

Special Issue

Quantum Computing: A Taxonomy, Systematic Review, and Future Directions

Message from the Guest Editor

This special issue welcomes the submission of new advanced and substantial contributions on state-of-the-art quantum computing as well as on the current body of knowledge on quantum information. This may include research on emerging trends in high-performance computing, quantum computing, hybrid classical and quantum computing approaches, demonstrations of quantum advantages, technology milestones in quantum networks and infrastructures, or quantum information processes in biological systems.

Guest Editor

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Message from the Editor-in-Chief

We get more and more evidence that quantum theory is the correct description of nature. It was born a century ago by explaining a few paradoxical results that could not be understood in the framework of classical physics. Today, quantum physics leads technological revolution in metrology, communication, computation, and the design of novel materials. Still it needs more solid foundations, and we need to develop a deeper understanding of how it can be used for new applications.

Quantum Reports is an online, open-access journal providing an advanced forum for clarifying foundations of quantum theory and developing its applications in all fields of physics and technology. *Quantum Reports* is inviting innovative and insightful contributions from the growing community of researchers of quantum science.

Editor-in-Chief

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