



Abstract

BROWSE

SEARCH

IEEE XPLORE GUIDE

◀ View TOC | ◀ Previous Article | Next Article ▶



You are not logged in.

Guests may access Abstract records free of charge.

You must log in to access:

- Advanced or Author Search
- CrossRef Search
- AbstractPlus Records
- Full Text PDF
- Full Text HTML

Login

Username

Password



» [Forgot your password?](#)

Please remember to log out when you have finished your session.

Access this document



Full Text: [PDF](#) (301 KB)

» [Buy this document now](#)

» Learn more about [purchasing articles](#)

» Learn more about [purchasing standards](#)

Rights and Permissions

» [Learn More](#)

Download this citation

Available to subscribers and IEEE members.

An Adaptive Congestion Control Method for Guaranteeing Delay in RED-Based Queue Using Learning Automata

Jahanshahi, Mohsen Meybodi, Mohammad Reza

Department of Computer Engineering, Islamic Azad University - Central Tehran Branch, T
Mjahanshahi@iauctb.ac.ir;

This paper appears in: [Mechatronics and Automation, 2007. ICMA 2007. International](#)

Publication Date: 5-8 Aug. 2007

On page(s): 3360-3365

Location: Harbin, China,

ISBN: 978-1-4244-0828-3

Digital Object Identifier: 10.1109/ICMA.2007.4304102

Posted online: 2007-09-24 10:21:09.0

Abstract

Some applications such as audio and video conferencing require a network to provide QoS. End delay is one of the prominent factors in QoS. Packets after crossing the routers queue node. Thus with guaranteeing the queuing delay in routers the network will be able to guarantee delay. Furthermore developers can contract service level agreement (SLA) intelligently. In queuing delay, congestion control algorithms can be used in routers. Furthermore provide level agreement (SLA) intelligently. Congestion control algorithms are a solution to guarantee Random early detection (RED) is the most known and applicable congestion control algorithm extended researches in this field were carried out, but there is no investigation on queuing RED based queue yet. To achieve this goal, in this paper a novel method using stochastic proposed. In the proposed method, thresholds of RED algorithm, in order to guarantee delay previous approaches are adjusted dynamically. Proposed method, in addition the delay guarantee increase the utilization of output link. Therefore, the proposed method can provide better QoS

Index Terms

Available to subscribers and IEEE members.

References

Available to subscribers and IEEE members.

Citing Documents

Available to subscribers and IEEE members.

◀ View TOC | ◀ Previous Article | Next Article ▶ | [Back to top](#) ▲

[Help](#) [Contact Us](#) [Privacy](#)

© Copyright 2006 IEEE

