Abstract

Packet scheduling algorithms play an important role in determining throughput performance of LTE system. A stationary user with poor CQI (channel quality indicator) has smaller throughput and present scheduling algorithms are unable to address this issue. In this paper, a new scheduler technique is proposed which enhances throughput and fairness in LTE system for stationary as well as mobile users. This paper takes up preexisting scheduling algorithms and modifies them to schedule users according to a different criterion like fairness and Channel Quality Indicator. A hybrid of Round Robin and Best CQI techniques has been proposed for scheduling of the users which produces increased throughput for different SNR values simulated against Pedestrian and Vehicular moving models. The proposed model is very effective for stationary users, increasing throughput up to 500% and has been verified through MATLAB simulations.

References


Location Awareness Impact on Long Term Evolution (LTE) System

2010-Fall), 2010 IEEE 72nd, sept. 2010, pp. 1–5

Index Terms

Computer Science  Wireless

Keywords

LTE, Radio Resource Management (RRM), Round Robin Scheduler, Best CQI Scheduler.