



AI for People and with People Workshop

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AI For People And With People Workshop

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ABSTRACT

Chalmers AI Center CHAIR is supporting the project "AI for people" to focus on the societal implications of AI from an interdisciplinary perspective. The project includes this workshop that emphasizes interactive and collaborative dimensions of AI, inviting renowned researchers from diverse fields. The workshop aims to foster discussions about the human facets of AI, focusing on ethical, social, artistic, and multidisciplinary aspects. It seeks to create an interdisciplinary dialogue among various disciplines such as interaction design, cognitive science, roboethics, and more. The workshop includes presentations and a panel discussion. It is anticipated to emphasize the collaborative relationship between humans and AI, centering on enhancing human lives and prioritizing ethics, transparency, and inclusivity. It aims at positioning AI as a tool for positive societal transformation and human empowerment.

CCS CONCEPTS

• **Human-centered computing**; • **Human-computer interaction**; • **Interaction design**; • **Computing methodologies**; • **Artificial intelligence**; • **Applied computing**; • **Arts and humanities**;

KEYWORDS

AI, Human-centric, Interaction design, Interdisciplinarity, Crossdisciplinarity

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1 OVERVIEW

In this new era of automation and technological pervasiveness in human life, it is now clear that AI technologies are here to stay. Chalmers AI Center CHAIR supports the project "AI for people" which aims to highlight the societal impacts of AI from a diverse inter- and cross-disciplinary perspective. This workshop is one of the events within that project where we want to focus on interactive and collaborative aspects of *AI for people, with people*.



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2 GOALS AND OBJECTIVES

While the workshop discussions highlight the societal aspects of AI, we plan to invite researchers from the following disciplines to create an interdisciplinary colloquium: interaction design, cognitive science, logic, computer engineering, roboethics, arts, philosophy, and logic [1-13].

The theoretical pillars we address within the scope of this workshop include formulating stances toward:

Human-Centered Approach. "AI for people and with people" places human needs and values at the forefront of AI development. It aims to create AI systems that are user-friendly, accessible, designed with human perspectives, and aligned with human preferences and ethical considerations. This approach seeks to augment and diversify human capabilities with AI. AI can be used as a tool to assist and empower individuals in various domains, such as education, research, arts, media, customer service, healthcare, and decision-making processes -among others.

Ethics and Fairness. AI and robotic systems developed under this paradigm prioritize ethics, access, and fairness. They aim to avoid biased decision-making and discriminatory outcomes, ensuring that AI benefits all members of society without amplifying existing inequalities. There is an emphasis on AI technology that is accessible to; inclusive of; and representative of diverse populations, including individuals with disabilities or from different cultural backgrounds.

Collaborative AI. This concept promotes the idea of humans and AI working together in harmony. Instead of isolating AI as a separate entity, it encourages cooperation between humans and AI systems to achieve better results and foster mutual development.

Privacy and Security: Respecting user privacy and ensuring the security of data is vital. AI systems should be designed with robust privacy protections to safeguard individuals' sensitive information.

Representation, Inclusivity, and Diversity: The concept of "AI for people and with people" aims to understand aspects of making AI technology accessible to diverse populations, including individuals with disabilities and from different socio cultural and economic backgrounds.

Power and Control: Revealing the actors and stakeholders of AI systems can highlight the subjects involved in AI technologies, and their power in decisions of future technologies. Incumbent with revealing power and decision-making hierarchies is a need to educate individuals about AI and its capabilities, so they can make informed decisions and fully leverage the potential of AI in their personal and professional lives.

Responsible AI and robotic development: acknowledges the responsibility of AI and robot developers and stakeholders to consider the broader and future societal, environmental and economic impacts of their AI applications and to actively address potential risks.

While some may perceive these topics as too broad for a workshop, we believe it is essential to adopt a comprehensive approach.

In line with the current shift in academic research towards multi-disciplinarity [1], taking a broader view allows us to fully appreciate the significance of AI's societal implications. We believe that it is now time to initiate holistic discussions that move beyond disciplinary borders to address upcoming challenges of AI technologies. See: Kivanç Tatar and Kelsey Cotton, *A Shift In Artistic Practices through Artificial Intelligence* [1, 7, 13], and Gordana Dodig-Crnkovic *AI, Robotics, Ethics* [5, 6]

3 WORKSHOP SCHEDULE

9:00-9:10 Introduction: Gordana Dodig-Crnkovic
 9:10-9:30 Palle Dahlstedt (Chalmers): Lecture/performance for piano and electronics.
 Playing with agents, based on five different algorithms. [7, 8, 13]
 9:30-9:45 Paula Quinon, and Peter Gärdenfors (Lund University), and Antonio Chella (University of Palermo):
 Robots for neuro-atypical agents [10][11]
 9:45-10:00 Pedro Marijuan and Jorge Navarro López (University of Zaragoza) AI and social emotions [12]
 10:00-10:15 Sara Ljungblad, People's experiences of robots in everyday environments [2–4]
 10:15-10:30 Jasmina Marić, Art and Human Dignity [9]
 10:30-10:45 Markose, Sheri (University of Essex): TBA
 10:45-11:00 Patrick W. Kelly, Francesco Cocco, and Rao Mikkilineni (Golden Gate University, San Francisco):
 General Theory of Information, Digital Genome, Large Language Models, and Medical Knowledge-Driven Digital Assistant.
<https://www.youtube.com/@raomikkilineni9150>
 11:00-12:00 PANEL DISCUSSION

