Abstract

The necessity for high data rate mobiles is fast growing. New data steam applications, online gaming and high speed applications are very quickly evolved. The Third Generation Partnership Project (3GPP) offered a full network solution to increase the data rate. This network solution called Long Term Evolution (LTE). LTE can support high data rates up to 100 Mbps for downlink and 50 Mbps for uplink. To reach this high data rate, time and frequency shared resources must be appointed to user equipments (UEs) in right way. LTE has several downlink scheduling algorithms for assigning the resources. In this paper the analysis of Round Robin and Best Channel Quality Indicator (CQI) are carried and the comparisons are applied through a MATLAB based simulator.

References

- Available: http://www.nt.tuwien.ac.at/ltesimulator/
Long Term Evolution Planning and Optimization based Downlink Scheduling


**Index Terms**

Computer Science  Communication Systems

**Keywords**

LTE network  Round Robin  CQI  simulation