Abstract

This paper addresses the subcarrier allocation in multicarrier direct sequence code division multiple access (MC DS-CDMA) systems, where one subcarrier is assigned to several users who are distinguished from each other by their unique direct sequence spreading codes. There are some existing algorithms, their advantages and shortcomings in context to MCDS-CDMA systems are discussed in this paper. Firstly the WSA, WCA, WCF and IWE-WSA algorithms are discussed. Furthermore a new algorithm WSA-AVG is proposed. The error performance is investigated and compared and accordingly figure out the results.
MC DS-CDMA: Subcarrier-Allocation Technique for Downlink by using WSA-AVG Algorithms

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Index Terms

Computer Science

Algorithms
**Keywords**
Multicarrier  Ds-cdma  Mc Ds-cdma  Ofdma  Subcarrier Allocation  Complexity