



AICS 2023

The 31st Irish Conference on Artificial Intelligence and Cognitive Science (AICS 2023)

December 7-8th 2023

Atlantic Technological University

www.aics.ie

The 31st Irish Conference on Artificial Intelligence and Cognitive Science (AICS 2023) will be hosted by Atlantic Technological University (ATU) in collaboration with Ulster University. The conference will be held in-person at the Letterkenny campus of ATU Donegal.

With regular conferences dating back to 1988, the AICS Conference is Ireland's primary forum bringing together researchers in the fields of Artificial Intelligence and Cognitive Science. The fields of Artificial Intelligence and Cognitive Science, encompassing areas such as; Data Analytics, Natural Language Processing, Information Retrieval, and Machine Learning, are now at the forefront of Irish computing research and industry.

The AICS 2023 program will include presentations of high-quality theoretical and applied scientific papers and tutorials. Invited talks will describe important topics relevant to the field.

Important Dates

Paper Submission Deadline	24th September 2023
Acceptance Notification	1st November 2023
Camera Ready Submissions	8th November 2023

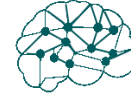
All indicated times are EOD, 23:59 Irish time.

Call for Papers

We invite submissions in the broad areas of Artificial Intelligence and Cognitive Science to communicate the advances and achievements in these fields. Areas of interest include, but are not restricted to:



Artificial Intelligence



Cognitive Science

<ul style="list-style-type: none"> + Machine learning + Automated reasoning + Natural language processing + Computer vision + Robotics + Planning and scheduling + Decision analytics + Moral judgment + Intelligent agents + Concept combination + Knowledge representation + Reasoning + Intelligent systems + Machine translation + Knowledge graphs + Causal inference + Recommender systems + Semantic web/linked data + Computer vision 	<ul style="list-style-type: none"> + Neural networks + Deep learning + Dialogue systems + Opinion mining + Information systems + User Modelling + Visual analytics + Digital twins + Smart environments + Neuro-symbolic integration + Social cognition + Cognitive robotics + Cognitive modelling + Cognitive neuroscience + Embodied and grounded cognition + Creative cognition + Counterfactuals 	<ul style="list-style-type: none"> + Explainability + Cognitive psychology + Cyberpsychology + Neuroeconomics + Neuroethics + Neurolaw + AI and cognition + Cognition and simulation + Argumentation + Human perception + Language + Memory + Attention + Emotion + Fairness/Bias + Interpretability + Transparency + Ethics of AI + Deduction
--	---	---

We seek articles which report on in-use experiences (application, design, engineering, deployment, utility, and challenges) of AI-based and cognitive-based systems.

Length and format

We invite two types of submissions:

- **Full Paper Track:** Full paper submissions should consist of original contributions (describing either fundamental research, interesting applications, in-use experiences, or reviews of the field) not published in other forums. Papers should be no more than 6-8 pages (including references) and these will be oral presentations at conference. Papers over 6 pages will be charged €90 per extra page up to a maximum of two extra pages (8 pages maximum).
- **Short Paper Track:** This track is designed to facilitate students who have recently completed a Master's program or for PhD students. Short paper submissions should consist of original contributions (describing interesting applications or theoretical research) and the first author must be a student. Papers should be a maximum of 4 pages (including references) and these will be poster presentations at conference.

Publication and Submission Instructions for Authors

All accepted Full-paper and Short-paper submissions will be presented at the conference, either orally or as posters, and included in the online conference proceedings. At least one author of each submission will be required to register for, and attend, the conference. All submissions must be made via the [EasyChair system online](#).

Prospective authors are invited to submit their work using the standard IEEE two-column format, including text, figures, and tables. Full papers should be a maximum of 8 pages and Short papers should be a maximum of 4 pages. For full papers over 6 pages, there will be a charge of €90 per extra page up to a maximum of two extra pages (8 pages maximum).

In order to achieve the same appearance for all manuscripts, AICS 2023 requires the usage of the IEEE templates in Microsoft Word (A4) and LaTeX format can be found at IEEE Manuscript Templates for Conference Proceedings.

Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements.

Conference Chairs

Dr Kevin Meehan	Atlantic Technological University (Donegal)	kevin.meehan@atu.ie
Dr Muskaan Singh	Ulster University (Magee)	m.singh@ulster.ac.uk
Dr Karla Muñoz Esquivel	Atlantic Technological University (Donegal)	karla.munozesquivel@atu.ie
Dr Fatemeh Golpayegani	University College Dublin	fatemeh.golpayegani@ucd.ie

Organising Committee

Dr Jennifer Hyndman (Atlantic Technological University)

Professor Michaela Black (Ulster University)

Dr Gerry McWilliams (Atlantic Technological University)

Dr Bryan Gardiner (Ulster University)

Professor Hujun Yin (University of Manchester)

Find out more...

Website <https://www.aics.ie/>

Twitter [@AICSConference](#)

#AICS23