Abstract

The use of smart environments in the delivery of a pervasive care is the research topic that has witnessed increasing interest in recent years. These environments aim to deliver pervasive care through ubiquitous sensing by monitoring the occupant's activities of daily living. In order for these environments to succeed in achieving their goal, it is crucial that sensors deployed in the environments perform faultlessly. Ambient Assisted Living (AAL) is currently one of the important research and development areas, where accessibility, usability, and learning play a major role and where future interfaces are an important concern for applied engineering. In this paper, we discuss the research work carried out for various applications of AAL. We summarize techniques and tools for AAL and also their benefits and limitations. Using a summarized data we also look for different future challenges. The aim of this paper is to survey different AAL technologies to assist the elderly people to live in a smart environment.


Index Terms

Computer Science

Information Sciences

Keywords

Ambient Intelligence, Location Identification schemes, Mobile Robot, Smart Environment, Ambient Assisted Living.