Low-loss procurement of OTN routers

In this paper, we propose a novel ILP formulation for OTN planning with minimum cost of multi-rate interfaces in Optical Transport Networks.

In this paper, we propose a novel single-step Genetic Algorithm (GA) to jointly optimize OTN-layer equipment cost (OTN boards) and WDM-layer equipment (mainly OAs) cost. We propose ...

In this paper, we present two innovative designs of five port non-blocking ONoC routers constructed by using micro-ring resonators and waveguides for low power losses and the optimum...

Using a converged DWDM and OTN platform, the network with trafic not destined for an IP Router is selectively bypassed at the OTN layer. This results in reduced capex and lower power consumption.

The solution is low power consumption and saves rack space, reducing overall CAPEX and OPEX, and enabling to easily and cost-effectively increase capacity of short haul networks.

This paper highlights the benefits of utilizing OTN for Access networks by reducing the overall costs and saving expensive router ports to reduce overall capex spend.

ITU-T has used the completed optical specification from IEEE 802.3 as a basis for how to use the same pluggable modules for OTN client interfaces rather than developing competing or ...

Nowadays in the rapidly evolving field of System on Chip (SoC) technology, the demand for efficient on-chip processing has increased. To address these requireme.

In this paper we further develop a LLF (Link Loss For- ward) feature which can monitor the health of this 100G system and make a necessary link failure management.

Built upon the ITU-T"s optical transport network (OTN) standards and supporting the reconfigurable optical add/drop multiplexers (ROADMs) functionality, P-OTNs efficiently and cost-effectively ...

In this paper, we devise a novel approach for low-cost deployment of OTN grooming boards with the aim of minimizing overall equipment and energy consumption cost. Specifically, we ...

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