

## Special Issue

# Current Developments in Quantum Hybrid Systems

### Message from the Guest Editors

We invite researchers and experts to contribute their original work to a Special Issue on "Recent Advances in Quantum Hybrid Systems". The synergy between diverse forms of quantum and classical processing is vital to the rapid advancement of quantum computing. This Special Issue aims to showcase the latest progress in different aspects of hybrid quantum classical systems, ranging from applications to devices. Topics of interest include novel applications for quantum acceleration, software for quantum systems, hybrid quantum algorithms, quantum-inspired approaches, fault-tolerant quantum computing, quantum peripheral electronics, and quantum/classical resource estimation.

We welcome high-quality submissions that explore these topics and related areas, focusing on cutting-edge research, new tools and methods, and practical utility. Contributions may include original research papers, review articles, or perspectives; we are looking to provide a comprehensive overview of the field.

By participating in this Special Issue, you will have the opportunity to contribute to our collective knowledge of quantum hybrid systems and shape the future of this exciting field.

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### Guest Editors

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### Deadline for manuscript submissions

closed (20 February 2025)



## Applied Sciences

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## About the Journal

### 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.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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