

Keynote Speech 9 (11:15 to 12:00 HKT, 11th July 2024/D1-LP-02)

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Exploring the Role of Generative AI Tools in Enhancing Personalized Learning: A Critical Review and Projection

Abstract

Scaling up or enhancing education includes the provision of individualized tutoring or learning experiences to students, a feat that can be achieved through one-on-one interactions. The advent of generative AI tools like ChatGPT has made it possible to potentially meet this requirement on a larger scale. In this talk, we will evaluate the prospective and actual efficacy of the present AI-driven chatbot tools in augmenting personalized learning (PL).

We describe a study that focuses on the design of learning activities that engage graduate students in dialogue with a tutor bot on the subject of educational reforms. By examining the conversational exchanges between the students and the bot, we gain fresh perspectives on how to analyze and refine the PL process, taking into account the existing level of chatbot technology.

We also explore the enhancing of the PL process through the lens of human-AI collaboration, aiming to achieve optimal outcomes. Recognizing the rapid advancements in AI, which pose challenges in making long-term predictions, we contemplate the possibility of shifting the focal point of human-AI collaboration in order to amplify the learning experience.

Biography

Professor Looi is Research Chair Professor in the Education University of Hong Kong. He is Emeritus Professor at National Institute of Education (NIE) of Nanyang Technological University (NTU), Singapore. Professor Looi is a Fellow of the International Society of Learning Sciences, and a Fellow of the Asia-Pacific Society for Computers in Education. He was the founding member of the Global Chinese Society of Computers in Education, and served as its President (2017-2019). His research focuses on learning sciences, computer-supported collaborative learning, mobile learning, AI & Education, and computational thinking.

