

CDMA/OFDMA异构网络中最小化中断概率的网络选择方案

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Network Selection Strategy for Minimizing Outage Probability in CDMA/OFDMA Heterogeneous Networks

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摘要

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摘要 该文针对采用周期式负载测量机制的CDMA/OFDMA异构网络场景,提出了一种最小化SIR中断概率(Minimizing SIR Outage Probability, MSOP)网络选择方案。该算法采用Wilkinson近似方法得出呼叫最佳接纳概率。仿真结果证明,在较长的测量周期下,该算法能有效实现负载均衡,获得更高的中继增益,提高资源的使用效率;同时,该算法也能大大降低呼叫的平均中断概率,使用户获得更好的通信体验。

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Abstract: A network selection algorithm for CDMA/OFDMA heterogeneous networks using periodic load measurement scheme, which is named as Minimizing SIR Outage Probability (MSOP) network selection. In this algorithm, the best access probability is derived through the Wilkinson approximation method. Simulation results show that the MSOP algorithm can realize load balancing with long measurement interval, and consequently get better trunking gain, so as to improve the resource efficiency. Mean while, the average SIR outage probability is also decreased, so users can get better experience.

Keywords: [Wireless Heterogeneous Network \(WHN\)](#) [Network selection](#) [Load balance](#) [Outage probability](#)

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