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Nota di contenuto	Multimedia Technology and Enhanced Learning -- Identification of Tea Leaf Based on Histogram Equalization, Gray-Level Co-occurrence Matrix and Support Vector Machine Algorithm.-Research on durability test for composite pipe fitting materials of automobile -- Method for extracting information of database of smart phone terminal in lock screen mode.-Quality Detection method of Phase change Energy Storage and Thermal Insulation Building Materials based on Neural Network -- Automatic Monitoring system of vehicle Pollutant Emissionbased on Fusion algorithm -- Research on Multi-source Heterogeneous Sensor Information Fusion Method under Internet of Things Technology.-Analysis of Guangdong-Hong Kong-Macau Greater

Bay Area's Economic growth trend based on big data Mining -- Analysis on the Development Path of Urban Agglomeration in Gulf Region of Guangdong, Hong Kong, Macao under thebackground of Big Data -- Research on Intelligent diagnosis of Fault data of large and medium-sized pumping stations under Information Evaluation system -- On-line Monitoring method of Power Transformer Insulation Fault based on Bayesian Network -- Mining and analyzing behavior patterns of smart home users based on cloud computing -- Research on Behavior Recognition Method Based on Machine Learning and Fisher Vector Coding -- A Local Occlusion Face Image Recognition Algorithm -- Based on the Recurrent Neural Network -- Analysis of the Training Method for the Time-of-time of the Movement Based on the Wireless -- Moving target location method of video image based on computer vision -- Design of Anti-interference Control system for vacuum Packaging Machine based on Wireless Network -- Design of sealing Transformer for vacuum Packaging -- Mchine based on single Chip Microcomputer Control -- Image Segmentation Technology of Marathon Motion Video based on Machine Learning -- Research on the Adaptive Tracking Method for the Tracking of the Track of the Long-jump Athletes -- Application of Big Data's Association Rules in the Analysis of Sports Competition Tactics -- Identification and Analysis of Limb Swing Image in Short Run Training Based on Visual Signal Processing -- Intelligent agricultural information remote data storage method based on block chain -- Design of multi-parameter monitoring system for intelligent agriculture greenhouse based on artificialintelligence -- Design of Agricultural Network Information Resource Sharing System Based on Internet of Things -- An Evaluation Model of the Efficiency of AgriculturallInformation Resources Allocation in the Big Data Environment -- Seamless and fast panoramic image generation system based on VR technology -- Analysis on behavior characteristics of enterprise financing investment risk data -- Web Database Sharing Platform Design Based on Large Data Visualization of Learning Behavior. Network APT Attack Detection Based on Big DataAnalysis.-Two Particle filter-based INS/LiDAR-integrated mobile robot localization -- Design of parametric CAD system for ceramic productsbased on virtual reality technology -- Numerical simulation of remaining oil distribution based on oil field data analysis.-Multiple Frame CT Image Sequencing Big Data Batch Clustering Method -- Research on scale space fusion method of medical big data video image -- Data Mining Method of Malicious Attack Based onCharacteristic Frequency -- Research on image recognition algorithm based on depth level feature -- Research on Shadow Detection Method of InfraredRemote Sensing Image Based on Artificial Intelligence -- Research on Fault Intelligent Detection Technology of Dynamic Knowledge Network Learning System.-Design of Buoy Positioning System for Ocean Monitoring Based on Visual Feature Recognition -- Application of Iridium Data Communication System inInformation Transmission of Ocean Monitoring Buoy -- Virtual Force Coverage ControlSystem of Wireless Sensor Network in the Background of Big Data.-Heuristic Network Similarity Measurement Model Based on Cloud Computing -- Study on the Preparation of the Precursor of the Li-ionScreen Based on Big Data Analysis -- Bigdata Fast extraction method of Lithium Ion screen Non-full-load Logistics Vehicle Based on the Monitor Image.-Research on Short-term Load Forecasting Based on PCA-GM -- Research on Preprocessing Algorithm of Two-cameraFace Recognition Attendance Image Based on Artificial Intelligence -- Research on Military Intelligence Value EvaluationMethod Based on Big Data Analysis -- Design and Simulation of Power Grid Energy Saving

Control Model.-Design and Improvement of Optimal Control Model for Wireless Sensor Network Nodes -- A Decision Model for Substation Equipment MaintenanceBased on Correlation Set Decomposition -- Research on Information Security Monitoring and Early Warning Mechanism of Internet Application Network Basedon Particle Swarm Optimization -- A multiple sclerosis recognition via Hu Moment Invariant and artificial neural network trained by Particle SwarmOptimization -- Digital Image Processing, Analysis and Application Based onMachine Learning.-Teeth category classification by Fractional Fourier Entropy and Improved Hybrid Genetic Algorithm -- Hearing Loss Identification via Fractional Fourier Entropy.-Gingivitis classification via Wavelet entropy and Support Vector Machine -- Data fusion filter and Machine Learning for Statistical SignalProcessing -- LiDAR/DR-integrated mobile robot localizationemploying IMM-EKF/PF filtering.-Review on Flocking Control -- Detection of High Voltage Transmission Lines: A Surveyand Perspective.-Image Processing-Based Electronic Fence: A Review -- Tightly INS/UWB combined indoor AGV positioning in LOS/NLOS environment.-Prediction Analysis of Soluble Solids Content in Apples Based on Wavelet Packet Analysis and BP Neural Network -- Research on Positioning Accuracy of Indoor and OutdoorPedestrian Seamless Navigation.

Sommario/riassunto

This two-volume book constitutes the refereed proceedings of the Second International Conference on Multimedia Technology and Enhanced Learning, ICMTEL 2020, held in Leicester, United Kingdom, in April 2020. Due to the COVID-19 pandemic all papers were presented in YouTubeLive. The 83 revised full papers have been selected from 158 submissions. They describe new learning technologies which range from smart school, smart class and smart learning at home and which have been developed from new technologies such as machine learning, multimedia and Internet of Things.
