



Optical Communication Device and System

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Message from the Guest Editor

Dear Colleagues,

The demand for high-capacity communication systems has grown exponentially in recent decades, constituting a technological field in constant change. In particular, the accelerated exponential growth of an extensive amount of data requires enormous computational resources, with machine learning techniques widely employed to process all these data. In this scenario, this Special Issue will publish high-quality, original research papers covering topics related to optical communication devices and systems. Our main objective is to develop works that push forward the current state of the art of optical communications, covering innovative technologies and solutions overlapping the fields of:

- Data transmission at high rates;
- Long-haul systems;
- Datacenter communication systems;
- Quantum communications in new optical systems;
- Artificial intelligence, machine learning, and deep learning in optical communication design;
- Signal processing and Big data applications;
- Novel integrated photonic devices and systems;





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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.

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