



## Coherent Optical Communications

Guest Editor:

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Deadline for manuscript submissions:

**closed (15 December 2022)**

### Message from the Guest Editor

Coherent optical communications for data rates of 100Gbit/s and beyond have been extensively studied, primarily because high sensitivity of coherent receivers could extend the transmission distance. The demonstration of digital carrier phase estimation in coherent receivers has illuminated coherent optical communications. Moreover, since the phase information is preserved after detection, linear equalization methods can be used to compensate linear optical impairments, such as chromatic dispersion and polarization mode dispersion (PMD).

This Special Issue on “Coherent Optical Communications” will welcome basic, methodological, and applied cutting-edge research contributions, as regular and review papers, dealing with:

- Fundamentals of coherent transmission technology;
- Multidimensional optimized optical modulation formats;
- Spectrally efficient multiplexing for coherent systems;
- Advances in detection and error correction techniques;
- Digital equalization in coherent optical systems;
- Implementation of high-speed digital coherent transceivers.

