Preface

Przemysław **Biecek**[1], Slawomir **Nowaczyk**[2], Gitta **Kutyniok**[3] and Luca **Longo**[4,*]

[1]*Warsaw University of Technology*
[2]*Halmstad University*
[3]*LMU Munich*
[4]*Artificial Intelligence and Cognitive Load Research Lab*
[5]*Technological University Dublin*

The 3rd World Conference on eXplainable Artificial Intelligence (xAI-2025) was held from Wednesday, 9th to Friday, 11th of July 2025. On the second and third day of the conference, we had the pleasure of hosting the Late-breaking work, Demos and the Doctoral Consortium tracks.

The Late-breaking work track provided a unique opportunity to share valuable ideas, elicit helpful feedback on early-stage work, and foster discussions and collaborations among colleagues. Late-breaking results are research-in-progress that contain original and unpublished accounts of innovative research ideas, preliminary results, industry showcases, and system prototypes, addressing eXplainable Artificial Intelligence (XAI) theory and practice. In addition, it included recently started research projects or syntheses. Overall, 32 Late-breaking manuscripts were accepted and presented via posters.

The Demo track showcased research prototypes or commercially available products. Demo submissions were based on an implemented and tested xAI-based system that pursues one or more innovative ideas in the interest areas of the conference. Demonstrations are an exciting way to showcase implementations of xAI-based systems and to get valuable feedback from the community. Overall, seven demos were presented with a dedicated stand at the conference.

The Doctoral Consortium track organised within the conference allowed doctoral scholars to explore and develop their research interests under the guidance of distinguished scholars from the field of xAI, who provided constructive feedback and advice. In particular, this forum also allowed PhD scholars to present and discuss their research ideas with experienced scholars in a supportive, formative, and critical environment. The Doctoral Consortium was structured into three thematic sessions, each beginning with a set of four to five short presentations delivered by PhD students. In these talks, the presenters introduced the main ideas behind their doctoral research, outlined their methodological plans, and shared early results or conceptual frameworks. Each presentation was followed by a brief Q&A segment, which allowed the audience — consisting of mentors and peers — to offer feedback, pose clarifying questions, and suggest possible research directions or collaborations. Following each block of presentations, the consortium transitioned into mentoring sessions. In these smaller, more informal group discussions, doctoral students had the opportunity to interact directly with experienced researchers. The conversations were wide-ranging and dynamic, covering such topics as refining research questions, balancing depth and breadth in a dissertation, selecting appropriate venues for publication, and making strategic career decisions. The small-group format enabled a personalised

exchange of ideas and fostered a supportive and intellectually stimulating environment. This way, the DC provided a mechanism to network and build collaborations with other community members and explore career pathways available after completing their PhD degree. Overall, 14 doctoral consortium proposals were accepted and discussed at the conference.

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Przemysław Biecek
Slawomir Nowaczyk
Gitta Kutyniok
Luca Longo
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Acknowledgments

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[1] https://xaiworldconference.com/2025/

- Suzana Alpsancar, Paderborn University
- Weiru Liu, University of Bristol
- Alberto Termine, Dalle Molle Institute for Artificial Intelligence Research
- Nathalie Devillier, aivancity
- Rebecca Eifler, LAAS-CNRS
- Lenka Tětková, Technical University of Denmark
- Marta Caro-Martínez, Universidad Complutense de Madrid
- Henning Müller, HES-SO
- Eduard Barbu, University of Tartu
- Mark Towers, University of Southampton
- Lorenz Linhardt, TU Berlin
- Hubert Baniecki, University of Warsaw
- Eduardo Paluzo-Hidalgo, Universidad Loyola Andalucía
- Hanna Abi Akl, Data ScienceTech Institute
- André Artelt, Bielefeld University

Doctoral consortium committee:

- Albert Bifet, University of Waikato
- Annalisa Appice, University of Bari
- Grzegorz Nalepa, Jagiellonian University
- Jerzy Stefanowski, Poznan University of Technology
- Joao Gama, University of Porto
- Marvin Wrigh, University of Bremen
- Przemyslaw Biecek, Warsaw University of Technology
- Jan van Rijn, Leiden University
- Rita P. Ribeiro, University of Porto
- Salvatore Rinzivillo, Consiglio Nazionale delle Ricerche
- Slawomir Nowaczyk, Halmstad University

Doctoral consortium mentors:

- Riccardo Guidotti, University of Pisa
- Sebastian Lapuschkin, Fraunhofer Heinrich Hertz Institute
- Mehmet Kurt, University of Washington
- Tuwe Löfström, Jönköping University
- Grégoire Montavon, Charité Berlin University of Medicine
- Jörg Schlötterer, Marburg University
- Christin Seifert, Marburg University
- Gunnar Stevens, University of Siegen
- Zita Vale, Polytechnic of Porto