

Smart Home System

Mr.Rohit Kadam¹, Mr.Pranav Mahamuni², Mr.Yash Parikh³

¹(Department of Computer Engineering, Sinhgad Institute of Technology and Science, Pune, India)

²(Department of Mechanical Engineering, Sinhgad Institute of Technology and Science, Pune, India)

³(Department of Mechanical Engineering, Symbiosis Institute of Technology, Pune, India)

Abstract— Smart home technology is emerging rapidly as an exciting new paradigm. A wide range of aspects that includes security, energy saving, ventilation, smart kitchen is covered in this paper. All of the above is executed with the help of smart devices such as remote control, security alarms, sensors etc. In this paper we present the above mentioned technologies and tools that can be integrated in smart home systems which can provide security energy saving and other such smart systems.

Keywords— Smart home technology, Security alarm, Sensors, Remote Control, Energy Management, Smart Network

I. INTRODUCTION

Smart home is the integration of technology and services through home networking for a better quality of living. It uses different technologies to equip home parts for more intelligent monitoring and remote control and enabling them for influential harmonic interaction among them such that the everyday house works and activities are automated without user intervention or with the remote control of the user in an easier, more convenient, more efficient, safer, and less expensive way. In some cases, Integrating the home services as shown in fig. 1 [1] allows them to communicate with one another through the home controller, thereby enabling single button to control the various home systems according to preprogrammed scenarios or operating modes [2].

Smart homes have the potential to improve home comfort, convenience, security and energy management. Moreover it can be used for elder people and those with disabilities, providing safe and secure environments.

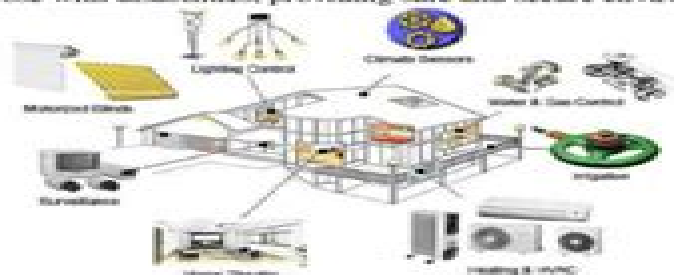


Fig.1 A Smart home Integration services

Section I is a brief definition of smart home and its benefits. Section II focuses on the Smart home technology. Section-III describes a case study of how smart home can reduce the energy consumption via managing intelligently the devices by controlling the lighting, air conditioning (HVAC) and other home appliances. In section IV, Conclusion and in Section V, References have been provided.

II. SMART HOME TECHNOLOGY

A. Smart home network

Smart home network technology can be classified into two main types, which are wiring system and wireless systems. [3]In wiring system-here are many types of wires that people may want to install in-wall. Many home-automations are connected through wiring system such as new wire (twisted pair, optical fiber), Powerline, Busline, etc. An example of outstanding technology is X10, which is open standard for home automation. X10 transmits binary data using the Amplitude Modulation (AM) technique. And X10-controllers send signals over existing AC wiring to receiver modules.

In the wireless system, there must have two main elements that are sender and receiver. Many new appliances use wireless technology to communicate with other devices. The example of wireless communication system are microwaves, Infrared (IR), radio frequency (RF), Wi-Fi, Bluetooth, IEEE 802.11, and so on. Furthermore, some of smart home network standard can work using both wiring system and wireless system. An example of wireless communication system for smart home is Z-wave, which is a reliable and affordable wireless home automation solution.

Smart Home System Paper

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SMART SECURITY SYSTEM FOR HOME AUTOMATION C Sridhar Babu, **IoT Based Smart Applications** Nidhi Sindhwani, Rohit Anand, M Niranjanamurthy, Dinesh Chander Verma, Emilia Balas Valentina, 2022-09-30 This book provides insights into IoT its applications and various implementation techniques The authors first discuss the IoT design methodology to define the domain model They then cover various connection methodologies used in IoT such as Ethernet Wi Fi low powered wide area network LPWAN Bluetooth RFID cellular and satellite and more along with their challenges An example is made on the designing process using Arduino which offers smart connected and secure elements they also illustrate the integration of IoT with Blockchain cloud machine learning big data embedded software sensors etc The book going on to cover the future of IoT in various sectors and how IoT will continue to be game changing technology

Smart Homes and Health Telematics Abdelsalam A. Helal, 2008-06-16 This book constitutes the refereed proceedings of the 6th International Conference On Smart Homes and and Health Telematics ICOST 2008 held in Ames IA USA in June July 2008 The 24 revised full papers presented were carefully reviewed and selected from 54 submissions The papers are organized in topical sections on assistive technology to improve quality of life for older adults and their caregivers context awareness autonomous computing devices systems and algorithms for vision hearing cognitive communication impairments home health monitoring and intervention human machine interface and ambient intelligence modeling of physical and conceptual information in intelligent environments real world deployments and experiences in smart homes hospitals and living communities and social privacy security issues

Advances in Electronics, Computer, Physical and Chemical Sciences Saiyed Salim Sayeed, Hemant Kumar Sharma, Pramod Kumar Yadav, Brijesh Mishra, 2025-04-29 The conference aimed to provide a platform for researchers scientists technocrats academicians and engineers to exchange their innovative ideas and new challenges being faced in the field of emerging technologies It provided an opportunity to exchange ideas among global leaders and experts from academia and industry in developing domains such as machine learning intelligence systems smart infrastructure advanced power technology and so forth It covered all broad disciplines of electronics computer physical and chemical science engineering

Smart Homes and Beyond Chris D. Nugent, Juan Carlos Augusto, 2006 Based on the thought to continue to develop an active research community dedicated to explore how Smart Homes and Health Telematics can foster independent living This work focuses on promoting personal autonomy and extending the quality of life by considering including smart services inside and outside of the home

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Marinković, 2016-06-03 **Harnessing the Internet of Everything (IoE) for Accelerated Innovation Opportunities**

Cardoso, Pedro J.S., Monteiro, Jânio, Semião, Jorge, Rodrigues, João M.F., 2019-02-15 As innovators continue to explore and create new developments within the fields of artificial intelligence and computer science subfields such as machine learning and the internet of things IoT have emerged Now the internet of everything IoE foreseen as a cohesive and intelligent connection of people processes data and things is theorized to make internet connections more valuable by converting information into wise actions that create unprecedented capabilities richer experiences and economic opportunities to all players in the market Harnessing the Internet of Everything IoE for Accelerated Innovation Opportunities discusses the

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