**HAND GESTURE CONTROLLED SMART HOME USING LabVIEW**

**ABSTRACT:**

Our Project deals with the Ambient Intelligence to make it possible for the elderly and disabled to have a longer independent life - at home, rather than living in long-term care facilities. Ageing implies accessibility issues and technology should have a ‘design for all’ approach. The system ought to foster independence of the physically challenged and the elderly over complicated systems with complex functionalities, so that they feel more at home. We propose the solution by concept of Ambient Intelligence (AmI), which, by combining computing, electrical and networking technologies, makes the home environment more sensitive, secure and intelligent.

The proposed system will use hand gestures to control one or many devices. A camera is made to monitor the users hand activity and whenever it finds a static gesture, it takes it as command and transfers the control to image processing unit. The image processing unit performs the processing and sends the information to decision making unit. Decision making unit will ultimately send the command to the universal remote controller for controlling various white goods like refrigerator, washing machine, air conditioner, curtains and dish washer etc. The use of gestures makes the system more user-friendly and natural as it complies with the basic human instincts to gesticulate when an action is to be performed.