

Abstract--Optical switching may be instrumental in meeting the cost, power, and bandwidth requirements of future data center networks. However, optical switching faces many challenges to ...

The feasibility, challenges, and potential of next-generation optical networks are described in a survey of state-of-the-art optical networking testbeds. Animations showing how the key optical switching ...

hybrid electric-optical data center networks. Our focus in this survey is to highlight and categorize reconfigurable optical networks in enterprise networks, and therefore leave last-mile optical ...

The aim of this paper is to build a fiber-optic network that includes the optical switch, which is the most crucial component due to its critical role in fulfilling the demands of the fiber-optic ...

The performance metrics that are required for optical switches to truly emerge in datacenters are discussed and summarized, with special focus on the switching time, cost, power consumption, ...

Full connectivity maintained with 4% of links, 7% of ToRs, or 40% of circuit switches failed (Better than oversubscribed Fat Tree, not as good as static expander)

We introduced an optical switched datacenter network interconnection layer (DCNI) to connect the blocks. This layer uses MEMS-based Optical Circuit Switches (OCS) to enable fast, reliable and ...

We explore optical switching to extend network programmability to the physical layer and discuss applications of a Layer-1 software-defined network (SDN) in AI/HPC clusters.

In this paper, we present a review of optical switching techniques capable of meeting the requirements of the next generation of large-scale data center networks.

Reconfigurable optical networks have emerged as a promising technology to efficiently serve the fast-growing traffic produced by the digital society. This paper provides a survey of the field.

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