

عنوان مقاله:

QoS-aware enhanced proportional fair scheduling algorithm for real-time services in LTE networks

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نویسندگان:

Mahnaz Sotoudeh Bahreyni - Department of Information Technology Engineering, Science and Research Branch, Islamic Azad University, Kerman, Iran

Vahid Sattari-Naeini - Department of Computer Engineering, Shahid Bahonar University of Kerman, Kerman, Iran

خلاصه مقاله:

The new generation of wireless networks (LTE advance and WIMAX) supports many services that consume many resources (such as VOIP, video conference ...). Adding multi-media services to wireless communication systems provide new challenges of resource allocation. This paper proposes a resource scheduling downlink algorithm for LTE networks. In the proposed algorithm for different types of services, priorities are defined to guarantee transitions of GBR services that need high QoS. This method also considers channel quality and buffer status to achieve higher throughput for non-GBR services. The proposed algorithm is simulated and compared with the proportional fair algorithm. Simulation results show that the suggested algorithm can increase system throughput and QoS of real-time services at the cost of a certain amount of throughput and QoS of non-real times.

کلمات کلیدی:

LTE networks, scheduling, GBR services, Non-GBR services, Quality of service, Downlink

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