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网络与通信

基于声望模型的联合呼叫接纳控制算法

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摘要: 为了弥补异构无线网络中呼叫接纳控制研究场景的局限性,降低终端选择接入网时的盲目性,将研究场景从 两个接入网延伸为多个接入网,提出一种基于声望模型的联合呼叫接纳控制算法。将声望模型应用于网络选择过程, 增加了网络反馈机制。在用户侧,终端根据网络声望值大小选择接入网;在网络侧,采用动态带宽分配和缓冲队列策略 来提高接入成功率。仿真结果表明,该算法有效降低了新呼叫阻塞率和切换呼叫掉线率。

关键词: 联合呼叫接纳控制 声望模型 动态带宽分配 缓冲队列

Joint call admission control algorithm based on reputation model

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Abstract: In order to make up for the limitation of research scenario of call admission control in heterogeneous wireless networks and reduce blindness of access network selection, the scenario was extended from integrated system with two networks to integrated system with multiple networks, and a joint call admission control algorithm based on reputation model was proposed. The reputation model was applied in the network selection and feedback mechanism. On the user side, the terminals chose the access network according to the networks' reputation; on the network side, the networks made decisions ▶陈栩杉 by adaptive bandwidth management and buffer queuing policy to enhance the probability of successful acceptation. Simulation results show that by using the proposed algorithm, new call blocking probability and handoff call dropping probability can be reduced effectively.

Keywords: joint call admission control reputation model adaptive bandwidth management buffer queuing

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