

Achieved bidirectional transmission at 400 Gb/s over a single fiber using coherent digital subcarrier multiplexing (DSCM). Employed subcarrier interleaving to effectively mitigate Rayleigh ...

In this paper, which is an invited follow-up of a tutorial given at ECOC 2023, we first present an overview of this evolving scenario and then propose a unified analytical model that is able ...

In order to provide a communication system meeting the long-distance transmission of 20KM without modifying the existing optical fiber communication line, the embodiment of the application provides...

Conducted experimental measurements and modeling of interference effects due to Rayleigh backscattering and discrete reflections in single-fiber bidirectional 400 G coherent systems.

This single fiber solution enables extremely high utilization of a single fiber to transport up to 8 x 400G coherent wavelengths by splitting them into 16 different wavelengths, transmitting in both directions ...

We propose a reflection-tolerant and flexible coherent PON solution based on interleaved TFDM, enabling bi-directional transmission with transceivers using single-laser.

We're excited to share our latest breakthrough: "Single-Fiber Bidirectional Transmission using 400G Coherent Digital Subcarrier Transceivers" by P. Torres-Ferrera and colleagues.

he Passive Optical Network (PON) architecture. In this article we report two main results: (i) that DSCM enables transmission with < 1 dB power penalty - caused by Rayleigh Back-Scattering (RB) -, for up ...

We experimentally evaluate the Rayleigh Back-Scattering power penalty in a single-fiber single-wavelength bidirectional link using coherent digital subcarrier-based transceivers and verify a ...

As mobile transport networks evolve, the need for high-capacity, single-fibre bidirectional (Bi-Di) transmission links becomes increasingly critical to maintain strict timing and synchronization ...

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