

Joint Postproceedings for the Workshops and Tutorials at the Third International Conference on Hybrid Human-Artificial Intelligence (HHAI) (preface)

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Abstract

This preface briefly presents the organisation and outcomes of the workshop and tutorial days of the Third International Conference on Hybrid Human-Artificial Intelligence (HHAI) 2024, introducing the conference topic and giving key highlights of the specifics of the proceedings.

Keywords

hybrid intelligence, hybrid human artificial intelligence

The Third International Conference on Hybrid Human-Artificial Intelligence (HHAI) 2024 organised a pre-conference workshop and tutorial track providing a platform for discussing a topic related to Hybrid Human-Artificial Intelligence with an audience specifically interested in that topic in an informal setting (compared to the main conference). The aim was to foster cross-disciplinary interaction, scientific discourse, and creative and critical reflection, rather than just being mini-conferences. Organisers were offered flexibility on formats that best suit the goals of their event.

The workshops were sought through an open call for proposals, and selected based on their relevance to HHAI, scientific quality, organization, and diversity and inclusion. After deliberation, we accepted all but one proposal giving us 7 tutorials, 1 creative event and 9 workshops.

Tutorials

- **Interactive Concept-based Search**
Amiram Moshaiov
- **Human-AI mutual promotion for emotion and cognition understanding**
Haoyu Chen, Andy Nguyen, Yang Liu and Sanna Järvelä

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- **An Introduction to Computational Argumentation**
Elfia Bezou-Vrakatseli, Daphne Odekerken and Andreas Xydis
- **Collaborative HAI-Learning through Conceptual Exploration**
Bernhard Ganter, Tom Hanika, Johannes Hirth and Sergei Obiedkov
- **Knowledge Engineering for Hybrid Intelligence (KE4HI)**
Ilaria Tiddi, Victor de Boer and Stefan Schlobach
- **Contextualizing and Executing Robot Manipulation Plans Using Web Knowledge**
Michael Beetz, Philipp Cimiano, Michaela Kümpel, Jan-Philipp Töberg and Ilaria Tiddi, Enrico Motta
- **Introduction to Human Hybrid AI**
John Shawe-Taylor, Frank van Harmelen, Virginia Dignum, Frank Dignum

Creative Events

- **The What-is-HI Competition**
Davide Dell'Anna, Bernd Dudzik, Davide Grossi, Catholijn Jonker, Pradeep Kumar Murukannaiah and Pinar Yolum

Workshops

- **AI in Africa and SDGs: Bridging Networks and Fostering Climate Action**
John Shawe-Taylor, Davor Orlic and Essa Mohamedali
- **Stimulating Cognitive Engagement in Hybrid Decision-making: Friction, Reliance and Biases**
Chiara Natali, Brett Frischmann and Federico Cabitza
- **Hybrid Intelligence for Health Care**
Chenxu Hao, Mark Neerincx, Myrthe Tielman, Jasper van der Waa and Maaïke de Boer
- **Imagine the AI Landscape after the AI Act**
Francesca Pratesi, Desara Dushi and Francesca Naretto
- **Communication in Human-AI Interaction: A Multi-Perspective Approach (CHAI)**
Jennifer Renoux, Jasmin Grosinger, Marta Romeo, Kiran M. Sabu, Kim Baraka and Victor Kaptelinin
- **MULTITRUST – Multidisciplinary Perspectives on Human-AI Team Trust**
Myrthe Tielman, Morgan Bailey, Francesco Frattolillo and Andre Meyer-Vital
- **Workshop on Responsible Applied Artificial Intelligence (RAAIT)**
Maaïke Harbers, Stefan Leijen, Pascal Wiggers, Marieke Peeters, Saskia Robben, Roland van Dierendonck, Fabian Kok, Sophie Horsman and Tiwánee van der Horst
- **Exploring Tangible AI with Theory Instruments**
Jacob Buur, Mette Gislev Kjærsgaard, Ona Pirol and Jessica Sorenson
- **An Ecology of AI – Reflections for Researchers (2nd Workshop)**
Retno Larasati, Venetia Brown, Tracie Farrell, Soraya Kouadri Mostefaoui and Syed Mustafa Ali

Each workshop solicited papers through an open call for papers and included a program committee for peer-reviewing and selecting the papers.

The workshops were organized as half-day, full-day, or two-day events (10-11 June, 2024) prior to the main conference (12-14 June, 2024). The events took place at the University of Malmö, Malmö, Sweden. The workshops and tutorials were combined with a Doctoral Consortium to form the first HHAI Summer school, offering early career researchers a chance to learn more about their chosen research domain and network with peers and established researchers in the field.

After the event, tutorial and workshop organisers were invited to contribute to these post-proceedings. Participating in the post-proceedings was optional from the start to allow for as much flexibility and creativity as possible.

This volume includes post-conference papers from the following Workshops and Tutorials collocated with the Third International Conference on Hybrid Human-Artificial Intelligence (HHAI) 2024:

- Collaborative HAI-Learning through Conceptual Exploration (Tutorial)
- Stimulating cognitive engagement in hybrid decision-making: friction, reliance and biases
- Hybrid Intelligence for Health Care
- Communication in Human-AI Interaction : A Multi-Perspective Approach (CHAI)
- Imagining the AI Landscape after the AI Act.
- MULTITRUST - Multidisciplinary Perspectives on Human-AI Team Trust
- Responsible Applied Artificial Intelligence (RAAIT)

The papers in this volume are grouped according to the workshop/tutorial in which they were presented. In addition to this preface, there is a preface for each workshop, which provides details on the workshop topics, organization and program committees, and selection procedure.

We thank the organizers and participants of each workshop for stimulating critical and engaging discussions on the emerging scientific discipline of Hybrid Human-Artificial Intelligence. We would also like to thank the HHAI 2024 Organization Committee for supporting the workshops program.

