CAMBRIDGE JOURNAL OF ARTIFICIAL INTELLIGENCE

The cover artwork is *User/Chimera* by Clarote and AI4Media. The piece represents the user as a Chimera, a visual metaphor suggested by Kate Crawford, in which the "end-user" also provides valuable feedback, personal data and other invisible, unpaid labour. The illustration brings out the contrast between their multi-dimensionalities and the flat, biased categorisations of the human in inputs and outputs of AI.

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Editorial

A warm welcome to the Cambridge Journal of Artificial Intelligence (CJAI).

AI has become the buzzword of the day, infiltrating every aspect of our lives, from the mundane to the profound. The rapid integration of AI technologies in both public and private sectors reflects a global race to harness its potential while simultaneously mitigating its associated risks. We have seen governments drawing up plans for autonomous vehicles as well as private companies leveraging AI to gain a competitive edge. It is the ever-changing nature and purpose of AI that has led to the creation of our organisation.

At the CJAI, our mission is to bridge the gap between theoretical research and practical application, providing a platform for dialogue and the exploration of strategies that ensure the responsible and beneficial use of AI for all. We recognise that the true value of AI lies not just in revolutionary algorithms and models but in its ability to address real-world problems and improve the human experience. By bringing together perspectives from varied and diverse disciplines, we aim to foster a holistic understanding of AI's impact and emerge as a leading forum for debate, analysis and creativity. We invite you to get involved with our organisation – whether you are a seasoned academic or a curious student, this organisation is for you.

The CJAI team are committed to academic rigour and our review process reflects this. All manuscripts undergo a collaborative double-blind peer review. Each manuscript is assigned to a managing editor and two review editors, who will leave comments whilst maintaining anonymity between the author and editors. All editors that contribute to CJAI have been trained by a Nature Masterclass in scientific peer-reviewing and are registered with an Open Researcher and Contributor ID (ORCID).

I extend a huge thank you to all the editors who have helped make this journal a reality. Without their time, dedication and enthusiasm, this issue would not exist. I would also like to thank Dr.

Kerry McInerney and Dr. Henry Shevlin for their support and insight.

From an interview with Dr. Claire Benn, course leader of a ground-breaking new MPhil at the University of Cambridge, to discussions on the EU AI Act, AI-generated artwork, border AI, medical AI and artificial moral agents, this issue promises to illustrate the numerous forms and potentials AI can fulfil.

We hope you enjoy reading it as much as we have enjoyed putting it together.

With best wishes,

Mahera Sarkar
Founder & Editor-in-Chief

Foreword

I am absolutely delighted to be introducing the inaugural issue of the Cambridge Journal of Artificial Intelligence (CJAI). I hope that this journal will help readers navigate the tense and complex narrative landscape around artificial intelligence (AI), machine learning (ML), and other data-driven technologies. The release of ChatGPT (GPT-4) in November 2022 sparked a widespread public reckoning with the new capabilities of AI-powered technologies. Academic debates over the accuracy and desirability of large language models (LLMs) suddenly became household, dinner-table conversations. Writers, artists and creatives grappled with the implications of these technologies for their industries and job prospects; teachers and professors were faced with new dilemmas around plagiarism and AI-assisted writing; and workers worried about the possibility of automation and job loss. Some of these conversations were, of course, part of the artificially-generated AI hype wave created and sustained by leading technology companies like Google and OpenAI to encourage the continued consumption of their products.

However, our debates around the development and deployment of AI applications across a range of sectors has also compelled a reassessment of these sectors themselves, sparking questions like: what is education actually for, and what do we hope to achieve through educational programmes? What is art's societal and political value? How will AI shape the future of work, and what kinds of futures do we want to strive for? How can we meaningfully address the ethical and sociopolitical impacts of AI, without feeding into false narratives about AI or locking us into a future where AI seems inevitable?

The CJAI aims to intervene in these debates. It is a richly interdisciplinary journal, drawing together insights from fields as diverse as law, philosophy, psychology, science and technology studies, computer science, politics and international relations, science communication, and sociology. This issue is no exception. From exploring explainability through the lens of the EU AI Act through to the relationship between AI generated art and the aesthetic experience, through to conceptualising consent in the medical AI context and investigating how AI applications at the border

are built on systems of racial capitalism, this issue represents the wide range of crucial conversations we need to have about AI.

This interdisciplinary approach is essential for understanding not only how AI and ML systems work, but also their broader social and political implications. How technologies work cannot be divorced from their wider context, including how they are narrativised and imagined in popular culture and science fiction; how they are deployed to support or subvert existing sociopolitical systems and agendas; how they are designed to fit the needs of some users, while excluding others; who owns these technologies and profits from them; and the environmental costs of creating and using said technologies. The CJAI places ethics at the heart and soul of its research agenda, and this is borne out in the thoughtful and nuanced journals in this inaugural issue.

Furthermore, by fostering a lively student-led conversation on AI and ML, the CJAI is providing an essential and underserved forum for students to bring their innovative and interdisciplinary work to a wider audience. I am truly thrilled that the thought-provoking writing I see from students can be read and shared by a community of interlocuters who are equally interested in AI and its wider impacts.

Thank you so much for your support of the CJAI, and I hope you enjoy the issue!

Dr. Kerry McInerney
Leverhulme Centre for the Future of Intelligence