

IOT base Smart Home Appliances by using Cloud Intelligent Tetris Switch

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Abstract— To enhance the convenience of life, Internet of things today is a famous research topic. However, different home appliances provide different functions and services. Hence, in this research, the IOT base Smart Home Appliances by using Cloud Intelligent Tetris Switch is proposed which including the *Cloud Intelligent Tetris Switch*, *Cloud Home as a Service (HaaS) Server*, and *IOT based Appliances*. The *Cloud Intelligent Tetris Switch* is proposed to achieve the power control and local data exchanging. In addition, the dynamic extendable module is embedded. The *IOT based Appliances* provide the service of identification. Similar to the EPC network, the corresponding home appliance description data with RFID unique number can be obtained from the Internet and manufacture. The *Cloud Home as a Service (HaaS) Server* is proposed to provide the user interface for client users, storage all the information or data corresponding to the specific house, and query the function information of individual home appliance.

Keyword— Cloud, Internet of Things (IOT), Home Appliance, Smart Home, Switch



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