

Abstract

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Optical Parameters and Link Delay Dependent Routing Metric for OBS Networks

New routing metric is proposed for Optical burst switching (OBS) networks taking into account some optical parameters as number of channels, load and link bandwidth. Also path delay is taken into account for best serving real time dependant applications. The results show better routing decisions than link bandwidth dependent routing metrics leading to lower BLR by more than 22% in some topologies. Also controllable BLR and path delay combination for OBS networks can be achieved.