

IEEE International Workshop on Ageing Well and Living Healthy Enabling Technologies: Networking and Sensing (ALIVE)

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Montreal, Canada



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Scope

Our population is getting older. The population of people over 60 years old has more than doubled in 2017, compared to 1980, and the number is expected to double again by 2050, according to the report by the United Nations. These are good news; we are healthier and living longer; however, those numbers are pushing the burdens on already distressed health care systems worldwide. Additionally, our lifestyle has shifted over the years, and we are currently living a more sedentary life, with our work and life habits. All those changes have resulted in an older population, suffering from many disabilities and chronic diseases and disorders.

The traditional healthcare systems cannot satisfy the needs of a continuously growing ageing population, since a huge number of patients must have access to health-care services. In addition, lack of standards in communication interoperability across the eHealth devices, heterogeneity of the data from the healthcare sector and the trust issues pertaining to privacy and security pose significant obstacles, which must be tackled in the near future.

ALIVE workshop solicit high-quality papers, bringing together researchers from academia and industry into a common platform to discuss the current state-of-the-art, future, and innovative solutions of eHealth, specifically targeting the wellbeing of older generation (senior citizens), enabling them to live independently at the comfort of their homes, while being as autonomous as possible to live a complete fulfilling life. The ALIVE workshop is planning to discuss new innovative solutions that target the specific 2030 sustainable goal of UN: "ensuring healthy lives and promote well-being for all at all ages".

ALIVE workshop invites original and breakthrough works in the field of eHealth, targeting solutions aimed at enhancing the life quality of older population, through enabling them to live independently, with continuous close non-invasive monitoring of their health issues and considering each gender specific needs.

Topics

We seek original completed and unpublished work not currently under review by any other journal/magazine/conference. Topics of interest include, but are not limited to:

- Sensors for smart eHealth devices
- Wearable and medical sensors for ageing people
- New platforms and solutions for remote eHealth patients
- Non-invasive solutions for remote monitoring of elder population
- IoT system architectures for healthcare and elderly
- eHealth Challenges for elder population
- Ambient assisted living IoT for active and healthy aging
- Fog-cloud architectures and edge computing for IoT-eHealth solutions
- Interoperability and standards for IoT-eHealth
- Machine learning and artificial intelligence in eHealth
- AI and ML towards inferring activities of monitored elder population
- Digital signal processing (DSP) algorithms towards early diagnosis
- Ubiquitous computing towards pervasive healthcare
- Implantable IoT devices
- eHealth-oriented software architectures
- Privacy and security issues of eHealth and remote monitoring of seniors and eHealth
- Context awareness and autonomous computing for Ambient Assisted Living
- Future technologies for the health of the brain
- In-body medical sensors communications

Paper Submission

The workshop accepts only novel, previously unpublished papers. The page length limit for all initial submissions for review is SIX (6) printed pages (10-point font) and must be written in English. All final submissions of accepted papers must be written in English with a maximum paper length of six (6) printed pages (10-point font) including figures. No more than one (1) additional printed page (10-point font) may be included in final submissions and the extra page (the 7th page) will incur an over length page charge of USD100. For more information, please see IEEE ICC 2021 official website: <https://icc2021.ieee-icc.org/authors>.

Important Dates

- ❖ Paper submission deadline: **January 20, 2021**
- ❖ Notification of acceptance: February 20, 2021
- ❖ Camera-ready papers: March 1, 2021

Submission link

<https://edas.info/N27513>

Webpage link

<https://icc2021.ieee-icc.org/workshop/ws-9-workshop-ageing-well-and-living-healthy-enabling-technologies-networking-and-sensing>