

HUMAN BEHAVIOR AND USER INTERFACES FOR HUMAN-CENTERED GENERATIVE AI

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DESCRIPTION

The aim of generative AI, which is powered by neural networks and machine learning, is to generate material that simulates human creativity. However, in order to optimize its efficiency and adoption, it is essential to understand human behavior and create user interfaces (UI) that really connect with users. AI systems are ensured to be user-friendly, efficient, and supportive of human needs through the application of human-centered design principles. Generative AI has the ability of producing technically complex and emotionally compelling material by concentrating on human behavior. To create user-friendly, easily navigable interfaces that facilitate meaningful interactions, conduct thorough user research to understand needs, preferences, and behaviors. To enhance AI outputs gradually, need to establish feedback loops. To increase relevance and engagement, have to customize content based on user preferences and behaviors.

AI can understand and produce drafting that is similar to human due to natural language processing (NLP), and it can create and analyze visual information according to computer vision. Users can interact with AI outputs in real-time via interactive generative models, while emotion recognition incorporates emotional cues to improve user engagement. Interactive artificial intelligence (AI) systems generate personalized information based on user inputs and real-time adaptation according to specific circumstances and preferences. Fairness, accountability, and transparency in AI-generated outputs are further key components of ethical AI. Scientifically intelligent AI is able to comprehend and react to a wide range of complicated human emotions. While collaborative AI systems function in cooperation with humans to facilitate creative processes, multi-modal generative AI integrates text, images, and other sensory inputs to produce better content.

In order to address challenges, diverse datasets and rigorous testing must be implemented

to prevent bias. Data protection and user consent must be ensured in to address privacy concerns, and technical complexity must be managed by simplified UI/UX while maintaining AI's sophistication through continuous testing and user feedback. Human-centered generative AI has the power to completely transform user interaction, communication, and the creative sectors. By the prioritization of human behavior and the design of user-friendly interfaces, artificial intelligence (AI) can be utilized to enhance creativity, productivity, and user satisfaction in various applications.

Topics of interest include but are not limited to:

- ▶ Role of Generative AI in Simulating Human Creativity.
- ▶ Optimizing Efficiency and Adoption of Generative AI through Human-Centered Design Principles.
- ▶ Future Trends in Generative AI and Human-Centered Design.
- ▶ Enhancing Relevance and Engagement in AI-Generated Material.
- ▶ Employing Feedback Loops for Continuous Improvement in Generative AI Outputs.
- ▶ Advancements in Natural Language Processing (NLP) for AI.
- ▶ Applications of Computer Vision in AI for Creating and Analyzing Visual Information.
- ▶ Analysis of Continuous Testing and User Feedback for Maintaining AI Sophistication and Effectiveness.
- ▶ Ethical Considerations in AI Development for Prioritizing Human-Centered Design Principles.
- ▶ Designing Intuitive AI Interfaces by Simplifying UI/UX for Enhanced User Experience.

HOW TO SUBMIT

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The deadline for submissions is **November 30th, 2025**, but individual papers will be reviewed and published online on an ongoing basis.

