

Fiber Optic Communication Resource Allocation Methods

The main purpose of this paper is to present an analysis of resource efficiencies for various allocation methods applied in the proposed OAM& WDM-PON architecture with a ...

Section 3 introduces our proposed method, which combines the Best-Fit heuristic with selective rerouting and a dynamic threshold to optimize resource management in EONs. This section also ...

Abstract--As quantum key distribution networks grow in size and complexity, resource assignment has become increasingly important. In passive optical networks with optical wavelength conversion, we ...

Provided in the present invention is a resource allocation method in a multi-core optical fiber network.

Abstract The increasing need for rapid data transmission in optical networks has made the effective allocation of spectrum resources a crucial necessity. This study presents a new spectrum ...

In this paper, we discussed and addressed the allocation of the optical fiber sensing and communication integrated (OFSCI) network with the limited sensing resource for the first time.

This paper reviews the different transmission parameters, network parameters, performance metrics, and baselines used by the recent proposals to build a framework for future ...

We propose a resource allocation algorithm for a single flexible-grid fiber link based on a nonlinear signal distortion model, as a first step towards whole-network design.

In this paper, the allocation of limited sensing resource in optical fiber sensing and in a communication integrated (OFSCI) network is discussed for the first time.

Depending on the severity of inter-core crosstalk, we emphasize the importance of designing suitable resource allocation techniques, such as core selection, spectrum slot finding and ...

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