

# ACTIVE & HEALTHY AGEING, WELL-BEING AND SMART LIVING: CHALLENGES AND ENABLING TECHNOLOGY

**PHD SUMMER SCHOOL 2022**

**JUNE 13, 15, 17, 20, 22**  
**VIRTUAL EVENT**

## EVENT OVERVIEW

Ageing is a global phenomenon which is pushing the scientific community toward the development of innovative solutions in the context of Well & Active Ageing. World Health Organization defines healthy ageing as "the process of developing and maintaining the functional ability that enables wellbeing in older age". Functional ability is about having the capabilities that enable all people to be and do what they have reason to value.

Functional ability consists of the intrinsic capacity of the individual, relevant environmental characteristics and the interaction between them.

Technologies and related services represent an important part of the environmental component of the healthy ageing.

This School on "Active and Healthy Ageing, Well Being and Smart Living: challenges and enabling technology" focuses the above subject under different perspectives.

As first, the impact of technologies on the society will be focused on the user perspective showing the role of digital tools for citizen empowerment and person-centered care which are of high relevance for active and healthy ageing.

Challenging and hot topics related to technological developments will be also addressed, such as sensors and multi-sensor systems, robotics and advanced signal processing and data handling.

The third addressed sector is related to architectural aspects in the design of user-centered environments and infrastructures.

The 2022 school is organized through remote sessions.

## ORGANIZING COMMITTEE

BRUNO ANDÒ UNIVERSITÀ DEGLI STUDI DI CATANIA  
ALESSANDRO LEONE NATIONAL RESEARCH COUNCIL  
ANDREA MONTERIÙ UNIVERSITÀ POLITECNICA DELLE MARCHE  
LORENA ROSSI NATIONAL INSTITUTE OF HEALTH AND SCIENCES ON AGEING

## LECTURES

**13**  
**JUNE**

**PRESENTATION OF THE PHD SUMMER SCHOOL**  
*Pietro Aleardo Siciliano (CNR IMM - ITALY)*

**THE GERIATRIC PATIENT: CHARACTERISTICS AND NEEDS**  
*Cosimo Tuena (ISTITUTO AUXOLOGICO ITALIANO - IRCCS - ITALY)*

**15**  
**JUNE**

**CODESIGN FOR ACTIVE LIVING: EXPLORING RESEARCH AND DESIGN MATERIALS WITH ELDERLY PEOPLE**  
*Alessandro Pollini (BSD DESIGN - ITALY)*

**BIOROBOTICS RESEARCH TOPICS FOR HEALTHY LIVING AND ACTIVE AGEING**  
*Filippo Cavallo (UNIVERSITÀ DI FIRENZE - ITALY)*

**17**  
**JUNE**

**EXAMPLES OF APPLICATIONS OF AAL SOLUTIONS IN THE ACTIVITY OF AN AT CENTER**  
*Massimiliano Malavasi (AIAS BOLOGNA - ITALY)*

**INTEGRATED SOLUTIONS OF ASSISTIVE TECHNOLOGY**  
*Bruno Andò (UNIVERSITÀ DI CATANIA - ITALY)*

**20**  
**JUNE**

**AMBIENT SENSING OF VITAL SIGNS AND WELLBEING THROUGH SENSORS AND SIGNAL PROCESSING**  
*Bruce Wallace (CARLETON UNIVERSITY - CANADA)*

**DESIGN FROM RESEARCH TO CARE: STATE OF THE ART AND CHALLENGES**  
*Niccolò Casiddu, Claudia Porfirione, Emanuele Micheli, Matteo Valoriani (UNIVERSITÀ DI GENOVA - ITALY)*

**22**  
**JUNE**

**FEASIBILITY, SAFETY AND PREDICTORS OF EFFECTIVENESS OF TELEMONITORING AND TELEREHABILITATION FOR PEOPLE WITH CHRONIC DISABILITY**  
*Maria Gabriella Ceravolo (UNIVERSITÀ POLITECNICA DELLE MARCHE - ITALY)*

**INTELLIGENT SYSTEMS AND ASSISTIVE TECHNOLOGIES: THE ROLE OF BIOENGINEERING FOR ASSESSMENT, TREATMENT AND REHABILITATION**  
*Vitoantonio Bevilacqua (POLITECNICO DI BARI - ITALY)*

We provide cutting-edge education for free and, even better in case you wish, you can get CME (Continuing Medical Education) Credits.

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