PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF-RELIANT

- **DOMAIN** : INTERNET OF THINGS

- **TEAM ID** : PNT2022MID49311

- **BATCH NO** : B1-1M3E

- **TEAM LEADER** : DHARANI T

- **TEAM MEMBER** : GOKUL T

    NAVEEN S

    KAVIRATHNA S

    SNEGA S

Caring help is essential for carrying out everyday activities when older persons age alone and become weak with functional limitations. The current study set out to examine the role and
features of privately employed Personal Care Assistants (PCAs) who
provide care for elderly people in Italy in light of the family's decreasing capacity to provide care and the under-resourcing of governmental services.

In the "Inclusive ageing in place" (IN-AGE) project, 120 qualitative interviews with elderly persons in their homes in the Italian regions of Lombardy, Marche,and Calabria were conducted in 2019. Along with some basic quantifications of assertions, a content analysis was done.
Results revealed that PCAs were helpful in 27 situations, mostly when older citizens' health difficulties were raised.

With the benefits of hands-free and eyes-free engagement modalities to manage requests, voice assistants based on smart speakers promise to support the elderly population. The advantages of this kind of gadget are seen differently by older persons, although little is known about this. The ease of a speech-based engagement contributed to the favourable first reception to voice assistants. Particularly, it was common to finish an engagement with a voice assistant by expressing gratitude or providing criticism on the quality of the responses. Asking queries about health care and streaming music were the two main themes of orders given during the first conversation. However, the majority of the
subsequent responses were negative due to the challenges in creating a structured language for a command.

The robot for the elderly discussed in this essay is made up of numerous electrical components that can be changed in the future and utilised to create new robotic appliances that may be used in a domestic setting. A personal assistant robot called "Robo care for Elderly" is a prototype that will one day be utilized to care for and accompany the elderly. The Raspberry Pi microcomputer, an ultrasonic sensor, a PIR sensor, a temperature sensor, LEDs, an integrated Bluetooth module, a Dc motor, a servo motor, speakers, etc. are all part of this system. The major goal of the created work is to create a personal assistant robot prototype that is affordable and usable in every home, improving the usage of technology.

Cognitively impaired individuals struggle to independently plan their everyday activities. A virtual agent could be a helpful daily calendar aide, but this requires that these particular user groups accept the system and can communicate effectively with it. In this study, studies that address these issues for older users and users with cognitive impairment are presented. Results from focus groups and interviews indicate that using a participatorydesign approach can boost acceptance. The viability of spoken-language interaction is shown through actual interaction studies with a prototype, which also disclose mitigation techniques for comprehending issues.

One of the key contributors to a person's life quality degrading as their ageing process progresses is social isolation and loneliness. These factors, which are brought on by the person's decreased social engagement with their friends, family, and former coworkers groups, can have a significant impact on their general health. On the other hand, software and hardware technologies have advanced to the point where electronic assistant scan now both speak with users using natural voice language and gather information from them via camera photos. In this regard, a paradigm for the elderly's acceptance of electronic intelligent assistants has been put forth in prior research. In the current study, it is evaluated whether employing.

- **PAPER 06**   : Universidad de Granada, E.T.S. of Computer and Telecommunication Engineering, Granada, Spain

- **PUBLICATION YEAR :** 2022

- **AUTHOR**   : Manuel Bolaños

Because of the trend toward higher population growth worldwide, some authors agree that older people experience social and technological isolation, if not outright exclusion, as a result of their ageing condition. Therefore, studies are required to identify the expectations of this population in terms of the usage and adoption of technology. As a result, new technological developments implement specific requirements that aid older people in adjusting to their use. This essay discusses a study conducted to assess how well-liked smart virtual assistants are among the elderly. Considering certain experiences in the development and implementation of technology for this kind of study, the design and execution of a recreational strategy to remember taking drugs.

- **PAPER 07**   : Information Systems and eBusiness Management

- **PUBLICATION YEAR :** 2018

- **AUTHOR**   : Heetae Yang and Hwansoo Lee

The market for virtual personal assistant (VPA) gadgets is emerging as a new field of conflict for international information technology businesses with the development of artificial intelligence technologies. Based on perceived value theory, this study creates a thorough research model to explain why potential users could choose to embrace and employ VPA devices. It examines the connection between qualities associated to a product's perceived utility, delight, and enjoyment (i.e., portability, automation, and visual attractiveness). Using data from 313 survey samples, partial least squares analysis is used to assess the research model and hypotheses. The findings demonstrate that usage intention is significantly influenced by perceived utility and enjoyment. The software and hardware-based utilitarian value, has the biggest effect on perceived usefulness.