

1. Record Nr.	UNINA9910869168803321
Titolo	Artificial Intelligence in Education : 25th International Conference, AIED 2024, Recife, Brazil, July 8–12, 2024, Proceedings, Part I // edited by Andrew M. Olney, Irene-Angelica Chounta, Zitao Liu, Olga C. Santos, Ibert Bittencourt
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	3-031-64302-X
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (531 pages)
Collana	Lecture Notes in Artificial Intelligence, , 2945-9141 ; ; 14829
Disciplina	371.334
Soggetti	Artificial intelligence Database management Data mining User interfaces (Computer systems) Human-computer interaction Education - Data processing Social sciences - Data processing Artificial Intelligence Database Management Data Mining and Knowledge Discovery User Interfaces and Human Computer Interaction Computers and Education Computer Application in Social and Behavioral Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	-- From Learning Actions to Dynamics: Characterizing Students' Individual Temporal Behavior with Sequence Analysis. -- Explainable Automatic Grading with Neural Additive Models. -- PBChat: Enhance Student's Problem Behavior Diagnosis with Large Language Model. -- Generating Situated Reflection Triggers About Alternative Solution Paths: A Case Study in Generative AI for Computer-Supported Collaborative Learning . -- Automated Assessment of Encouragement and Warmth in Classrooms Leveraging Multimodal Emotional Features

and ChatGPT. -- Ruffle&Riley: Insights from Designing and Evaluating a Large Language Model-Based Conversational Tutoring System. -- Knowledge Tracing Unplugged: From Data Collection to Model Deployment. -- Grading Documentation with Machine Learning. -- Supporting Teaching-to-the-Curriculum by Linking Diagnostic Tests to Curriculum Goals: Using Textbook Content as Context for Retrieval-Augmented Generation with Large Language Models. -- VerAs: Verify then Assess STEM Lab Reports. -- Evaluating the Effectiveness of Comparison Activities in a CTAT Tutor for Algorithmic Thinking. -- Automated Long Answer Grading with RiceChem Dataset. -- Knowledge Tracing as Language Processing: A Large-scale Autoregressive Paradigm. -- Can GPT4 Answer Educational Tests? Empirical Analysis of Answer Quality based on Question Complexity and Difficulty. -- Understanding Gender Effects in Game-Based Learning: The Role of Self-Explanation. -- Calcium regulation assignment: Alternative styles in successfully learning about biological mechanisms. -- Who's helping who? When students use ChatGPT to engage in practice lab sessions. -- Deep-IRT with a temporal convolutional network for reflecting students' long-term history of ability data. -- How to Teach Programming in the AI Era? Using LLMs as a Teachable Agent for Debugging. -- Improving the Validity of Automatically Generated Feedback via Reinforcement Learning. -- Automatic Detection of Narrative Rhetorical Categories and Elements on Middle School Written Essays. -- Marking: Visual Grading with Highlighting Errors and Annotating Missing Bits. -- Jill Watson: A Virtual Teaching Assistant powered by ChatGPT. -- Evaluating the Design Features of an Intelligent Tutoring System for Advanced Mathematics Learning. -- Anticipating Student Abandonment and Failure: Predictive Models in High School Settings. -- Beyond the Grey Area: Exploring the Effectiveness of Scaffolding as a Learning Measure. -- Fairness of MOOC Completion Predictions Across Demographics and Contextual Variables. -- EngageME: Exploring Neuropsychological Tests for Assessing Attention in Online Learning. -- The Neglected 15%: Positive Effects of Hybrid Human-AI Tutoring Among Students with Disabilities. -- Fine-tuning a Large Language Model with Reinforcement Learning for Educational Question Generation. -- On Cultural Intelligence in LLM-based Chatbots: Implications for Artificial Intelligence in Education. -- Leveraging Large Language Models for Automated Chinese Essay Scoring. -- The Unexpected Effects of Google Smart Compose on Open-Ended Writing Tasks. -- Teaching and Measuring Multidimensional Inquiry Skills using Interactive Simulations.

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### Sommario/riassunto

This book constitutes the refereed proceedings of the 25th International Conference on Artificial Intelligence in Education, AIED 2024, held in Recife, Brazil, in July 8–12, 2024, Proceedings. The 49 full papers and 27 short papers presented in this book were carefully reviewed and selected from 334 submissions. The papers present results in high-quality research on intelligent systems and the cognitive sciences for the improvement and advancement of education. .

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