

عنوان مقاله:

Improvement of the mechanism of congestion avoidance in mobile networks

محل انتشار:

دومین کنفرانس بین المللی مهندسی دانش بنیان و نوآوری (سال: 1394)

تعداد صفحات اصل مقاله: 7

نویسندگان:

Maryam Bagheri - *Department of Computer Engineering Payame Noor University Tehran, Iran*

Bitam Amirshahi - *Assistant professor, Department of Computer Engineering, Payame Noor University Tehran, Iran*

خلاصه مقاله:

Congestion control is a key problem in mobile ad hoc networks (MANET). The standard congestion control mechanism of the Transmission Control Protocol (TCP) is not able to handle the special properties of a shared wireless multi-hop channel well. In particular, the frequent changes of the network topology and the shared nature of the wireless channel pose significant challenges. Many approaches have been proposed to overcome these difficulties. In this paper, a new approach Multipath Load Balancing and Rate Based Congestion Control (PROPOSED METHOD) based on rate control mechanism for avoiding congestion in network communication flows. The proposed approach contains an adaptive rate control based technique in which the destination node copies the estimated rate from the intermediate nodes and the feed back is forwarded to the sender through an acknowledgement packet. Since the sending rate is adjusted based on the estimated rate. Simulation results show that proposed technique has better packet delivery ratio and also controls the congestion in more effective manner.

کلمات کلیدی:

Mobile Adhoc Networks, Congestion control, TCP, Rate Control

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/553240>

