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Soggetti	Artificial intelligence Optical data processing Computers Computer security Computer organization Algorithms Artificial Intelligence Image Processing and Computer Vision Information Systems and Communication Service Systems and Data Security Computer Systems Organization and Communication Networks Algorithm Analysis and Problem Complexity
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Nota di contenuto	Neural Computation -- Style Neutralization Generative Adversarial Classifier -- How Good a Shadow Neural Network is for Solving Non-linear Decision Making Problems -- Predicting Seminal Quality using Back-Propagation Neural Networks with Optimal Feature Subsets -- Deep Learning based Recommendation Algorithm in Online Medical Platform -- The Prediction Model of Saccade Target Based on LSTM-CRF for Chinese Reading -- Visual Cognition Inspired Vehicle Re-identification via Correlative Sparse Ranking with Multi-view Deep

Features -- Fully Automatic Synaptic Cleft Detection and Segmentation From EM Images based on Deep Learning -- Deep Background Subtraction of Thermal and Visible Imagery for Pedestrian Detection in Videos -- Recent Advances in Deep Learning for Single Image Super-Resolution -- Using GAN to augment the synthesizing images from 3D models -- Deep Learning Based Single Image Super-resolution: A Survey -- DAU-GAN: Unsupervised object transfiguration via Deep Attention Unit -- Gravitational Search Optimized Hyperspectral Image Classification with Multilayer Perceptron -- 3-D Gabor Convolutional Neural Network for Damage Mapping from Post-earthquake High Resolution Images -- Biologically Inspired Systems -- A study of the role of attention in classifying covert and overt motor activities -- Attend to Knowledge: Memory-enhanced Attention Network for Image Captioning -- Direction Guided Cooperative Coevolutionary Differential Evolution Algorithm for Cognitive Modelling of Ray Tracing in Separable High Dimensional Space -- P300 brain waves instigated semi supervised video surveillance for inclusive security systems -- Motor Imagery EEG Recognition Based on FBCSP and PCA -- A Hybrid Brain-Computer Interface System Based on Motor Imageries and Eye-blinking -- Goal-directed behavior control based on the mechanism of neuromodulation -- Automated analysis of chest radiographs for cystic fibrosis scoring -- Mismatching Elimination Algorithm in SIFT Based on Function Fitting -- Novel Group Variable Selection for Salient Skull Region Selection and Sex Determination -- AFSnet: Fixation Prediction in Movie Scenes with Auxiliary Facial Saliency -- A Visual Attention Model based on Human Visual Cognition -- An Extended Common Spatial Pattern Framework for EEG-Based Emotion Classification -- CSA-DE/EDA: A Clonal Selection Algorithm Using Differential Evolution and Estimation of Distribution Algorithm -- Early Identification of Alzheimer's Disease Using An Ensemble of 3D Convolutional Neural Networks and Magnetic Resonance Imaging -- Image Recognition: Detection, Tracking and Classification -- A Novel Semi-Supervised Classification Method Based on Class Certainty of Samples -- Texture Profiles and Composite Kernel Frame for Hyperspectral Image Classification -- High-resolution Image Classification using the Dynamic Differential Evolutionary Algorithm Optimized Multi-Scale Kernel Support Vector Machine Method -- Eigenface Algorithm-Based Facial Expression Recognition in Conversations - An Experimental Study -- Unsupervised Hyperspectral Band Selection Based on maximum Information Entropy and Determinantal Point Process -- Dense Pyramid Network for Semantic Segmentation of High Resolution Aerial Imagery -- Gaussian-Staple for Robust Visual Object Real-Time Tracking -- Saliency-Weighted Global-Local Fusion for Person Re-identification -- Spectral and Spatial Kernel Extreme Learning Machine for Hyperspectral Image Classification -- Local-Global Extraction Unit for Person Re-Identification -- Robust image corner detection based on maximum point–to–chord distance -- Fabric Defect Detection based on Sparse Representation Image Decomposition -- Salient Superpixel Visual Tracking with Coarse-to-Fine Segmentation and Manifold Ranking -- A Regenerated Feature Extraction Method for Cross-modal Image Registration -- Bottom-up Saliency Prediction by Simulating End-stopping with Log-Gabor -- Learning Collaborative Sparse Correlation Filter for Real-time Multispectral Object Tracking -- Saliency Detection via Multi-view Synchronized Manifold Ranking -- Robust Visual Tracking via Sparse Feature Selection and Weight Dictionary Update -- Saliency Detection via Bidirectional Absorbing Markov Chain -- Pedestrian Detection Based on HOG,LBP Features and Visual Saliency -- Data Analysis and Natural Language Processing --

