

## 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 **XRIC**

**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

## **XRIC: eXtended Reality Intervention in HealthCare**

### **Chair**

Dr. Alicia Carrion-Plaza, Research Fellow at Centre for Culture, Media and Society, College of Social Sciences and Arts, Sheffield Hallam University, UK

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along with

## **ACHI 2024, The Seventeenth International Conference on Advances in Computer-Human Interactions**

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

May 26-30, 2024 - Barcelona, Spain

Extended Reality (XR) is revolutionising everyday user experiences and transforming diverse industry segments, including healthcare. XR term encompasses Augmented Reality (AR), Virtual Reality (VR), Mixed Reality (MR) and everything in between real-and-virtual collaborative environments and human-machine interactions.

The eXtended Reality Intervention in healthCare special track at ACHI 2024 represents an opportunity to submit and publish original scientific results on novel systems and interventions for the treatment and rehabilitation of physical and mental pathologies. These can be initial play tests with patients or more advanced clinical trials.

Specifically welcome papers that contain original and mature research to address applications of XR to motor disabilities, physical rehabilitation, post-surgery recovery, prosthetic training, pain and anxiety management and cognitive impairments. A special focus is made to the adaptiveness of digital solutions to participants profile and to contextual settings.

### **Topics include, but not limited to**

- Innovative and emerging trends in XR systems for the healthcare sector: the growth of XR in the healthcare sphere has the potential to transform the delivery of medical services. Exploring advancements in hardware and software design to XR to improve the recovery and management of some clinical condition.
- XR usability in clinical setting: exploring how XR systems and interfaces enhance user experience and interaction in immersive environments.

- Accessibility in healthcare XR: examining strategies and best practices for making XR technologies accessible to patient with diverse abilities, facing difference pathologies, including patients and therapist perspectives.
- XR content creation: delving into the latest trends in XR content creation, including storytelling and artistic expression, and how these are shaping user experiences and expectations exploring the important of the enjoyment to create engagement.
- Ethical consideration of XR in the healthcare sector: discussions around the ethical consideration in the implication of patients, such us children in the studies. Including issues related to privacy, data security, and the long-term effects of immersive technologies on human behaviour and society.
- Social and economic impact of XR in the healthcare sector: cost-effectiveness analysis to discuss the potential impact of XR in transforming the healthcare industry, as well as its use cases, challenges, to discuss the importance of being able to demonstrate that new interventions will bring benefits to patients without substantial additional costs.

### **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](http://www.iaaria.org)]
- Presentations: slide only [slide-deck posted on [www.iaaria.org](http://www.iaaria.org)]
- Demos: two pages [posted on [www.iaaria.org](http://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**

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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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