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The file accompanying this record contains the preface for the proceedings. The full proceedings are freely available on the publisher's website: <https://ceur-ws.org/Vol-2894/>

Proceedings of the SICSA Workshop on eXplainable Artificial Intelligence: SICSA XAI 21

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Preface

The use of AI and ML systems is increasingly becoming more commonplace in everyday life. In everything from recommender systems for media streaming services to machine vision for clinical decision support, intelligent systems are supporting both the personal and professional spheres of our society. However explaining the outcomes and decision-making of these systems remains a challenge. As the prevalence of AI grows in our society, so too does the complexity and expectation surrounding the ability of autonomous models to explain their actions.

Regulations increasingly support users rights to fair and transparent processing in automated decision-making systems. This can be difficult when the latest trends in data-driven ML systems, such as deep learning architectures, tend to be black-boxes with opaque decision-making processes. Furthermore, the need for accountability means that pipeline, ensemble and multi-agent systems may require complex combinations of explanations before being understandable to their target audience. Beyond the models themselves, designing explainer algorithms for users remains a challenge due to the highly subjective nature of the explanation itself.

The Event

The SICSA Workshop 2021 was designed to present a forum for the dissemination of ideas on domains relating to the explainability of AI and ML methods. The event was organised into several themed sessions.

- **Session 1** - Applying and Evaluating Explanations
- **Session 2** - Roles within an XAI System and Accountability
- **Session 3** - Searching for Explanations

The SICSA XAI Workshop 2021 was an incredible success. We were proud to welcome 49 attendees from a mix of industrial organisations and academic institutions across Europe. A total of 13 papers were submitted for peer review by the programme committee, of which 12 were accepted and presented during the workshop (10 short papers and 2 position papers). Of the presented papers, we share 11 in these proceedings.

The workshop featured an invited talk from Professor Belén Díaz-Agudo of Universidad Complutense de Madrid. She presented an examination of the relationship between Case-Based Reasoning and XAI and discussed how this had led to the formation of the iSee project to share explanation experiences.

Organising Committee

This workshop was only possible through the hard work and dedication of a number of individuals.

Workshop Chairs

- Dr Kyle Martin
- Prof Nirmalie Wiratunga
- Dr Anjana Wijekoon

Local Organisers

- Anuja Vats (Norwegian University of Science and Technology)
- Martin Fyvie (Robert Gordon University)

Programme Committee

- Ikechukwu Nkisi-Orji (Robert Gordon University)
- Pamela Johnston (Robert Gordon University)
- Chamath Palihawadana (Robert Gordon University)
- Gayani Nanayakkara (Robert Gordon University)
- Jin Zhang (Norwegian University of Science and Technology)
- Nektaria Kaloud (Norwegian University of Science and Technology)

Supporting Organisations

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It has been developed in collaboration between the Robert Gordon University Artificial Intelligence and Reasoning (AIR) research group, and the Norwegian University of Science and Technology Idun research group. This collaboration has been partially supported by NFR 295920 IDUN. The workshop was also supported by the iSee project (a CHIST-ERA project under grant agreement CHIST-ERA-19-XAI-008), a collaboration between Universidad Complutense de Madrid, Robert Gordon University, University College Cork and BT France.

The organising committee would like to thank all of our authors and attendees. Without you, this event could not have happened.