



**International Conference on Latest Trends in Engineering,
Management, Humanities, Science & Technology (ICLTEMHST -2022)
27th November, 2022, Guwahati, Assam, India.**

CERTIFICATE NO : ICLTEMHST /2022/C1122969

**CONGESTION CONTROL TECHNIQUES FOR SEAMLESS DATA FLOW IN
HIGH-SPEED NETWORKS**

K ABDUL RASAK

Research Scholar, Department of Computer Application,
Sri Satya Sai University of Technology & Medical Sciences, Sehore, M.P., India.

ABSTRACT

The efficient management of data traffic is crucial in today's age of high-speed networks to guarantee a consistent and fluid user experience. Congestion is becoming more of a concern as digital connectivity becomes more essential to our daily lives. The key to overcoming this obstacle is congestion control systems, which coordinate a variety of algorithms, protocols, and methods to eliminate bottlenecks in a network. In this research, we examine many Congestion control strategies for easing congestion in wired communication networks and preventing it altogether, with a focus on High-Speed Networks. The evolution of congestion control technologies is influencing the future of network management and keeping information superhighways clear of traffic in a society that is becoming increasingly reliant on them.

Keywords: *High Speed, Traffic, Queue, Bandwidth, Nodes.*