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Disciplina	005.3
Soggetti	Application software Education - Data processing Computer networks Artificial intelligence Computer engineering Computer and Information Systems Applications Computers and Education Computer Communication Networks Artificial Intelligence Computer Engineering and Networks
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Nota di contenuto	AI-based Data Processing, Intelligent Control and Their Applications; Information Techniques for Social/Natural Application -- Intelligent Application in Education; Research on Multithreaded Data Scheduling Control Method for Power Communication Based on Wireless Sensor -- Recognition method of metal material pitting defect based on visual signal processing -- Research on Detection Method of Internal Defects of Metal Materials Based on Computer Vision -- Error correction method for rotating axis of large rotating machinery based on machine vision -- Simulation study on tensile mechanical properties of

graphene based on long and short-term memory neural network -- Intelligent scheduling of distributed displacement pipeline based on hybrid discrete Drosophila optimization algorithm -- Research on grid planning method of distribution network based on artificial intelligence technology -- Intelligent Monitoring Method for Backstage Data Security of Tourism Information Promotion Platform Based on Cloud Computing -- 10 Research on industrial product modeling design method based on deep learning -- A Frequency Conversion Circuit for Piezoelectric Vibrating Energy Harvesting -- An adaptive optimization strict reverse navigation algorithm for ship fine alignment process -- Research on load feature extraction method of typical users based on deep learning -- Enterprise Financial Risk Early Warning System Based on Catastrophe Progression Method -- Research on Transportation Route Planning Method of Regional Logistics Network Based on Transfer Learning -- Simultaneous localization of multiple defects in software testing based on reinforcement learning -- Design of Embedded Network Human Machine Interface Based on VR Technology -- Sliding Mode Adaptive Control for Sensorless Permanent Magnet Synchronous -- An Improved Detection Method of Safety Helmet Wearing Based on CenterNet -- Information Techniques for Social/Natural Application 21 Influence Maximization based on True Threshold in Social Networks -- An Exemplar-based Clustering Model with Loose Constraints in Social Network -- Personal Name Disambiguation for Chinese Documents in Online Medium -- Research on behavior characteristics of festival tourists in Jianye District of Nanjing Based on big data -- Application of GNSS Virtual Reference Station in Poyang Lake Area -- Cruise Tourism Prosperity Index based on Principal Component Analysis Interactive evolution model of industrial cluster and regional innovation based on LSTM -- Design of Hotel Marketing Information Management Model Based on Deep Learning -- Design of Intelligent Dispatching System for Logistics Distribution Vehicles Based on Transfer Learning -- Design of supply chain resource distribution allocation model based on deep learning -- Arabic Question-Answering System Using Search Engine Techniques -- Adaptive Encryption Model of Internet Public Opinion Information Based on Big Data -- Intelligent classification system of financial statistics information based onrecurrent neural network -- Design and Implementation of Financial Management Analysis Based on Big Data Platform of Psychiatric Hospital -- Study of Measurement and Inverse Prediction Methods of Heat Storage Efficiency for the Wood Heating Floor -- Apple classification based on information fusion of internal and external qualities -- Apple defect detection method based on convolution neural network -- Information Fusion and Their Applications -- Lidar/IMU Integrated Navigation and Positioning Method -- Indoor Positioning and Navigation Methods Based on Mobile Phone Camera -- PD controller of a lower limb exoskeleton robot based on sliding mode RBF neural network -- Verification of deformation measurement method based on FBG sensor -- Air Alignment Method of Guided projectile based on INS/BDS -- Motion constraint aided underwater integrated navigation method based on improved adaptive filtering -- High-Precision Calibration and Error Estimation of RLG SINS -- Design of an interactive LiDAR-visionintegrated navigation system -- Research on Residential Power Consumption Behavior Based on Typical Load Pattern -- A Comparative Study of REST with SOAP -- Matrix Profile Evolution: An Initial Overview -- LS-SVM/federated EKF based on the distributed INS/UWB integrated 2D localization -- LiDAR Map Construction using improved R-T-S Smoothing assisted Extended Kalman Filter -- Path planning method

for unmanned surface vehicle based on RRT* and DWA Xiaotian.

Sommario/riassunto	This two-volume book constitutes the refereed proceedings of the 3rd International Conference on Multimedia Technology and Enhanced Learning, ICMTEL 2021, held in April 2021. Due to the COVID-19 pandemic the conference was held virtually. The 97 revised full papers have been selected from 208 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.