

Now, an intelligent system to help the elderly avoid forgetting everyday tasks

Published on : Friday 28 Aug 2009

10:38

- by ANI

50 Hotels in Granada

Book your hotel in Granada online. Find your hotel on a city map!

www.Booking.com/Granada

Sensors

Displacement rotary pressure temp. inclination acceleration vibration

www.feteriscomponents.com

Enterprise-class RFID

Wire-Free Asset Tracking and Environmental Monitoring

www.RFcode.com



0 tweets

Washington, August 28 - ANI: Scientists at the University of Granada (UGR) have announced the creation of a system that uses [Artificial Intelligence](#) techniques to help elderly people, or those with [special needs](#), avoid forgetting certain everyday tasks.

tweet

The researchers have revealed that their system uses sensors distributed in the environment to detect peoples actions, and mobile devices to remind them.

Suppose, say the researchers, an elderly lady who is about to go to bed goes into her room, sits down on the bed, takes off her slippers, and turns off the light.

According to them, before she gets into bed, a small alarm will go off, and a mobile device will remind her that she has forgotten to take her tablets.

"It is a prototype which, in a non-intrusive manner, facilitates the control of the activity of people with special needs and increases their independence," said Maria Ros Izquierdo, from the Higher [Technical School](#) of Computer Engineering of the UGR.

The system recognizes the everyday actions of the users by means of [Radio Frequency Identification](#) (RFID) labels. These labels are discreetly placed on the objects that the individuals touch most often, in such a way that, when they do so, a signal is sent to a computer or mobile device situated in the house itself or at an assistance centre some distance away.

To compile a list of actionssuch as remembering to take the keys or the mobile phone before leaving homethe activities of the people are assessed with Artificial Intelligence techniques.

"It is not necessary to use cameras or microphones, and the devices which are used do not entail any technological complications for users, nor do they modify their daily routines," said Ros.

To evaluate the novel system, the university team have also designed an intelligent space called Tagged World, which simulates the rooms of a house, with sensors embedded in the environment helping to recognize the behaviour of its occupants.

The researchers monitored each user so as to obtain an individualized database. They later verified with a test the reliability of the system and the degree of intrusion felt by the participants.

"The system does not modify the life of the users, but does positively modify that of the people who look after them," indicated Ros, who recalled that elderly people or those with special needs often reject the aid of others and demand more independence.

The researcher believes that the new system may help to achieve this objective.

A research article describing the new system has been published in the [Expert Systems](#) with Applications magazine. - ANI

[Email this](#) • [Digg This!](#) • [Share on Facebook](#) • [Discuss on Newsvine](#) • [Stumble It!](#) • [Add to Mixx!](#) • [Twit This!](#) • [Submit to Reddit](#) • [Slashdot Bookmark This](#) • [Add to BlinkList](#) • [Fark It](#) • [Furl It!](#) • [Add to del.icio.us](#)

Next Story : [Marijuana discovered at MJ's house: Warrants](#)
Previous Story : [Mirren to star in big-screen remake of Graham Greene's novel Brighton Rock](#)

Tags : [mobile](#), [ros](#), [researchers](#), [bed](#), [elderly users](#), [modify](#)

Explore!

Search

Email Subscription

Enter your email address:

Subscribe

Delivered by [FeedBurner](#)



Poll

Maharashtra is facing water and electricity problems, farmers are committing suicide, food and cost of living is increasing and in such a situation do you think it is right for the government to spend 350 cr to erect a statue of Shivaji in the Arabian Sea?

- ☐ Yes
- ☐ No
- ☐ cant say

Vote

Total votes: 11 [View results](#)

Discussions

Little About Discussions, Get Involved!

Maharashtra also seems to be following the path of Mayawati. The Maharashtra government will be spending Rs. 350 crore on the statue of shivaji in the Arabian Sea. India is already facing many natura...
(1 involved) [Speak Out](#)

Converting you car to LPG/CNG? Share tips, suggestions, recommendations, mileage, safety and any other issues....
(4 involved) [Speak Out](#)

Did the Indian government made a wrong decision by not including the private sectors in the fight against H1N1?...
(5 involved) [Speak Out](#)