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Nota di contenuto	Research on Multi-dimensional Bilingual Teaching Model of Computer Courses Supported by Artificial Intelligence -- Research on the Form of "Four-Steps" Open Project Practical Teaching Activities -- Exploring the Association Between Computational Thinking and Cognitive Abilities of Elementary Students: A Preliminary Study -- Research on the Integration of Digital Literacy Education and Writing Education in Vocational Colleges -- Improving Information Literacy of Engineering Doctorate based on Team Role Model -- Reflections and Countermeasures on Open Project-based Practical Teaching at Universities under the Epidemic Situation -- Withdrawals Prediction in Virtual Learning Environments with Deep Self-Paced Learning -- A Study on Game Teaching in Python Programming Teaching for Middle school -- Research on Practice of P-PMCP Double Closed-Loop Hybrid Teaching Model - Taking Course of "Big Data Visualization"as an Example -- KAP: Knowledge-graph based Auxiliary Platform for Outcome-based PythonEducation -- Learning Comparative Analysis of Teaching Models Based on Smart Platforms--Takes ERP Principles and Applications as Example -- Research on Hierarchical Teaching Using Propensity Score Weighting-based Causal Inference Model -- Research on Experimental Teaching Reform of Computer Principles Course Based

on Logisim Simulation Software -- Hierarchical and Diverse Cultivation of Data Thinking Capability in College Based on New High School Curriculum Standards -- Design and Production of Intelligent Practical Teaching Robot -- Language Vitality Assessment Based on Cyberspace Data: a Case Study and Future Research Prospects -- Design and Implementation of a Cloud-Native Platform for Financial Big Data Processing Course -- High-Speed Emotional Analysis of Free-Descriptive Sentences Using an Emotional-Word Dictionary.-Teaching Practice of E-learning Teaching Mode in Big Data Course Ideology and Politics -- An Experimental Case Study for the Course of 'Testing Technology and Data Processing' -- Video-based Sentiment Analysis of International Chinese Education Online class -- Design of Process Management Platform for Project Practice Teaching -- A Study on The Dynamic Development of Chinese Second Language Learners' Oral Lexical Competence from The Perspective of International Chinese Education -- Effectiveness of strategy instruction on EFL learners' listening comprehension via a web-based virtual community of practice -- Course Homework Reform in Universities Based on Extended Reality -- One case of THOUGHT: industry-university converged education practice on open source -- On the Current Situation of the English Autonomous Learning of Middle School Students: A Case Study of the Students of Yinzhou Foreign Language Middle School in Ningbo -- Case Teaching of Programming Course Integrating Professional Characteristics under the Idea of OBE -- Exploring Contested Issues with MOOCs and MOOCs' Practical Status in Chinese Local Undergraduate University -- A Study of Students' EmotionalEngagement in Blended Learning in the Post-epidemic Era - A Case Study of College English Course -- A Portable Electrical Signal Generator for Active Learning -- Communication Principle Project-Based Learning: Smart Home Using Voice Remote Control and Visible Light Communication -- Image Stitching in Dynamic Scene for Computer Vision Project-Base Learning.-OneAPI Toolkits with Online Devcloud Platform for Teaching Heterogeneous Computing in Artificial Intelligence Specialty -- GcnSV: A method based on deep learning of calling structural variations from the third-generation sequencing data -- Online Teaching of Computer Fundamentals Course during the Pandemic -- WeChat Teaching and Learning Practice in College English -- Developing Blockchain Learning Lab Experiments for Enhancing Cybersecurity Knowledge and Hands-On Skills in the Cloud -- The Metaverse Technology Empowered English Education-"Meta-course" -- A Study on Online Game Genshin Impact and the Dissemination of Chinese Culture -- An Enabling-Oriented Blended Teaching and Learning Ecosystem -Take the Data Structure and Algorithm Course as an Example -- Attention Cloud Map: Visualizing Attention Migration of Students' Debugging Process in Semantic Code Space -- Research on the Database Construction of Talents for Professional Chinese in Energy Industry -- Exploration and Research on the Construction of new generation Information Technology Specialty Cluster for Application-oriented Universities -- A Study on Behavioral Engagement of College English Learners in Blended Teaching Model -- Data Analysis of Online Judge System-Based Teaching Model -- Design and Practice of Multi-level Programming Experimental Teaching for Emerging Engineering Education -- The Reform and Practice of PYTHON Programming Teaching in the Context of Emerging Engineering Education.-Exploration and Practice of High-Quality Engineering Teaching Process Evaluation System of College-Enterprise Cooperation in Colleges -- Teaching Reform and Practice of University Computer Foundation Course Based on Python -- Data Mining Series Experiment Design and

OJ System Development Based on R Language.

Sommario/riassunto

This three-volume set constitues selected papers presented during the 17th International Conference on Computer Science and Education, ICCSE 2022, held in Ningbo, China, in August 2022. The 168 full papers and 43 short papers presented were thoroughly reviewed and selected from the 510 submissions. They focus on a wide range of computer science topics, especially AI, data science, and engineering, and technology-based education, by addressing frontier technical and business issues essential to the applications of data science in both higher education and advancing e-Society.