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Note generali Includes index.

Nota di contenuto Flower Species Recognition System Combining Object Detection and Attention Mechanism -- A Person-Following Shopping Support Robot Based on Human Pose Skeleton Data and LiDAR Sensor -- A New Hybrid Calibration Method for Robot Manipulators by Combining Model–Based Identification Technique and A Radial Basis Function–Based Error Compensation -- Smart Wheelchair Maneuvering Among People -- A human-robot interaction system based on calling hand gestures -- A Welding Defect Identification Approach in X-ray Images Based on Deep Convolutional Neural Networks -- Person Re-identification Based On Feature Fusion -- Exploiting Local Shape Information for Cross-Modal Person Re-identification -- Single and Multi-channel Direct Visual Odometry with Binary Descriptors -- Performance Evaluation of Faster R-CNN for On-Road Object detection on Graphical Processing Unit and

Central Processing unit -- Research on Full Homomorphic Encryption Algorithm for Integer in Cloud Environment -- Implementation of a centralized scheduling algorithm for IEEE 802.15.4e TSCH -- Learning Automata-based Solutions to the Multi-Elevator Problem -- Developing System from Low-Cost Devices to Build a Security and Fire System as a Part of IoT -- Full-Order Sliding Mode Control Algorithm for Robot Manipulators Using an Adaptive Radial Basis Function Neural Network -- Continuous PID Sliding Mode Control Based on Neural Third Order Sliding Mode Observer for Robotic Manipulators -- Intelligent Bus Shunt Control System Based on Face Recognition -- Tilt-Scrolling: A Comparative Study of Scrolling Techniques for Mobile Devices -- Optimizing Self-Organizing Lists-on-Lists using Pursuit-Oriented Enhanced Object Partitioning -- Research on Location Prediction of Moving Objects Based on Grey Markov Model -- Mildew Prediction Model of Warehousing Tobacco Based on Particle Swarm Optimization and BP Neural Network -- Exploring the pan-relationship between disease and symptom related to coronary heart disease from Chinese electronic medical records -- The Actuator and Sensor Fault Estimation Using Robust Observer Based Reconstruction for Mini Motion Pack-age Electro-Hydraulic Actuator -- The Actuator Fault Estimation Using Robust Sliding Mode Observer for Linear System Applied To Mini Mo-tion Package Electro-Hydraulic Actuator -- A Fault Tolerant Strategy Based on Model Predictive Control for Full Bidirectional Switches Indirect Matrix Converter -- Rotary Machine Fault Diagnosis using Scalogram Imageand Convolutional Neural Network with BatchNormalization -- Real Implementation of an Active Fault Tolerant Control based on Super Twisting Technique for a Robot Manipulator -- Credibility Assessment of Complex Simulation Models using Cloud Models to Represent and Aggregate Diverse Evaluation Results -- Dual Sparse Collaborative Matrix Factorization Method Based on Gaussian Kernel Function for Predicting LncRNA-Disease Associations -- Applying Support Vector Machine, C5.0, and CHAID to the Detection of Financial Statements Frauds -- A New Manifold-based Feature Extraction Method -- lncRNA-LSTM: Prediction of Plant Long Non-coding RNAs Using Long Short-Term Memory Based on p-nts Encoding -- Prediction of Plant lncRNA-protein Interactions Using Sequence Information Based on Deep Learning -- Predicting of Drug-disease Associations via Sparse auto- encoder-based Rotation Forest -- A Novel Compression Algorithm forHardware-Oriented Gradient Boosting DecisionTree Classification Model -- MISSIM: improved miRNA-disease association prediction model based on Chaos Game Representation and Broad Learning System -- Univariate Thiele type continued fractions rational interpolation with parameters -- Data Science approaches for the analysis of animal behaviours -- An algorithm of bidirectional RNN for offline handwritten Chinese text -- A Novel Concise Representation of Frequent Subtrees Based on Density -- Ranking Research Institutions Based on the Combination of Individual and Network Features -- Chinese Temporal Expression Recognition Combining Rules with a Statistical model -- An Optimization Regression Model for Predicting Average Temperature of Core Dead Stock Column -- A selection method for denoising auto encoder features using cross entropy -- Data Lineage Approach of Multi-Version Documents Traceability in Complex Software Engineering -- Resource Efficiency Optimization for Big Data Mining Algorithm with Multi-MapReduce Collaboration Scenario -- A Fuzzy Constraint Based Method for Outlier Detection -- Chinese Agricultural Entity Relation Extraction via Deep Learning -- Dimensions Effect in Word Embeddings of Knowledge Graph -- Short text mapping based on fast clustering using minimum spanning trees

-- Missing Data Imputation for Operation Data of Transformer Based on Functional Principal Component Analysis and Wavelet Transform -- Periodic Action Temporal Location Method Based on Two-Path Architecture for Product Counting in Sewing Video -- Investigating the Capability of Agile processes to Support Medical Devices Regulations: The Case of XP, Scrum, and FDD with EU MDR Regulations -- Age Group Detection in Stochastic Gas Smart Meter Data using Decision-Tree Learning -- Non-directional learning strategy particle swarm optimization algorithm -- An Improved Social Learning Particle Swarm Optimization Algorithm with Selected Learning -- An Integrated Classification Algorithm Using Forecasting Probability Strategies for Mobile App Statistics -- An improved PSO algorithm with an area-oriented learning strategy -- An Improved PSO Algorithm with Migration Behavior and Asynchronous Varying Acceleration Coefcient -- Data Clustering Using the Cooperative Search based Artificial Bee Colony Algorithm -- Feature Selection using a Reinforcement-Behaved Brain Storm Optimization -- Shuffle Single Shot Detector -- Feasibility of a non-immersive virtual reality training on functional living skills applied to person with major neurocognitive disorder -- Design and development of a robotic platform based on virtual reality scenarios and wearable sensors for upper limb rehabilitation and visuomotor coordination -- Depth-Awareness in a System for Mixed-RealityAided Surgical Procedures -- An Innovative Neural Network Framework For Glomerulus Classification Based On Morphological And Texture Features Evaluated In Histological Images Of Kidney Biopsy -- Evaluating generalization capability of Bio-inspired models for a myoelectric control: a pilot study -- A Survey on Deep Learning in Electromyographic Signal Analysis -- Occluded Object Classification with Assistant Unit -- Water Wave Optimization for Flow-Shop Scheduling -- The Implementation of Pretrained AlexNet On PCG Classification -- Power supply and its expert system for cold welding of aluminum and magnesium sheet metal.

| Sommario/riassunto | This two-volume set of LNCS 11643 and LNCS 11644 constitutes - in conjunction with the volume LNAI 11645 - the refereed proceedings of the 15th International Conference on Intelligent Computing, ICIC 2019, held in Nanchang, China, in August 2019. The 217 full papers of the three proceedings volumes were carefully reviewed and selected from 609 submissions. The ICIC theme unifies the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications. The theme for this conference is "Advanced Intelligent Computing Methodologies and Applications." Papers related to this theme are especially solicited, including theories, methodologies, and applications in science and technology. |