Abstract

A promising solution to increasing busy traffic over the Internet can be Optical Burst Switched (OBS) networks with scalable and efficient multicast support. The efficiency of multicasting in OBS networks depends on: the burstification process, the multicasting schemes, tree sharing strategies, construction of shared trees, multicast schemes for dynamic sessions and membership. In this article, the contributions of various researchers are studied thoroughly and compared to survey the various approaches and problems of multicasting in OBS networks and outline several future research directions in terms of applications in business, especially in Business-to-Business (B2B) and Business-to-Consumer (B2C) Models, through optimal resource utilization of QoS aware multicasting in OBS networks.

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Index Terms

Computer Science | Communications

Keywords

Obs Multicasting Tree Sharing Strategies Shared Trees Multicast Schemes Multicasting In Obs