Abstract

WiMAX offer a very demanding multiuser communication problem. To make resource allocation more practical, in mobile WiMAX subchannelization is used. The Resource Allocation is usually formulated as a constrained optimization problem for either fixed-rate applications such as voice or for variable rate applications such as data. In this paper we address Genetic
Algorithm for Resource Allocation in downlink Mobile WiMAX networks. Objective of proposed algorithm is to optimize total throughput. Simulation results show that Genetic Algorithm performs better than methods proposed in [5] in terms of higher capacities.

References


Index Terms

Computer Science
Wireless

Keywords
WiMAX Subcarrier Allocation power allocation Genetic
Algorithm