

How Artificial Intelligence Can Enhance Creativity in Arts Education

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Abstract

The inclusion of artificial intelligence (AI) in art education has the potential to revolutionize creative teaching methods. However, the impact of AI-generated creativity on the artistic process has not been thoroughly investigated. This project aims to develop a comprehensive theoretical framework by combining knowledge from educational psychology, philosophy of art, and AI ethics to explain the paradox of AI-generated creativity in art education.

A quasi-experimental study will examine the effects of incorporating AI-generated creativity tools into undergraduate art education on students' creative achievements and confidence in creating art.

The research methodology involves conducting in-depth interviews with art instructors, students, and art professionals; holding focus groups with students; observing teaching sessions; analyzing curricula and lesson plans; visually assessing AI-generated artworks; and integrating AI-generated tools in Drawing or Painting Classes for undergraduate art Education Majors in a quasi-experimental design.

The research questions explore: (1) How does AI-generated creativity impact the artistic process in art education? (2) To what extent can AI promote or impede creativity in art students? (3) How can art educators address the ethical implications of AI-generated creativity?

The project is ongoing, and the results are currently being processed. It is hypothesized that the experimental group using AI-generated creativity tools will exhibit greater improvements in self-efficacy scores and achieve higher creative outcomes compared to the control group.

The project's findings will unveil the intricate interaction of AI-augmented creativity in art education and provide new perspectives for a balanced integration of technology in creative teaching practices.

Bio

Dr. Zoran Poposki, FRSA, FRAS, is an internationally acclaimed transdisciplinary artist, curator, and researcher working in the fields of practice-based research, visual semiotics, social practice, digital visual culture, and arts leadership. His work has been shown in more than 120 gallery and museum exhibitions, biennials, and festivals worldwide. He is currently an Assistant Professor at the Department of Cultural and Creative Arts at The Education University of Hong Kong. zpoposki@eduhk.hk