Special Session on

Artificial intelligence and digital tools for collaborative healthcare networks 5.0

Scope

In a connected world characterized by a people-centric and smart society (Society 5.0), the improvement of healthcare industry is a major issue in several countries, especially after the peak of COVID-19 pandemic. Both stakeholders’ networks and smart solutions are critical levers to guarantee an efficient and effective support to the enhancement of people’s health conditions. The rise of Internet of Things (IoT), Ambient Intelligence, cobots and other smart paradigms are driving a revolution in healthcare value chains, with the higher computing and storage capabilities (e.g. through cloud computing), availability of data collection points (e.g. through IoT and XR applications), elaboration potentials (e.g. through AI algorithms). The digital transformation of decision-making processes in healthcare facilities has to be driven also by a systematic involvement of multiple kinds of stakeholders, both from public and private sectors, into collaborative networks.

In this sense, collaborative and multidisciplinary research can actively support clinical personnel, caregivers, and people in effectively tackling the issues and opportunities of Society 5.0.

This Special Session welcomes theoretical contributions and empirical studies that advance our understanding and provide innovative insights on the role of digital tools and collaborative networks in healthcare domain, in particular for enhancing people’s health conditions and overcoming problems related to ageing, COVID-19 recovery, pharmaceutical and vaccines logistics, specialized services (e.g. nutrition consultancy), ergonomics in workplaces with Ambient Assisted Working (AAW), remote support for Ambient Assisted Living (AAL).

Session Organizers
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Topics/ Keywords
- AI-based applications supporting collaborative decision-making in healthcare networks and specific contexts as AAL and AAW
- IoT-based applications supporting collaborative data sharing and connectivity in healthcare services and solutions
- Automation technologies (e.g. cobots) and digital-physical interface technologies (e.g. XR technologies) supporting personnel in delivering healthcare services and specific tasks in health-related facilities
- Design, implementation and sustainment of collaborative platforms and digital applications for specific stakeholders in healthcare (e.g. patient segments, public administrations, hospital, clinics, etc.)
- New collaborative business models and product-service solutions driven by digitalization in healthcare industry

Submission procedure
Special sessions are included in the main Conference and follow the same reviewing process.
Short abstracts submission (100-150 words): March, 19th, 2022
Full papers submission: April, 16th, 2022
Acceptance Notice: May, 28th, 2022
Final version Submission: Jun 11th, 2022

Acceptance of papers is based on the full paper (Technological development and case application papers up to 8 pages and Foundational Research papers up to 12 pages). Each paper will be evaluated by three members of the International Program Committee.

When submitting on the web site, you have to indicate the name of the special session. Submission procedure via Easychair available on: http://www.pro-ve.org, with copy by email to the chairs of the special session.