

Special Issue

Optical Fiber Transmission Systems

Message from the Guest Editor

The capacity of optical transmission systems based on single-mode fibers (SMF) has grown by about three orders of magnitude over the last twenty years, reaching the so-called nonlinear Shannon limit. Further improvement of the capacity of an optical channel are offered by increasing the optical bandwidth, the use of advanced modulation formats, reducing the fiber nonlinearity, and the adoption of space-division multiplexing (SDM), together with the more common multiplexing techniques of wavelength (WDM) and of polarization (PDM). The Special Issue on Optical Fiber Transmission Systems aims to illustrate the most advanced techniques used to increase the capacity of an optical channel, covering the following topics:

- SDM techniques in multimode and multicore fibers;
- Ultra-wide band optical systems;
- Specialty optical fibers;
- Advanced modulation formats.

Guest Editor

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Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

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