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ChatGPT: A Sea Change to Education

Shuyuan Ho
Florida State University, smho@fsu.edu

Yue Liu
Florida State University, yl22t@fsu.edu

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Thinking with Robots: Exploring User Adoption and Experience of Generative Adversarial Networks (GANs)

TREO Talk Paper

Yue Liu

School of Information
Florida State University
Tallahassee, FL, 32306-2100
yl22t@fsu.edu

Shuyuan Mary Ho

School of Information
Florida State University
Tallahassee, FL, 32306-2100
smho@fsu.edu

Abstract

The use of artificial intelligence is gradually expanding from the workplace to the lives of ordinary people. ChatGPT, as one of the AI technologies closest to people's daily lives, facilitates human-bot interaction in a conversational manner. Some studies have explored how ChatGPT can be a useful tool for students and instructors to enhance their learning experience. However, there are also some concerns about using ChatGPT, including the disruption of the natural order of human civilization. This is particularly relevant in education, where some students have become dependent on AI for academic tasks. Our study aims to understand college students' adoption and experience of ChatGPT, as it differs from general information-seeking tools. Thus, our research questions are anchored on: What do users perceive when interacting with generative AI? What factors do users consider when using ChatGPT? What issues or concerns do users have about using ChatGPT as an educational tool?

To better understand college students' adoption and experience of ChatGPT, we propose a research framework that combines Fred Davis's (1989) Technology Acceptance Model (TAM) and Hassenzahl's (2003) User Experience (UX) model. The independent variables include user acceptance and adoption of ChatGPT as measured by the TAM constructs (perceived usefulness and perceived ease of use), the UX model components (subjective hedonism and objective pragmatism), social norms and peer influence. Those factors might influence the dependent variable behavioral intention, in order to affect the actual use.

The experiment was designed to investigate college students' experience with ChatGPT by conducting a pre-experiment where participants completed an assessment using ChatGPT and then completed a questionnaire to assess user experience. Data were analyzed to draw conclusions about the effectiveness of ChatGPT and its impact on the educational environment.

The popularity of ChatGPT has had a significant impact on the traditional education industry. Professors are concerned about students using ChatGPT to submit assignments, as this may affect the students' absorption of new knowledge and skills. Instead, our research focus on how students can use AI systems wisely to enhance learning, rather than cheating with AI-generated text. ChatGPT, as an easy-to-use intelligent chatbot, can alleviate some workload for teaching assistants and provide every student with the equal chance to ask questions and receive academic help.

In conclusion, there are both potential risks and benefits to introducing AI technology like ChatGPT in the academic field. Our study aims to provide insight into how college students perceive and interact with this technology, allowing us to better understand its impact on the educational field. While artificial intelligence is undoubtedly a tremendous asset to human society, it is essential to acknowledge its potential negative effects. How to better utilize AI to help society progress better and faster will be a more important topic for future research.

References

Davis, F. D. (1989). Perceived usefulness, perceived ease of use, and user acceptance of information technology. *MIS quarterly*, 319-340.