Applied Sciences

an Open Access Journal by MDPI

CiteScore: 5.5
Impact Factor: 2.5

Special Issue Reprint

Artificial Intelligence Technologies for Education

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This Reprint presents a collection of cutting-edge research and reviews on the application of artificial intelligence (AI) technologies in education, focusing on both theoretical advancements and practical implementations. It examines how AI can be leveraged to enhance personalized learning, support adaptive assessment, enable intelligent learning environments, and facilitate more effective human–computer interaction in educational contexts. The contributions cover a broad spectrum of topics, including student and cognitive modeling, educational data mining, natural language processing for educational purposes, learning analytics, and the design of automated assistants and intelligent tutoring systems.

The works featured in this Reprint address key challenges and opportunities in integrating AI into diverse educational domains. They explore innovative methods and tools for analyzing learning data, delivering targeted instructional support, and adapting pedagogical strategies to meet the needs of individual learners. The collection also highlights the interplay between AI-driven systems and educators, emphasizing collaborative and human-centered approaches to technology-enhanced learning. By bringing together original research, comprehensive surveys, and case studies, this Reprint provides valuable insights into the evolving role of AI in shaping the future of education, making it a useful resource for researchers, practitioners, and policymakers alike.

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