



Quantum Computation and Its Applications

Guest Editors:

Prof. Dr. Ilias K. Savvas

Department of Digital Systems,
Faculty of Technology, University
of Thessaly, 415000 Larissa,
Greece

Dr. Apostolis Xenakis

Department of Digital Systems,
School of Technology, University
of Thessaly, Geopolis, 41500
Larissa, Greece

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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 applications (i.e., medical, defense





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Prof. Dr. Flavio Canavero

Department of Electronics and
Telecommunications,
Politecnico di Torino, 10129
Torino, Italy

Message from the Editor-in-Chief

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Electronics Editorial Office
MDPI, St. Alban-Anlage 66
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