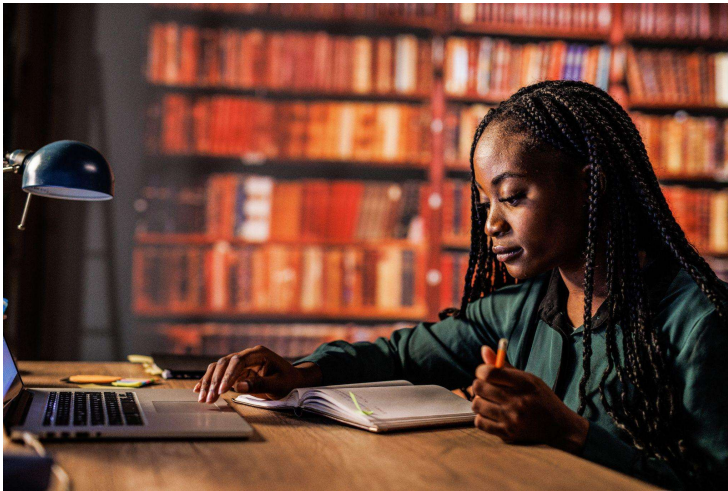


Disciplinary and Interdisciplinary Science Education Research

Call for Papers

Opportunities and Challenges of Using AI in Science Education



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The Journal of Disciplinary and Interdisciplinary Science Education Research (DISER) announces a special issue on the opportunities and challenges of using AI in science education. As digital technologies rapidly advance, AI has increasingly been applied in various educational fields, including science education. The focus of science education has shifted toward the use of knowledge rather than mere recall.

In the last decade, researchers have used machine learning to develop algorithms for automatically scoring assessments and providing automated feedback for teachers and students. More recently, the emergence of generative AI technologies, such as ChatGPT and Gemini, has attracted attention for advancing science teaching and learning in both formal and informal settings and supporting science teacher professional development. Despite the progress, there are challenges in integrating AI into diverse learning environments, particularly for teachers and students from varied backgrounds. The collection welcomes research exploring how AI can promote knowledge-in-use in science education, the advantages and challenges of AI, and its optimal uses.

Guest Editors

- **Prof. Joseph S. Krajcik:** Michigan State University, United States
- **Prof. Peng He:** Washington State University, United States

Submission Deadline: 28 February 2025

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