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### **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.

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## Index Terms

Computer Science

Communications

**Key words**

Heuristic Search

Call dropping probability

Cellular Network  
Multi Agent System