



差错信道下无线局域网EDCF接入延时分析

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Wireless LAN EDCF Access Delay Analysis under Error-Prone Channel

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摘要

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摘要 该文研究了差错信道下无线局域网加强分布协调功能(EDCF)的接入延时性能。利用马尔科夫模型的分析结果,提出了差错信道下针对不同优先级业务的接入延时分析模型并通过仿真验证了分析结果的准确性。仿真结果表明, IEEE 802.11 EDCF通过为不同优先级业务配置不同的接入参数满足各类应用的服务质量(QoS)需求。

关键词: 无线局域网 IEEE 802.11 加强分布协调功能(EDCF) 接入延时 优先级 差错信道

Abstract: The access delay of Enhanced Distributed Coordination Function (EDCF) in WLAN under error-prone channel is studied. Utilizing the Markov chain model, a model for analyzing the access delay of different priority traffic under error-prone channel is proposed, and the accuracy of the model is verified with simulation. Simulation results show that IEEE 802.11 EDCF meets the Quality of Service (QoS) of different applications by setting different accessing parameters.

Keywords: Wireless Local Area Network(WLAN) IEEE 802.11 EDCF (Enhanced Distributed Coordination Function) Access delay Priority Error-prone channel

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