## **Special Issue**

## **Quantum Communications and Quantum Networks**

## Message from the Guest Editors

Quantum networks are the ultimate target in quantum communication, where many connected users can share information carried by quantum systems. The keystones of such structures are the reliable generation, transmission, and manipulation of quantum states. Twodimensional quantum states, *aubits*, are steadily adopted as information units. However, highdimensional quantum states, gudits, constitute a richer resource for future quantum networks, exceeding the limitations imposed by the ubiquitous gubits. We are inviting you to submit to this Special Issue papers discussing quantum communication in its broadest sense. The scope of the Special Issue includes (among others) high-dimensional quantum communication, high-dimensional entanglement generation, teleportation, quantum cryptography, quantum error correction, and co-existence between quantum and classical light within the same channels.

### **Guest Editors**

Dr. Davide Bacco

Dr. Guilherme B. Xavier

Dr. Rui Lin

### Deadline for manuscript submissions

closed (31 March 2021)



# Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



## mdpi.com/si/31177

Applied Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 applsci@mdpi.com

mdpi.com/journal/applsci





## Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



## **About the Journal**

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## **Editor-in-Chief**

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

## **Author Benefits**

## **Open Access:**

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

## **High Visibility:**

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

