

基于免疫计算的WCDMA网络基站选址优化

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A Novel Immune Algorithm for WCDMA Base Station Locations Optimization

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摘要

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摘要 为了解决WCDMA网络基站选址优化问题, 该文给出了一个基于免疫计算的选址优化方案。研究了容量约束下的小区面积, 给出了免疫优化算法框架, 并与文献算法进行了对比实验。实验结果表明: 该文算法方案能以较小的网络建设代价满足覆盖要求, 具有较好的应用价值。

关键词: 宽带码分多址接入(WCDMA)网络 基站选址优化 免疫优化算法

Abstract: To solve the optimization locations of base station in Wideband Code Division Multiple Access (WCDMA) network, a solution of optimization locations based on immune algorithm is proposed. The cell area subject to cell capacity is expounded, the framework of immune optimization algorithm is given, and simulation experiments are done to validate algorithm. Experimental results show that the proposed solution of optimization locations can meet the coverage needs with low cost of network construction relatively, has the advantages of good application value.

Keywords: Wideband Code Division Multiple Access (WCDMA) network Base station locations optimization Immune optimization algorithm

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