ISSN 2394-3777 (Print)
ISSN 2394-3785 (Online)
Available online at www.ijartet.com

International Journal of Advanced Research Trends in Engineering and Technology (IJARTET)
Vol. 1, Issue 4, December 2014

Scheduling of OFDMA Networks at Relay Stations and Analyse QoS

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Abstract: For opportunistic network coding, let as present a novel model for network coding aware RSs. Here, an opportunistic network coding problem is reduced to an opportunistic sub channel scheduling problem. It is necessary to originate an optimization problem, which aims at maximizing the average weighted-sum rate for both downlink and uplink sessions of all MSs, while sustaining the quality-of-service (QoS) requirements of each MS. By solving it, an Adaptive Fuzzy resource scheduling algorithm that optimally and opportunistically schedule sub channel, transmission power, reduced power consumption, network coding, and time duration of each phase in each time-slot. To determine the resource share for flows attached to the same subscriber station (SS), a user-level proportional-loss scheduler is elected. The experimental results, shows how each of network coding strategy and dynamic TDD affects the network performance with various network environments.

Keywords: OFDMA, resource allocation, network coding, Time Division Duplexing, opportunistic scheduling, Adaptive Fuzzy algorithm, Quality of Service.