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Soggetti	Artificial intelligence Numerical analysis Computer vision Algorithms Artificial Intelligence Numerical Analysis Computer Vision
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Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Optimization Algorithms -- Parameters Identification of Solar Cells Based on Classification Particle Swarm Optimization Algorithm -- A Quantum-Inspired Genetic K-Means Algorithm for Gene Clustering -- Spark Parallel Acceleration-based Optimal Scheduling for Air Compressor Group -- A PSO Based Technique for Optimal Integration of DG into the Power Distribution System -- Online Data-driven Surrogate-Assisted Particle Swarm Optimization for Traffic Flow Optimization -- Neurodynamics, Complex Systems, and Chaos -- Complex Dynamic Behaviors in a Discrete Chialvo Neuron Model Induced by Switching Mechanism -- Multi-Resolution Statistical Shape Models for Multi-Organ Shape Modelling -- A Neural Network for Distributed Optimization over Multiagent Networks -- Dynamically Weighted Model Predictive Control of Affine Nonlinear Systems Based on Two-timescale Neurodynamic Optimization -- An Efficient Method

of Advertising on Online Social Networks -- Supervised/Unsupervised/Reinforcement Learning/Deep Learning -- Semantic Modulation Based Residual Network for Temporal Language Queries -- Grounding in Video -- AITwo: Vehicle Recognition in Foggy Weather Based on Two-step Recognition Algorithm -- Development of a Drought Prediction System Based on Long Short-Term Memory Networks (LSTM) -- Deep Point Cloud Odometry: a Deep Learning Based Odometry with 3D Laser Point Clouds -- Models, Methods and Algorithms -- Imputation of Incomplete Data Based on Attribute Cross Fitting Model and Iterative Missing Value Variables -- Adaptive Gaussian Noise Injection Regularization for Neural Networks -- Pattern Recognition Based on Improved Szmidt and Kacprzyk's Correlation Coefficient in Pythagorean Fuzzy Environment -- On Position and Attitude Control of Flapping Wing Micro-Aerial Vehicle -- Supply Chain Financing Model with Data Analysis under the Third-party Partial Guarantee -- Signal, Image and Video Processing -- Detecting Apples in Orchards Using YOLOv3 and YOLOv5 inGeneral and Close-up Images -- Robust Graph Regularized Non-negative Matrix Factorization for Image Clustering -- ContourRend: A Segmentation Method for Improving Contours by Rendering -- Edge Information Extraction of Overlapping Fiber Optical Microscope Imaging Based on Modified Watershed Algorithm -- A Visually Impaired Assistant using Neural Network and Image Recognition with Physical Navigation.

Sommario/riassunto

This volume LNCS 12557 constitutes the refereed proceedings of the 17th International Symposium on Neural Networks, ISNN 2020, held in Cairo, Egypt, in December 2020. The 24 papers presented in the two volumes were carefully reviewed and selected from 39 submissions. The papers were organized in topical sections named: optimization algorithms; neurodynamics, complex systems, and chaos; supervised/unsupervised/reinforcement learning/deep learning; models, methods and algorithms; and signal, image and video processing.
