

Special Issue

Quantum IoT (QIoT): Revolutionizing Connectivity, Innovation, Challenges, and Applications

Message from the Guest Editors

Quantum IoT (QIoT) represents a groundbreaking integration of Quantum Computing and the Internet of Things, poised to revolutionize connectivity and drive technological innovation. By leveraging quantum technologies, QIoT can significantly enhance the efficiency, security, and scalability of IoT systems through quantum-enhanced algorithms, quantum cryptography, and advanced quantum sensors. Despite its vast potential, the implementation of QIoT faces challenges such as high research costs, infrastructure requirements, and the need for seamless integration with classical systems. This Special Issue explores the multifaceted dimensions of QIoT, presenting cutting-edge research and practical applications that highlight the transformative impact of quantum technologies on IoT. Through this collection, we aim to provide insights into the current advancements, future directions, and innovative solutions within the realm of QIoT, fostering a deeper understanding and inspiring further research in this emerging field.

Guest Editors

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Message from the Editor-in-Chief

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