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The Quantum Internet

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Deadline for manuscript
submissions:
closed (31 October 2019)

Message from the Guest Editor

It is my pleasure to announce a Special Issue of Future Internet on “The Quantum Internet”.

The quantum internet is an infrastructure that enables the transmission and routing of quantum information, enabling long-distance quantum communication and cryptography, distributed quantum computing, and greatly enhanced precision metrology and sensing. One could break down the challenges of achieving a global quantum network into the following:

- Encoding and decoding quantum information between memories and carriers;
- Preserving quantum information en-route;
- Routing quantum information;
- Conceiving and improving quantum communication protocols.

Accordingly, I invite submissions on the following topics: quantum interconnects (e.g., on-demand entanglement links, quantum memories, etc.), quantum repeaters and bosonic error correction, quantum networking and protocols for distributed quantum computing, quantum cryptography, and quantum communications.

I believe that this Special Issue is an opportunity to strengthen the connection between the research communities that are developing the various aspects of the world’s future quantum communication infrastructure.



mdpi.com/si/23526



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Message from the Editor-in-Chief

Future Internet is a fast-growing journal devoted to rapid publications of the latest results in the general areas of computer networking/communications and information systems, with a focus on the Internet of Things, big data and augmented intelligence, smart systems (in terms of technologies, architectures, and applications), network virtualization, edge/fog computing, and cybersecurity. Both theoretical and experimental papers are welcome. Every year, *Future Internet* also features Special Issues dedicated to specific topics within the journal's scope.

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