

Design of a smart home model using wireless sensor networks

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Abstract: In the context of increasingly complex urban life and the high demand for quality of living, this topic focuses on designing a smart home model based on a wireless sensor network. The goal is to build an automation system with remote monitoring and control capabilities to enhance resource efficiency and strengthen home security. The research method includes synthesizing and analyzing previous works, then implementing a practical application in a sample household to verify the system's feasibility. The expected result is to provide a comprehensive solution for smart homes, while contributing to the development of IoT technology in the housing sector.

Keywords: Wireless sensor networks, Smart home, IoT technology