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Computer Engineering and Technology 2013

IJCA Proceedings on Futuristic Areas in

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FACET

Year of Publication: 2013

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{bibtex}facet1312.bib{/bibtex}

Abstract

A cross-layer based approach for improving TCP performance in Multihop Mobile Adhoc Networks (MANETs) is proposed in this paper. The proposed congestion triggering mechanism triggers congestion whenever the channel occupied ratio (COR) reaches a maximum threshold value and the received signal strength is less than a minimum threshold value. Following it, the congestion control scheme controls the data sending rate of the sender by determining

available bandwidth, delay of its link and COR. Further, a fair resource allocation scheme is put forwarded.

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Index Terms

Computer Science

Communication

Keywords