4 EXPECTED OUTCOMES

"AI for people and with people" is a concept that emphasizes the development and deployment of artificial intelligence technologies with a human-centric approach that has a strong focus on a collaborative relationship between humans and AI systems. It centers around the idea of using AI to enhance human lives and improve society, benefiting individuals through interaction and collaboration. It seeks to promote AI technologies that benefit individuals, facilitate collaboration between humans and AI, and prioritize ethics, transparency, and inclusivity throughout the process. By following this approach, AI becomes a powerful tool for positive societal transformation and human empowerment.

5 EXPECTED PRESENTERS AND AUDIENCE

We have invited internationally renowned researchers to share their recent research related to the topic of human facets of AI and reflect on ethical, social, esthetic, artistic, and multidisciplinary strands of AI for people with people. The expected audience is HAI participants.

6 ORGANIZER

Gordana Dodig-Crnkovic is a Professor of Interaction Design at Chalmers and Professor of Computer Science at Mälardalen University. Her research is in the ethical aspects of computing and interdisciplinary methods, among others. Find more at: <https://gordana.se/>

REFERENCES

- [1] Dignum, V., Casey, D., Cerratto-Pargman, T., Dignum, F., Fantasia, V., Formark, B., Hammarfelt, B., Holmberg, G., Holzapfel, A., Larsson, S., Lagerkvist, A., Lakemond, N., Lindgren, H., Lorig, F., Marusic, A., Rahm, L., Razmetaeva, Y., Sikström, S., Tatar, K., & Tucker, J. (2023). *On the importance of AI research beyond disciplines* (arXiv:2302.06655). <https://doi.org/10.48550/arXiv.2302.06655>
- [2] Šabanović S. (2010). Robots in Society, Society in Robots. *Int. J. Soc. Robotics* 2, 439–450.
- [3] Brandao M. (2021). "Normative Robotists: the Visions and Values of Technical Robotics Papers," in *IEEE International Conference on Robot and Human Interactive Communication (RO-MAN)*, 671–677. 10.1109/RO-MAN50785.2021.9515504
- [4] Serholt S., Ljungblad S., Ni Bhroin N. (2021). Introduction: Special Issue—Critical Robotics Research. *AI Soc.* 2021, 1–7.
- [5] Dodig Crnkovic, G. and B. Çürüklü. Robots: ethical by design. *Ethics and Information Technology*, 14(1):61–71, Mar 2012
- [6] Dodig Crnkovic, G., T. Holstein, P. Pelliccione and Jathoosh Thavarasa (2023) "Future Intelligent Autonomous Robots, Ethical by Design. Lessons Learned from Autonomous Cars Ethics." *Proc. ICSIT 2023 conference*. DOI: 10.54808/ICSIT2023.01 <https://www.iiis.org/CDs2023/CD2023Spring>
- [7] Diapoulis, G., I. Zannos, K. Tatar, P. Dahlstedt (2022) Bottom-up live coding: Analysis of continuous interactions towards predicting programming behaviours. *NIME proceedings*
- [8] Diapoulis, G., P. Dahlstedt (2021) An analytical framework for musical live coding systems based on gestural interactions in performance practices. *International Conference on Live Coding (ICLC)*, Valdivia, Chile, 15-17 December 2021 (Session VI)
- [9] Maric, J. (2023) The Resurrection of Art and Human Dignity MAGNETS Case Study. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*. 1867-8211 (ISSN) Vol. 479 LNICST p. 603-613. 11th EAI International Conference on ArtsIT, Interactivity and Game Creation, ArtsIT 2022 Faro, Portugal, 2022-11-21 - 2022-11-22
- [10] Quinon, P. (2017) Engineered emotions. *Science* 358 (6364), 729-729
- [11] Gärdenfors, P. (2000) *Conceptual Spaces. The Geometry of Thought*. Cambridge, MIT Press
- [12] Navarro, J. and P. C. Marijuán (2022) The Natural, Artificial, and Social Domains of Intelligence: A Triune Approach. *Proceedings* 81, no. 1.2. <https://doi.org/10.3390/proceedings2022081002>
- [13] Tatar, K., P. Ericson, K. Cotton, P. Torres Núñez del Prado, R. Batlle-Roca, B. Cabrero-Daniel, S. Ljungblad, G. Diapoulis and J. Hussain (2023) *A Shift In Artistic Practices through Artificial Intelligence*. arXiv:2306.10054v1 [cs.CY] <https://doi.org/10.48550/arXiv.2306.10054>