

SESSION 3.4 - DISTRIBUTED ICT FOR HEALTH AND WELLNESS

Invited speech - SMART DEVICES FOR HEALTH AND AAL IN THE NEW CONCEPT OF SMART LIVING

Social changes and needs, demographic change and an aging population, the need to improve the quality of life and well being of citizens as well as environmental sustainability require a redesign and a radical transformation of living conditions - urban space, domestic space, work environments, mobility, accessibility of services, welfare - according to a user-centric approach.

In this context, "Smart Living Technologies" aims to make all the environments in which people spend their time, be it business, social, and at home, etc., more adapted to the needs of those persons, whether they are in good physical condition in terms of frailty and disability, disease and social exclusion, in different age groups (children, adults or elderly people, in poor health, etc., ...).

In particular, this work refers to the use of Key Enabling Technologies and Smart System Integration for the development of advanced technological solutions for the realization of products (sensors, devices, etc.) and services which, according to a pattern of "Ambient Assisted Living" and "Ambient Intelligence", enable to redesign the sense of "Smart Living" to ensure inclusion, safety, welfare, comfort, care, health care, environmental sustainability.

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Dr. Pietro Siciliano received his degree in physics in 1985 from the University of Lecce. He took the Ph.D. in Physics in 1989 at the University of Bari. He is currently a Director of Research at the Institute for Microelectronics and Microsystems (IMM-CNR) at CNR in Lecce, where he has been working from many years in the field of Sensors, MEMS, Microsystems, being in charge of the Sensors and Microsystems group. He is author of about 400 scientific papers. Dr. Siciliano is referee and member of the advisory board of international journals. He has been responsible for several national and international projects at IMM-CNR. He is member of the Steering Committee of AISEM, the Italian Association on Sensors and Microsystems. He has been chairman and member of the organising committee of international Conferences and School in Sensors and Microsystems area. He is President of INNOVAAL scarl, the Technological District on Active & Assisted Living, and President of the Italian Cluster on "Smart Living Technologies".