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Nota di contenuto	SATCN: An Improved Temporal Convolution Neural Network with Self-Attention Mechanism for Knowledge Tracing -- Design of Smart Mistake Notebook Based on AI and Big Data -- The Research on the Challenges Confronted by the Combination of Virtual Reality Technology and Educational Games -- Design and Development of the Intelligent Parking Management System for Urban E-bikes -- Asian Games Service Intelligent System Based on Privacy-Preserving Recommendation -- Intelligent Chinese Speech Learning Correction System -- Overview of Infrared and Visible Image Fusion Based on Deep Learning -- Topic Term Clustering Based on Semi-supervised Co-occurrence Graph and Its Application in Chinese Judgement Documents -- Facial Expression Image Classification Based on Multi-scale Feature Fusion Residual Network -- Privacy-Preserving Educational Credentials Sharing based on Blockchain and Proxy Re-Encryption -- A Method of Students' Online Learning Status Analysis Based on Facial Expression -- Short text dynamic clustering approach for semantic-enhanced knowledge -- An Improved Perspective Transformation and Subtraction Operation for PCB Defect Detection -- An Overview of Smart Contract in Blockchian Technology : Security and Platforms -- Comparison between Methods Based on LSTM and BLS for Stock Analysis and Prediction --

The Application of Information Communication Technology in design education;using extracurricular scientific research and innovation training in architecture as an example -- Multi-targets Vital Signs Detection Using CW Radar -- Robotic Polishing of Complex Curved Parts Using Series Elastic Force-controlled End-effector -- The Influence of English Learning Apps on College Students' English Learning -- Research Hotspots and Frontiers of Blockchain Technology Based on Citespace -- 3D-LSTM Wireless Sensing Gesture Recognition--A Collaborative Bachelor and Master Project-Based Learning Case -- Research on Chinese Language Learning Behaviors of Students in Indonesia Primary School -- Visualization Analysis on the Research Status and Trend of Recommendation System -- Research on Library Intelligent Service Based on Blockchain Technology -- Towards Intelligent Serious Games: Deep Knowledge Tracing with Hybrid Prediction Models -- MOOCs Based Blending Teaching Reform for Integrated College Computer Course -- Sentiment Classification of Chinese Commodity-comment Based on EMCCNN Model -- Research on an Evaluation System of Individual Digitalization Capability -- A Secure Privacy Preserving Authentication Schema for Remote Server using Biometric -- A Fast Dynamic Adaptive Sampling Algorithm for Large-scale Online Social Networks -- The Influence on Online Course Engagement of International Students Staying at Home Country: Take CFL Course as an Example -- Bibliometric Analysis for Intelligent Assessment of Data Visualization -- A Study to Evaluate Training Systems for Reducing Sensory Conflict Using Virtual Reality -- A Divisive Approach for All Pairs Shortest Path on Large-scale Graphs with Limited Resources -- Long Short-Term Conditional Probability Matrix Prediction in Energy Efficient Ethernet -- An Experiment Aiding System Driven by Eye Movement in Mixed Reality -- Big Data Management and Analysis System for Field Scientific Observation and Research Stations -- A Novel Cooperative Package Pickup Mechanism for Door-to-door Pickup Scenes -- Adaptive Iterative Learning Control for Permanent Magnet Linear Synchronous Motor -- Tracing knowledge state with individualized ability and question difficulty -- An NI-PSO-LightGBM model based on adversarial validation: mortality prediction in ICU diabetic patients -- IGFClust: clustering unbalanced and complex single-cell expression data by iteration and integrating Gini index and Fano factor -- A Bibliometric Review on Supplier Evaluation and Selection -- Prediction of Vehicle Drag Coefficient Using Machine Learning -- Research on Food Recommendation Method Based on Knowledge Graph -- Visualization and Immersion: Fascination 3D -- Clinical Intelligent Interactive System Based on Optimized Hidden Markov Model -- Exploring Motivation in Oral English Learning among Chinese English Majors through Mobileassisted Service Learning -- Intelligent Positioning Management System of Slag Tanks Based on RFID Technology -- FedHD: A Privacy-Preserving Recommendation System with Homomorphic Encryption and Differential Privacy -- Deep Neural Networks with cross-Charge Features -- Community Detection Based on Graph Attention and Self-supervised Embedding -- Research on Multimodal Rumor Detection Based on Hierarchical Attention Network -- Research on Workflow Model and Verification Method of Remote Sensing Data Processing -- Relation-aware Facial Expression Recognition Using Contextual Residual Network with Attention Mechanism -- An Edge-Cloud Collaborative Computing System for Real-time Internet-of-Things Applications -- Research on Post Epidemic Brand Co Branding Based on Big Data -- Taking Liangpin Store as an Example.-Gene Variation DetectionApproach based on Multimodal Data Fusion -- Nonlinear Robust Control for Tilt Rotor UAV

with Convex Polytopic Uncertainty -- Detecting Medical Insurance Fraud Using A Heterogeneous Information Network With A Multi-Behavior Pattern.

Sommario/riassunto

This three-volume set constitutes 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.