

Close

Web of Science
Page 1 (Records 1 -- 1)

Print

**Record 1 of 1****Title:** Algorithm for Enhancing the QoS of Video Traffic over Wireless Mesh Networks**Author(s):** Moh, ANA (Moh, Abdul Nasser A.); Abdullah, RM (Abdullah, Radhwan Mohamed); Abualkishik, AZ (Abualkishik, Abedallah Zaid); Ali, BB (Ali, Borhanuddin Bin Moh); Alwan, AA (Alwan, Ali A.)**Source:** INTERNATIONAL JOURNAL OF ADVANCED COMPUTER SCIENCE AND APPLICATIONS **Volume:** 10 **Issue:** 4 **Pages:** 451-456 **Published:** APR 2019**Times Cited in Web of Science Core Collection:** 0**Total Times Cited:** 0**Usage Count (Last 180 days):** 0**Usage Count (Since 2013):** 0**Cited Reference Count:** 18

Abstract: One of the major issues in a wireless mesh networks (WMNs) which needs to be solved is the lack of a viable protocol for medium access control (MAC). In fact, the main concern is to expand the application of limited wireless resources while simultaneously retaining the quality of service (QoS) of all types of traffic. In particular, the video service for real-time variable bit rate (rt-VBR). As such, this study attempts to enhance QoS with regard to packet loss, average delay, and throughput by controlling the transmitted video packets. The packet loss and average delay of QoS for video traffic can be controlled. Results of simulation show that Optimum Dynamic Reservation-Time Division Multiplexing Access (ODR-TDMA) has achieved excellent utilization of resource that improvised the QoS meant for video packets. This study has also proven the adequacy of the proposed algorithm to minimize packet delay and packet loss, in addition to enhancing throughput in comparison to those reported in previous studies.

Accession Number: WOS:000467916400057**Language:** English**Document Type:** Article**Author Keywords:** Wireless Mesh Networks (WMNs); Medium Access Control (MAC); Quality of Service (QoS); video traffic**KeyWords Plus:** MAC PROTOCOL; ACCESS**Addresses:** [Moh, Abdul Nasser A.; Ali, Borhanuddin Bin Moh] Univ Putra Malaysia, Fac Engr, Dept Comp & Commun Syst Engr, Serdang 43400, Selangor, Malaysia.

[Abdullah, Radhwan Mohamed] Univ Mosul, Div Basic Sci, Coll Agr & Forestry, Mosul, Iraq.

[Abualkishik, Abedallah Zaid] Amer Univ Emirates, Dubai, U Arab Emirates.

[Alwan, Ali A.] Int Islamic Univ Malaysia, Dept Comp Sci Kulliyah Informat & Commun Technol, Kuala Lumpur 53100, Malaysia.

Reprint Address: Moh, ANA (reprint author), Univ Putra Malaysia, Fac Engr, Dept Comp & Commun Syst Engr, Serdang 43400, Selangor, Malaysia.**Publisher:** SCIENCE & INFORMATION SAI ORGANIZATION LTD**Publisher Address:** 19 BOLLING RD, BRADFORD, WEST YORKSHIRE, 00000, ENGLAND**Web of Science Categories:** Computer Science, Theory & Methods**Research Areas:** Computer Science**IDS Number:** HY1ZP**ISSN:** 2158-107X**eISSN:** 2156-5570**29-char Source Abbrev.:** INT J ADV COMPUT SC**ISO Source Abbrev.:** Int. J. Adv. Comput. Sci. Appl.**Source Item Page Count:** 6**Output Date:** 2019-07-31

Close

Web of Science
Page 1 (Records 1 -- 1)

Print

**Clarivate**

Accelerating innovation

© 2019 Clarivate Copyright notice Terms of use Privacy statement Cookie policy

Sign up for the Web of Science newsletter Follow us

