عنوان مقاله:

QoS Aware Dynamic Resource Allocation in Multiuser OFDM Systems with Priority for Different Performances

محل انتشار:

چهاردهمین کنفرانس مهندسی برق ایران (سال: 1385)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

In this paper, we propose an algorithm for dynamic resource allocation in OFDM (orthogonal frequency division multiplexing) or OFDMA (OFD multiple access) based networks. We consider two groups of users consisting of group 1 called constant bit-rate (CBR) users (who are delay-sensitive and datarate sensitive) and group 2 called best effort (BE) users. The proposed algorithm gives higher priority to the first group at the time of resource (transmitted power levels and subchannels) allocation to each user, to meet their CBR requirements. The performance of the proposed algorithm is evaluated through computer simulations, which show that the algorithm performs near optimum with the added superiority of meeting the bit requirements of the first group users.

کلمات کلیدی:

Multiuser OFDM, dynamic resource allocation, fairness, priority

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