

CONFERENCE WEBSITE: <https://metroxraine.org/thematic-session-7>

## | About the Conference

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<br>Call for Papers - Thematic Session on: "Shaping the Future of Interaction: Integrating AI, Human Factors, and Immersive Technologies in HCI"  
<https://metroxraine.org/thematic-session-7>

2025 IEEE International Conference on Metrology for eXtended Reality, **Artificial Intelligence**, and Neural **Engineering**" class="text-blue-600 hover:underline">engineering (IEEE MetroXRaine 2025)  
<https://metroxraine.org/>

October 22-24, 2025 - Ancona, Italy.  
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### THEMATIC SESSION DESCRIPTION

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Nowadays the integration of **artificial intelligence** (AI) with modern **Human-computer interaction** (HCI) technologies and eXtended Reality (**XR**), offers unprecedented opportunities for innovation. This thematic session aims to explore how AI while acting as a catalyst, interacts with broader HCI methods to enhance user experiences, foster engagement, and address critical Human Factors. The session will examine the synergies between XR, AI-driven personalization, and adaptive **systems**, alongside non-AI-based approaches to ensure inclusivity. By addressing measurement techniques and methodologies, the session will highlight how HCI researchers and practitioners can advance the field through rigorous evaluation strategies that support various applications in different immersive environments scenarios such as Rehabilitation, Special **education**, Cultural Heritage, and emerging platforms like Metaverse. This dialogue aims to create a roadmap for designing, implementing, and assessing next-generation HCI systems that balance technological possibilities with user-centric considerations.

The authors of the paper selected as the "Best Paper" at this session will receive an invitation to submit an extended version of their work to IEEE Computer Graphics & Applications.

More information can be found here: <https://metroxraine.org/thematic-session-7>

### TOPICS

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The list of topics includes (but it is not limited to) the following:

#### 📅 Important Dates

**OCT 22** CONFERENCE DATE  
**October 22-24, 2025**

- AI-Driven Personalization in **Human-Computer Interaction**.
- Measuring User Experience (UX) in Immersive Environments and AI-enhanced Systems.
- Cognitive Load Evaluation in Augmented HCI Systems.
- Human Factors in Immersive Technologies: Metrological Approaches.
- Human Factors in the Design of AI-Powered Interfaces.
- Evaluation Frameworks for Usability Assessment.
- Real-Time Feedback Systems in Human-AI Interaction.
- Emotional, Cognitive and Behavioral Responses in Immersive **human-computer interaction**.
- Measuring Trust, Ethics, and Acceptance in AI-Augmented Interaction.
- Multimodal Interaction and Performance Measurement.
- Designing for **Accessibility** in Next-Generation HCI Systems.
- Data-Driven Insights for HCI Design and Optimization.
- Metrics and Validation Protocols in AI-Enhanced HCI.
- Adaptive Interfaces in XR.
- Next-Generation Tools for Immersive UX Design and Testing.
- Social Interactions and Collaboration in AI-enhanced XR.

#### IMPORTANT DATES

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Short Abstract Submission Deadline: March 15, 2025.

Full Paper Submission Deadline: May 15, 2025.

Full Paper Acceptance Notification: June 15, 2025

Final Paper Submission Deadline: July 31, 2025

#### SUBMISSION AND DECISIONS

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Authors should prepare an Abstract (1 - 2 pages) that clearly indicates the originality of the contribution and the relevance of the work. The Abstract should include the title of the paper, names and affiliations of the authors, an abstract, keywords, an introduction describing the nature of the problem, a description of the contribution, the results achieved and their applicability.

As an alternative to the traditional abstract, it is possible to submit a Graphical Abstract. Read the paragraph below for further information.

When the first review process has been completed, authors receive a notification of either acceptance or rejection of the submission. If the abstract has been accepted, the authors can prepare a full paper.

The format for the full paper is identical to the format for the abstract except for the number of pages: the full paper has a required minimum length of five (5) pages and a maximum of six (6) pages.

Full Papers will be reviewed by the Technical Program Committee. All contributions will be peer-reviewed and acceptance will be based on quality, originality and relevance. Authors of accepted full papers must submit the final paper version according to the deadline, register for the workshop, and attend to present their papers. The maximum length for final papers is 6 pages.

More information can be found here: <https://metroxraine.org/initial-author-instructions>.

## CONFERENCE PROCEEDINGS

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All contributions will be peer-reviewed, and acceptance will be based on quality, originality, and relevance. Accepted papers will be submitted for inclusion into the IEEE Xplore Digital Library.

## ORGANIZERS

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For any questions related to the thematic session, please feel free to contact us via email.

### TOPICS OF INTEREST

3 topics

Research papers are invited in, but not limited to, the following areas:

Uncategorized

Artificial Intelligence & Machine Learning

Virtual & Augmented Reality