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Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Workshop 1: AI-based Data Processing, Intelligent Control and Their Applications: Research and practice of sample data set collection platform based on deep learning campus question answering system -- An optimized eight-layer convolutional neural network based on blocks for Chinese fingerspelling sign language recognition -- Opportunities and Challenges of Education based on AI – The case of ChatGPT -- Visualization Techniques for analyzing learning effects – taking python as an example -- Adversarial Attack on Scene Text Recognition Based on Adversarial Networks -- Collaboration of Intelligent Systems to Improve Information Security -- X”1+X” Blended Teaching Mode Design in MOOC Environment -- A CNN-based algorithm with optimized attention mecha-nism for sign language gesture recognition -- Research on Application of Deep Learning in Esophageal Cancer

Pathological Detection -- Workshop 2: Intelligent Application in Education: Coke Quality Prediction Based on Blast Furnace Smelting Process Data -- Design and development on an accessible community website of online learning and communication for the disabled -- Exploration of the Teaching and Learning Model for College Students with Autism Based on Visual Perception—A case study in Nanjing Normal University of Special Education -- Multi-modal Characteristics Analysis of Teaching Behaviors in Intelligent Classroom -- Based on the 2010-2022 review of domestic and foreign educational evaluation and university internal evaluation methods -- A Summary of the Research Methods of Artificial Intelligence in Teaching -- A Sign Language Recognition based on Optimized Transformer Target Detection Model -- Workshop 3: The Control and Data Fusion for Intelligent Systems: History and Trends in the Development of Electrostimulation Electrodes -- Non-invasive scoliosis assessment in adolescents -- Algorithm of pedestrian detection based on YOLOv4 -- A survey of the effects of electrical stimulation on pain in patients with knee osteoarthritis -- The Design of Rehabilitation Glove System Based on sEMG Signals Control -- Gaussian Mass Function based Multiple Model Fusion for Apple Classification -- Research on lightweight pedestrian detection method based on YOLO -- Research on the verification method of capillary viscometer based on connected domain -- Research on License Plate Recognition Methods based on YOLOv5s and LPRNet -- Research on Defective Apple Detection Based on Attention Module and ResNet-50 Network -- Understanding the Trend of Internet of Things Data Prediction -- Finite element simulation of cutting temperature distribution in coated tools during turning processes -- Teaching Exploration on Calculation Method under the Background of Emerging Engineering -- Predicting NOx emission in thermal power plants based onbidirectional long and short term memory network -- On the Trend and Problems of IoT Data Anomaly -- Power Sequencial Data - Forecasting Trend -- Comparison of Machine Learning Algorithms for Sequencial Dataset Prediction Detection -- Trend and Methods of IoT Sequential Data Outlier Detection -- Optimization of Probabilistic Roadmap based on two-dimensional static environment -- Partition Sampling Strategy for Robot Motion Planning in Narrow Passage under Uncertainty -- IoT Time-Series Missing Value Imputation - Comparison of Machine Learning Methods.

Sommario/riassunto

The four-volume set LNICST 532, 533, 534 and 535 constitutes the refereed proceedings of the 5th EAI International Conference on Multimedia Technology and Enhanced Learning, ICMTEL 2023, held in Leicester, UK, during April 28-29, 2023. The 121 papers presented in the proceedings set were carefully reviewed and selected from 285 submissions. They were organized in topical sections as follows: AI-based education and learning systems; medical and healthcare; computer vision and image processing; data mining and machine learning; workshop 1: AI-based data processing, intelligent control and their applications; workshop 2: intelligent application in education; and workshop 3: the control and data fusion for intelligent systems.