Student IT Research Exposition

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CLEVER ASSISTIVE FAMILY MONITORING ROBOTS FOR ADULTS AND KIDS WITH AUTISM

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Abstract:

In this project, we going to make robots for monitoring household things to do and additionally to reveal the fitness of our family. In view of the existing household protection coefficient and bad household surroundings data manipulate had been complicated, household contributors cannot get admission to environmental records conveniently, this paper proposed an ARM cortex sequence nuclear core processor used in the Internet of matters of the household embedded robotic system, with the aid of the use of the 802.11 g and TCP/IP, HTTP to realise the countless distance sign transmission, and adopted the H264 video coding scheme for real-time monitoring of video photo sign coded, and decoded RTP/RTCP for video streaming transmission, and used C/S architecture, B/S architecture, the fashion designer of the database with the server to make sure that the household monitoring information saved and displayed in real-time, and used SSH protocol to make sure that the far flung manage and the security reliability of the robot. By the experimental results, the feasibility of the scheme was once verified, which had a desirable impact on monitoring.