



## INVITED SESSION SUMMARY

**Title of Session:**

Innovative Supportive Systems for the Smart, Healthy and Active Ageing at Home and in Local Community Environments (SSHLC).

**Name, Title and Affiliation of Chair:**

Dr. Eduardo Carrasco, Senior Researcher in eHealth and Assisted Living, Vicomtech.  
Dr. María José Santofimia, Universidad de Castilla-La Mancha.  
Dr. Juan Carlos López López

**Details of Session (including aim and scope):**

**Scope**

The world's population is ageing at a fast pace and healthy ageing is becoming a top political priority globally. In line with the recent proposal titled 'Decade for Healthy Ageing' (2020–2030) endorsed by the World Health Organization, urgent action is needed from society in order to tackle the core demands of the population of older people. These demands include the promotion of living long and healthy lives, fostering social connectedness and participation in one's community, preventing chronic conditions, collecting and sharing healthy-ageing data, integrating and closely coordinating health care services, and providing long-term care services in a cost-effective and sustainable manner.

In this scope, due to the future lack of carers and to the need of ensuring the sustainability of healthcare systems, there exists a great need for developing innovative support systems specifically for older adults that foster healthy and active ageing at home as well as in their local communities. Recent advances in several technical domains such as artificial intelligence, big data architectures, IoT, cybersecurity, and others are paving the way to mass adoption of personalized and user-centred monitoring or supportive interventions aiming to allow older adults to live independently as well as remain physically active and socially engaged for extended periods of time.

**Aim**

The aim of this session is to host a multi-disciplinary group of experts and interested non-experts consisting of researchers and engineers, practitioners from the health and assistive domain, managers, policymakers and students to promote the foundation for active and healthy ageing, mainly through approaches that leverage personalized care for people as they age.

This invited session will consist of a presentation session of 6 to 12 or more papers organised as a half- or full-day mini-conference and will discuss research on innovative support systems as well as innovative approaches for personalised care based on technology for older adults. Topics of interest include but are not limited to research on digital solutions specifically targeting autonomy, independence, health, rehabilitation, wellbeing, and social connectedness of people as they age. Experiences of user acceptance and technological validation of new supportive digital solutions are also welcome.

Contributions are sought for a wide range of applicable topics including the following:

- Active ageing & ageing in place
- Smart assistive technologies
- Innovative physical rehabilitation approaches
- Assistive robotics systems
- Artificial intelligence for prevention
- Early risk assessment systems

- Unobtrusive anomaly detection
- Early detection in physical and cognitive decline
- Digital Assistants for supporting the activities of daily living
- Computer vision-based care services
- Innovative solutions for caring for older adults with neurodegenerative diseases
- Medicine control and optimization tools
- Community-supported independent and autonomous living
- Innovative solutions for psycho-social and cognitive stimulation
- Integrated orchestration of care
- Smart living environments inside and outside of the home
- Cross-border healthcare data exchange
- Social connectedness promotion tools
- Validation of innovative digital solutions
- User acceptance, inclusion and societal impact assessment
- User-centered support and personalization
- Cybersecurity & new data governance models
- Wellbeing assessment

### Submission information

Please follow the instructions in the following link:  
<http://kes2021.kesinternational.org/submission.php>

### Proceedings

The proceedings are published in Elsevier's [Procedia Computer Science](#) open access journal, available in ScienceDirect and submitted to be indexed/abstracted in CPCI (ISI conferences and part of Web of Science), Engineering Index, and Scopus.

### Dates & Deadlines

Submission of Papers: 1 April 2021  
 Notification of Acceptance: 30 April 2021  
 Upload of Final Publication Files: 28 May 2021

### Venue

The invited session will be hosted by the KES2021 conference, between 8-10 September 2021 in the Radisson Blu, Szczecin, Poland.

### Main Contributing Researchers / Research Centres (tentative, if known at this stage):

We look forward to receiving contributions from relevant international initiatives in the field such as from the members of the Health and Care Cluster H2020 Projects formed by [SMART4HEALTH](#), [ACTIVAGE](#), [FAITH](#), [PHARAON](#), [SMARTBEAR](#), [ADLIFE](#), [GATE KEEPER](#), [InteropEHRate](#) & [SHAPES](#).

### Website URL of Call for Papers:

<http://kes2021.kesinternational.org/cmsISdisplay.php>

### Email & Contact Details:

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