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Nota di contenuto	Part I: Artificial Intelligence And Its Challenges In Education. Evaluating Popular Mooc Platforms By Generative Artificial Intelligence (Ai) Robots: How Consistent Are The Robots? -- Integrating Large Language Models In Art And Design Education -- Usage Of And Attitudes Towards Ai-Technology In The Learning Processes Of First-Year Students -- Exploring Infranodus: A Text Analysis Tool -- Fostering Problem Solving And Critical Thinking In Mathematics Through Generative Artificial Intelligence -- Part Ii: Does Chatgpt Disrupt Education?. How To Deal With Ai-Powered Writing Tools In Academic Writing: A Stakeholder Analysis -- Homogeneity Of Token Probability Distributions In Chatgpt And Human Texts -- Anchoring Concepts Influence Essay Conceptual Structure And Test Performance -- Chatgpt And Bard In Education: A Comparative Review -- Part Iii: Learning Analytics And Its Applications. Mining, Analyzing, And Modeling The

Cognitive Strategies Students Use To Construct Higher Quality Causal Maps -- Grouping Students' Learning Patterns With Manaba's Log Data By K-Means -- Leveraging Emotions To Enhance Learning Success In Online Education: A Systematic Review -- Score Prediction From Programming Exercise System Logs Using Machine Learning -- The Effects Of Learning Analytics-Based Feedback On Knowledge Acquisition: The Role Of Feedback Literacy -- Three Frameworks For Data Literacy -- Part Iv: Exploratory Technologies And Its Benefits. The Effects Of Age And Learning With Educational Robotic Devices On Children's Algorithmic Thinking -- Effects Of An Immersive, Multilinear Future Scenario For Education Purposes -- On The Predictors Of Computational Thinking Self-Efficacy -- Mathematical Problem-Solving By Means Of Computational Thinking And Programming: A Use-Modify-Create Approach -- The Use Of Metacognitive Strategies In Storytelling To Examine Preschool Children's Listening Comprehension Skills -- Tap Or Swipe: Interaction's Impact On Cognitive Load And Rewards In A Mobile Mental Math Game -- Systematic Literature Review Of The Effort Of Gaming Elements On E-Learning Platforms -- Augmented Reality And Virtual Reality In Preservice Teacher Preparation: A Systematic Review Of Empirical Literature.

Sommario/riassunto

The Cognition and Exploratory Learning in the Digital Age (CELDA) conference focuses on discussing and addressing the challenges pertaining to the evolution of the learning process, the role of pedagogical approaches and the progress of technological innovation, in the context of the digital age. In each edition, CELDA, gathers researchers and practitioners in an effort to cover both technological and pedagogical issues in ground-breaking studies. Some of CELDA's main topics include: assessment of exploratory learning approaches and technologies, educational psychology, learning paradigms in academia and the corporate sector, student-centered learning and lifelong learning. The CELDA 2023 conference selected and published a selection of papers that focus on the use of Artificial Intelligence and Learning Analytics in the educational context.