Investigating the Challenges of Implementing Smart Homes in Iran

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Abstract

One of the areas that have been changed by the introduction of computer infrastructure is home and smart buildings. In a smart house, by integrating cloud computing technology and extracting information from the environment by sensors and actuators, various services such as internet services are presented to users. Design of tools that allow users to easily control the smart house is a challenging issue in environmental and internet intelligence that should be considered by researchers. Because of the diversity of existing solutions, it is not easy to understand which requirements should effectively support end users. Success in design and improvement of smart homes depends on the functional and user aspects of smart technologies and also requires understanding the actual needs and different lifestyles of users. In this research paper, researchers examine the challenges of home intelligent systems, applications for resolving them, as well as examining the issues of implementing this technology in Iran. This study is an analytical description and data collection based on library research and written sources and their content analysis. The results showed that the infrastructure of the same and required in the building, the technical, cultural and financial substrates for proper and principled implementation have not been created in order to achieve the fundamental and main goals of this technology in the country.

Keywords: Smart home, Internet of things, Building Management System, Smartification.

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