物联网环境下超高频射频识别系统中多卡识别的实现

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摘　要：提出一种基于多服务器的物联网环境下超高频射频识别系统中多卡识别的实现方法，对高频射频识别系统进行分析，并研究超高频射频识别系统中的能量和数据传递方式，在此基础上通过建立多服务器系统模型，设计物联网环境下超高频射频识别系统的分组加密算法，根据超高频射频识别系统中的冲突，完成防冲突分析，最后通过对识别系统中识别卡片的选择，完成物联网环境下超高频射频识别系统中多卡识别.实验证明，所提方法能够提高系统的存储容量，实现远距离无障碍读取，具有使用范围广，安全保密性好等优点，具有良好的使用价值.

关键词：物联网；超高频射频识别系统；多卡识别

Realization of Multi-Card Recognition in UHF RFID System in Internet of Things

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Abstract：In this paper, a multi-card identification method based on multi-server system is proposed. The high frequency radio frequency identification system is analyzed and the energy in the UHF RFID system is studied. And data transmission mode, so as to complete the ultra-high frequency radio frequency identification system anti-collision analysis, on the basis of the establishment of multi-server system model, and the design of the Internet environment UHF radio frequency identification system packet encryption algorithm, Identify the conflict in the system, complete the anti-collision analysis, and finally through the recognition system to identify the card selection, complete the Internet environment under the ultra-high frequency radio frequency identification system in multi-card recognition. Experiments show that the proposed method can improve the storage capacity of the system, realize the long distance barrier reading, has a wide range of use, good security and other advantages, and has good use value.

Key words：internet of things;UHF radio frequency identification system;multi - card identification

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