

Call for Contributions

1. Inform the Chair

2. Submission URL:

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ACHI+2024+Special>

Please select Track Preference as **HEART**

3. Note: *For 2024, all events will be held in a hybrid mode: on site or virtual choices (live, prerecorded videos, voiced presentation slides, and .pdf slides). We hope for better times allowing us to return to the traditional on site scientific events. However, we are ready to adapt any which way the conditions dictate.*

Special track

HEART: Healthcare Evolution through Assistive and Rehabilitation Robotic Technologies

Chair

Dr Vignesh Velmurugan, Robotics Research Group, University of Hertfordshire, UK
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along with

ACHI 2024

The Seventeenth International Conference on Advances in Computer-Human Interactions

<https://www.iaria.org/conferences2024/ACHI24.html>

May 26-30, 2024 - Barcelona, Spain

In an era where the synergy of healthcare and cutting-edge robotics is unravelling unprecedented potential, the special session "HEART: Healthcare Evolutions through Assistive and Rehabilitation robotic Technologies" envisions a collaborative space dedicated to navigating the heart of the swiftly evolving landscape of robotics, with a specific focus on the wellbeing of elderly and individuals in recovery. Through a comprehensive discussion of the latest research in assistive and rehabilitation robotics, as well as Artificial Intelligence, this special track aims to shed light on practical pathways for healthcare enhancement.

Beyond a focus on technological advancement, HEART intends to facilitate a subtle shift in how we perceive assistive robotic technologies. Covering a spectrum of topics, from remote activity monitoring to providing emotional support and analyzing the barriers to translating laboratory prototypes into real-world applications, the session embraces a holistic perspective of robotic technology aimed at enriching the lives of patients and caregivers while equipping healthcare professionals with advanced tools. Additionally, the session will delve into the nuanced exploration of the benefits and implications of these technologies, particularly for individuals in recovery who necessitate both physical support and attention to emotional well-being. This approach aims to foster a more holistic understanding of the role technology can play at the HEART of enhancing the quality of life within assisted living and rehabilitation settings.

We invite multi-disciplinary research contributions that strive to understand and address the challenges involved in this field through innovation.

Topics include, but not limited to

- Rehabilitation robotics – stroke, spinal cord injuries, etc.
- Neurorobotics

- Wearable technologies
- Human-robot interaction in healthcare
- Assistive robotics for elderly care
- Companion robots
- Home-based robots
- Activity monitoring/recognition
- Remote assessment
- Usability evaluations
- Ethical and privacy considerations

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaaria.org]
- Presentations: slide only [slide-deck posted on www.iaaria.org]
- Demos: two pages [posted on www.iaaria.org]

Important Datelines

Inform the Chairs: As soon as you decide to contribute

Submission: April 10

Notification: April 28

Registration: May 8

Camera-ready: May 8

Note: The submission deadline is somewhat flexible, providing arrangements are made ahead of time with the chair.

Paper Format

- See: <http://www.iaaria.org/format.html>

- Before submission, please check and comply with the editorial rules: <http://www.iaaria.org/editorialrules.html>

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaariajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

<https://www.iaariasubmit.org/conferences/submit/newcontribution.php?event=ACHI+2024+Special>

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Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.

- Registration fees are available at <http://www.iaaria.org/registration.html>

Contact

Chair

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