

无线传感网络的安全访问控制算法研究

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摘要: 提出一种基于速率变化调整的无线传感网络安全访问控制算法, 首先分析无线传感网络访问数据平均输入速率和输出速率、访问数据效率控制、访问数据公平性控制等参数的要求; 采用丢包率平滑器, 对无线传感网络丢包数据进行平滑处理; 最后通过对无线传感网络访问数据包速率变化的调整, 实现安全访问控制. 实验结果分析证明, 利用该算法能够最大限度地利用无线传感网络中的服务资源, 实现了无线传感网络的安全访问控制, 具有广泛的应用价值.

关键词: 无线传感网络; 安全访问; 丢包率平滑器; 速率变化; 控制算法

Secure Access Control Algorithm for Wireless Sensor Network

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Abstract: This paper proposes a method to match the feature points of user information based on probability generation. In the fusion probability assignment generation theory to set up a user information probability generation model, the latent variables of unknown type defines the user information for the model, calculate the joint probability distribution, distribution of resources of each type of access to a posteriori estimates, given different types of resources associated with the measurement of the threshold, construct the matching feature expression, calculate the most the characteristics of short distance between adjacent types of user information, the user information matching feature points of University library. The simulation results show that the proposed method can improve the accuracy of the feature points matching, which can lay a solid foundation for improving the service quality of University library.

Key words: wireless sensor network; security access; the packet rate smoother; rate of change; control algorithm

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