Abstract

In this paper, we describe the formatting guidelines for IJCA Journal Submission. Congestion is the problem that occurs due to saturation of network resources. Still the implementation of traditional congestion control algorithms such as OSI Layer 4 Transmission Control Protocol/Internet Protocol (TCP/IP), due Objected Oriented congestion remains a critical issue in Local Network, ATM networks and SONET. Fuzzy Logic is applied to resolve the network traffic control problem as medium of networks are too difficult using traditional control system theory. Fuzzy Logic based congestion control good result the traditional methods in various cases. It is the first time that an explicit rate-based congestion control system designed with the fuzzy logic control is proved globally asymptotically stable. This Paper is a review of Fuzzy Logic and Neural-Fuzzy based techniques that applied to deal with congestion. Fuzzy Logic based Congestion Controller is a model free controller that utilizes qualitative reasoning to implement non-linear control functions efficiently.

References
1. Andreas Pitisillides and Ahmet Sekerciouglu “Fuzzy Logic based Congestion Control”
http://Citeseerx.ist.psu.edu/viewdoc/summery?doi=10.1.1.69.4324


21. Q. Hu, D. W. Petr and C. Braun, Self-tuning fuzzy traffic rate control for ATM networks,
IEEE International Conference on Communications, ICC’96, pp. 424-428, Dallas, Texas, USA, 1996.

Index Terms

Computer Science  Fuzzy Systems

Keywords

Congestion control, Fuzzy Logic, ATM Networks, Neural-Fuzzy Networks, Fuzzy Inference Systems (FIS)