

Special Issue

Quantum Intelligence: Steering Tomorrow's Quantum Computing Innovations

Message from the Guest Editors

Quantum Intelligence represents the convergence of quantum computing and intelligent systems, aiming to revolutionize how information is processed, secured, and transmitted in the digital age. As quantum technologies evolve, they promise breakthroughs in secure communication, distributed computing, and artificial intelligence. This Special Issue explores foundational and emerging topics—from quantum internet and entanglement at scale to post-quantum cryptography and quantum communication for AI systems—to shape resilient, scalable, and intelligent quantum infrastructures for tomorrow's interconnected world.

- Quantum internet
- Entanglement at scale
- Quantum key distribution (QKD)
- Hybrid quantum-classical networks
- Quantum repeaters
- Quantum cloud computing
- Post-Quantum cryptography
- Quantum satellites
- Standardizing quantum protocols
- Quantum communication for AI systems
- Quantum computing applications

Guest Editors

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Technologies, provides a single focus for reporting on developments of all technologies, regardless of their application. It is our intention that *Technologies* becomes the journal of choice for both researchers wanting to publish their work and technologists wishing to exploit the high quality research across a wide range of potential applications. Through its open access policy, its quick publication cycle, *Technologies* will facilitate the rapid uptake and development of the research presented, ultimately providing benefit to the wider society.

Editor-in-Chief

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