



ACM Transactions on Interactive Intelligent Systems (TiiS)

Special Issue on Human-Centric Generative AI

Guest Editors:

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As Generative AI (GenAI) increasingly transforms how people interact with intelligent systems, it is crucial to understand, develop, and improve human-centric approaches that enable individuals to interact with and influence AI-powered systems, fostering greater control and collaboration. This special issue focuses on the role of humans in GenAI systems and how to empower different stakeholders in the sociotechnical systems to effectively understand, control, and steer GenAI systems and enable responsible innovation. We welcome research that explores new interaction techniques for integrating human input into GenAI's continual development, investigates how various interaction paradigms can facilitate more effective human-AI collaboration, and promotes a better understanding of model capabilities. Meanwhile, we encourage authors to submit research that examines the ethical, cultural, and legal implications of GenAI systems. This special issue aims to foster a research community around Human-Centric GenAI that empowers individuals to actively shape the development of GenAI systems that incorporate their values, needs, and expectations.

Topics

This special issue invites submissions that feature original research on the design, development, and evaluation of innovative interactive intelligent systems for human-centric Generative AI.

- **Human-in-the-loop Model Development:** Exploring novel methods and techniques for incorporating human feedback, preferences, and expertise in the development of generative AI models, facilitating more efficient and effective collaboration between humans and AI systems.
- **Understanding Model Capability:** Investigating methods for evaluating and communicating the capabilities and limitations of GenAI models, enabling stakeholders in a sociotechnical system to make informed decisions on model usage and better leverage the AI's potential in various applications.
- **Novel Interaction with Generative AI:** Examining novel interaction modalities and paradigms that allow individuals to effectively communicate their intentions and preferences to the intelligent system, leading to more intuitive and engaging generative AI experiences.
- **Generative AI for Creativity Support:** Enhancing human creativity through AI-assisted tools and techniques, that focus on fostering an environment where creativity thrives by promoting exploration, experimentation, and collaboration between humans and AI systems, ultimately empowering individuals to push the boundaries of their creative potential.
- **Responsible and Inclusive Generative AI:** Emphasizing creating ethically-driven, transparent, and inclusive generative AI systems that cater to diverse users, prioritizing fairness and minimizing biases while fostering trust and accountability.

Important Dates

- Submission deadline: ~~April 1, 2024~~ **May 1, 2024**
- First-round review decisions: June 15, 2024
- Deadline for revision submissions: September 1, 2024

- Second-round review decisions: October 15, 2024
- Deadline for Camera Ready: November 1, 2024
- Tentative publication: December 2024

Submission Information

The journal welcomes articles on any of the above topics in the context of human-centric generative AI. ACM TiiS will encourage original submissions that have not been published or submitted in any form elsewhere, and submissions which may significantly contribute to opening up new and potentially important areas of research and development. ACM TiiS will publish outstanding papers that are "major value-added extensions" of papers previously published in conferences. Such extensions must contribute at least 30% of new original work. In this case, authors will need to identify in a separate document the list of extensions over their previously published paper. For more information about the submission format and procedure, please refer to [the author guidelines](#).

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