Abstract

Radio resource is scarce for cellular network and application of this network is increasing. We assume radio resources here are complete frequency carriers. Different traffic load conditions generate hot and low traffic areas. We are assuming a macro-cellular scenario where base stations communicate by exchange of information. To maintain performance of the whole network, load sharing in distributive manner is required. To achieve this, the paper describes a framework of multi-agent system and heuristic approach for negotiation of base stations. Results stated at every step are showing enhancements in the performance of the network.
Reference

2. Guohong Cao, Associate Member, IEEE, And Mukesh Singhal, Senior Member, IEEE, “Distributed Fault-tolerant Channel Allocation For Cellular Networks”, Ieee Journal On Selected Areas In Communications, Vol. 18, No. 7, July 2000 Pp. 1326-1337

Index Terms

Computer Science
Communications
Key words

Cellular Network
Multi Agent System

Heuristic Search
Call dropping probability