Research in Quantum Computing

Guest Editor:

Prof. Dr. Hai Jiang

Department of Computer
Science, College of Engineering
and Computer Science, Arkansas
State University, Jonesboro, AR
72401, USA

Deadline for manuscript
submissions:

closed (29 February 2024)

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 Original unpublished papers and review articles are invited on the following topics: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;

Special Issue





applied



Open quantum dynamics;
Computational complexity;
Quantum chaos;
Quantum complexity theory;
Quantum maps;
Quantum dots.

an Open Access
Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)