Advanced scheduling algorithm for quality of service support in WDM EPON

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References:


Abstract:

In this paper we present and analyze the model for wavelength and bandwidth allocation in hybrid TDM/WDM EPONs with full quality of service (QoS) support, called the dynamic wavelength priority bandwidth allocation with fine scheduling (DWPBA-FS). In order to implement the QoS support, we present a new approach for QoS analysis and implementation in WDM EPON, an approach in which wavelength assignment takes place per service class and not per ONU, which is a case that has widely been suggested by the common approach in literature.

Keywords:

Optical communications; Networks, wavelength assignment