Hadoop Massive Small File Merging Technology Based on Visiting Hot-spot and Associated File Optimization -- A Reversible Data Hiding Scheme Using Compressive Sensing and Random Embedding -- An Abnormal Behavior Clustering Algorithm Based on K-means -- Manifold-regularized Adaptive Lasso -- SentiALG: Automated Corpus Annotation for Algerian Sentiment Analysis -- Self-Validated Story Segmentation of Chinese Broadcast News -- Improved Big Data Analytics Solution Using Deep Learning Model and Real-Time Sentiment Data Analysis Approach -- A Semi-Supervised Corpus Annotation for Saudi Sentiment Analysis using Twitter -- Exploiting Deep Learning for Persian Sentiment Analysis -- Big Data Analytics and Mining for Crime Data Analysis, Visualization and Prediction -- Comparison of Sentiment analysis approaches using modern Arabic and Sudanese Dialect -- An Intelligent Question Answering System for University Courses Based on BiLSTM and Keywords Similarity -- A Method for Calculating Patent Similarity Using Patent Model Tree Based on Neural Network -- An Optimal Solution of Storing and Processing Small Image Files on Hadoop -- A Big Data Analytics Platform for Information Sharing in the Connection between Administrative Law and Criminal Justice -- Applications -- RST I Invariant W Watermarking S Scheme Using Genetic Algorithm and DWT-SVD -- Application of VPN Based on L2TP and User's Access Rights in Campus Network -- Improved reversible data hiding in JPEG images based on interval correlation -- Representing RCPBAC(Role-Involved Conditional Purpose-based Access Control) in Ontology and SWRL -- Real-time Image Deformation Using Locally-weighted Moving Least Squares -- Machine-learning-based Malware Detection for Virtual Machine by Analyzing Opcode Sequence -- A Trusted Connection Authentication Reinforced By Bayes Algorithm -- A Proactive Caching Strategy Based on Deep Learning in EPC of 5G -- Dynamic Hybrid Approaching for Robust Hand-Eye Calibration -- Statistical Analysis Driven Optimized Deep Learning System for Intrusion Detection -- Comparing Event Related Arousal-Valence and Focus among Different Viewing Perspectives in VR gaming -- A Novel Loop Subdivision for Continuity Surface -- Making Industrial Robots Smarter with Adaptive Reasoning and Autonomous Thinking for Real-Time Tasks in Dynamic Environments: A Case Study -- Shading Structure-Guided Depth Image Restoration -- Machine Learning for Muon Imaging -- Night View Road Scene Enhancement based on Mixed Multi-Scale Retinex and Fractional differentiation -- Traffic Image defogging based on Bit-plane Decomposition -- The Simulation of Non-Gaussian Scattering on Rough Sea Surface -- Distributed Multi-node of Fuzzy Control Considering Adjacent Node Effect for Temperature Control -- An Improved Tentative Q learning Algorithm for Robot Learning. .

Sommario/riassunto

This book constitutes the refereed proceedings of the 9th International Conference on Advances in Brain Inspired Cognitive Systems, BICS 2018, held in Xi'an, China, in July 2018. The 83 papers presented in this volume were carefully reviewed and selected from 137 submissions. The papers were organized in topical sections named: neural computation; biologically inspired systems; image recognition: detection, tracking and classification; data analysis and natural language processing; and applications.