New technologies for optical transport networks

Emerging applications are driving new requirements for optical networks, including quantum communication, holographic telepresence, and brain ...

Key technologies like all-optical interconnection, fine-grain OTN (fgOTN), and optical-layer digitalization are required to ensure high bandwidth and low latency for the optical metro network architecture.

NG-OTN (Next-Generation Optical Transport Network) The key objectives of NG-OTN are to support all types and rates of telecom services, preserve compatibility with the existing OTN and eliminate the ...

This reprint covers recent advances and new trends in the research and standardization of optical networks with high impacts on the future digitized society and economy, encompassing all network ...

To meet the demands for massive data traffic, the DCI (Data Center Interconnect) network needs to provide new technologies such as long-distance and ultra-broadband transmission, deterministic low ...

AI technologies are reshaping how optical networks are designed, managed, and optimized. Using digital twins, multimodal learning, and autonomous control, AI-enabled operations ...

An in-depth overview of six upgrade paths for all-optical transport networks, covering spectrum expansion, 400G/800G evolution, fiber ...

Abstract: We explore some key advancements in optical X-haul technologies and present a roadmap for their successful implementation in next-generation mobile networks.

Learn more about the key optical network innovations and technologies delivering greater scale, simpler networks, and robust security for the AI era and the cloud-networked economy.

An in-depth overview of six upgrade paths for all-optical transport networks, covering spectrum expansion, 400G/800G evolution, fiber technologies, and long-term capacity strategies.

This entails a new operational paradigm for optical transport networks, hinting at a radical change in network design problems formulation as well as algorithm developments to tap into new ...

Emerging applications are driving new requirements for optical networks, including quantum communication, holographic telepresence, and brain-computer interfaces.

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