

This Special Issue aims to publish selected contributions on technology and applications of fiber optic communications. Potential topics include, but are not limited to:

This paper gives an overview of fiber optic communication systems including their key technologies, and also discusses their technological trend towards the next generation.

Collectively, high-speed optical communication is transitioning to a paradigm featuring "spectrum-expanded fibers and capacity-expanded systems", marking a transformative leap in technological ...

The main directions of FOTS development are the improvement of active equipment and optical fiber lines. This paper is devoted to the trends in the development of active FOTS equipment.

This article aims to review the historical development of optical fiber technology, outline its critical milestones, and pay tribute to the pioneers who have made outstanding contributions to its ...

Recent advances in fiber and optical communications technology have reduced signal degradation to the point that regeneration of the optical signal is only needed over distances of hundreds of kilometers.

Developments in Optical fiber communication technologies date back to 1960s at a time when glass fibers and lasers were invented. Initially, the fiber attenuation was extremely high (> 1000 dB/km) but ...

To improve explainability and interpretability of ML algorithms in optical communications, and to gain novel knowledge about fiber-optic communications, we need to invent novel ML methods ...

It was almost a century later before optical-based communication was put to practical use, thanks in large part to the invention of optical fiber and lasers.

With the rise of new technologies such as the Internet of Things, big data, cloud computing, virtual reality, and artificial intelligence, there is an increasing need in society for high ...



Development Technology of Optical Fiber Communication

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