





an Open Access Journal by MDPI

The Quantum Internet

Guest Editor:

Dr. Filippo M. Miatto

Télécom ParisTech, LTCI, Université Paris Saclay, 75013 Paris, France

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.











an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Gianluigi Ferrari

Department of Engineering and Architecture, University of Parma, Parco Area delle Scienze, 181/A, 43124 Parma, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, ESCI (Web of Science), Ei Compendex, dblp, Inspec, and other databases.

Journal Rank: JCR - Q2 (Computer Science, Information Systems) / CiteScore - Q1 (Computer Networks and Communications)

Contact Us