

Congestion control in optical burst switching networks

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Abstract: The necessity of addressing congestion control in optical burst switching networks arises from the rapid increase in traffic volume and the growing demand for quality of service. This research aims to build an effective control system to minimize congestion through the application of intelligent control algorithms. The research methodology combines theory with experimentation, including model analysis and application deployment on a lab network. The significance of this research lies in its ability to improve the performance and reliability of optical transmission systems, while contributing to the development of modern network technology.

Keywords: congestion control, optical burst switching network, intelligent control algorithm