

Performance evaluation of some scheduling algorithms on the downlink in LTE networks

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Abstract: This paper focuses on evaluating the performance of different scheduling algorithms on the downlink in Long Term Evolution (LTE) networks. The research context is set in a practical environment where optimizing power and quality of service is a critical requirement. The research objective is to investigate and compare the effectiveness of existing scheduling algorithms to improve downlink data transmission performance. The applied methodology includes both theoretical analysis and practical experiments on an LTE simulation network. The expected results will provide valuable information for selecting optimal algorithms in modern mobile systems, while also contributing to the understanding of data transmission technology in telecommunications networks.

Keywords: LTE scheduling, Downlink performance, Scheduling algorithm