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Nota di contenuto	Does Social Network always Promote Entrepreneurial Intentions? Part II: Empirical Analysis -- Rasterization System for Mobile Device -- Study on Rasterization Algorithm for Graphics Acceleration System -- Simultaneous Learning of Several Bayesian and Mahalanobis Discriminant Functions by a Neural Network with Memory Nodes -- Reinforcement of Keypoint Matching by Co-segmentation in Object Retrieval: Face Recognition Case Study -- Effect of Luminance Gradients in Measurement of Differential Limen -- Robust Controller

for Flexible Specifications Using Difference Signals and Competitive Associative Nets -- Moments of Predictive Deviations as Ensemble Diversity Measures to Estimate the Performance of Time Series Prediction -- Self-Organized Three Dimensional Feature Extraction of MRI and CT -- OMP or BP? A Comparison Study of Image Fusion Based on Joint Sparse Representation.- An Improved Approach to Super Resolution Based on PET Imaging -- Pedestrian Analysis and Counting System with Videos -- Vehicle License Plate Localization and License Number Recognition Using Unit-Linking Pulse Coupled Neural Network -- ROI-HOG and LBP Based Human Detection via Shape Part-Templates Matching -- Matrix Pseudoinversion for Image Neural Processing -- Learn to Swing Up and Balance a Real Pole Based on Raw Visual Input Data -- GPU-Based Biclustering for Neural Information Processing -- Color Image Segmentation Based on Regional Saliency -- Mass Classification in Digitized Mammograms Using Texture Features and Artificial Neural Network.- Image Dehazing Algorithm Based on Atmosphere Scatters Approximation Model -- Design of a Data-Oriented PID Controller for Nonlinear Systems -- Improving the Robustness of Single-View-Based Ear Recognition When Rotated in Depth -- Implementation of Face Selective Attention Model on an Embedded System -- From Image Annotation to Image Description -- Computer Aided Writing – A Framework Supporting Research Tasks, Topic Recommendations and Text Readability -- Aspect-Oriented Design and Implementation of Secure Agent Communication System -- Texture Segmentation Based on Neuronal Activation Degree of Visual Model.- One-Dimensional-Array Millimeter-Wave Imaging of Moving Targets for Security Purpose Based on Complex-Valued Self-Organizing Map (CSOM) -- Global Optimal Selection of Web Composite Services Based on UMDA -- Multistep Speaker Identification Using Gibbs-Distribution-Based Extended Bayesian Inference for Rejecting Unregistered Speaker -- Chinese HowNet-Based Multi-factor Word Similarity Algorithm Integrated of Result Modification -- Composite Data Mapping for Spherical GUI Design: Clustering of Must-Watch and No-Need TV Programs -- Analysis of Intrusion Detection in Control System Communication Based on Outlier Detection with One-Class Classifiers -- Mobile Web Browsing Techniques -- Multiple Sections Extraction Using Visual Cue -- Iterative Appearance Learning with Online Multiple Instance Learning -- Exploring Crude Oil Impacts to Oil Stocks through Graphical Computational Correlation Analysis -- Learning Visual Saliency Based on Object's Relative Relationship -- Template Matching Based Video Tracking System Using a Novel -- Step Search Algorithm and HOG Features.- Local Structure Divergence Index for Image Quality Assessment -- Feature and Signal Enhancement for Robust Speaker Identification of G.729 Decoded Speech -- Early-Vision-Inspired Method to Distinguish between Handwritten and Machine-Printed Character Images Using Hough Transform -- Unitary Anomaly Detection for Ubiquitous Safety in Machine Health Monitoring. - FusGP: Bayesian Co-learning of Gene Regulatory Networks and Protein Interaction Networks -- An Image Representation Method Based on Retina Mechanism for the Promotion of SIFT and Segmentation -- Attach Topic Sense to Social Tags -- Emotion Recognition Using the Emotiv EPOC Device -- Botnet Detection Based on Non-negative Matrix Factorization and the MDL Principle -- Fusion of Multiple Texture Representations for Palmprint Recognition Using Neural Networks -- Adaptive Neural Networks Control on Ship's Linear-Path Following -- Direct Robust Adaptive NN Tracking Control for Double Inverted Pendulums -- Clustering with Uncertainties: An Affinity Propagation-Based Approach -- Online Vigilance Analysis Combining Video and

Electrooculography Features -- Sensorless Speed Control of Hysteresis Motor Based on Model Reference Adaptive System and Luenberger Observer Techniques -- Using Hybrid Neural Networks for Identifying the Brain Abnormalities from MRI Structural Images -- ANN for Multilingual Regional Web Communication -- Integration of Face Detection and User Identification with Visual Speech Recognition -- Smart Phone Based Machine Condition Monitoring System -- Spatio-temporal LTSA and Its Application to Motion Decomposition -- Cost-Effective Single-Camera Multi-Car Parking Monitoring and Vacancy Detection towards Real-World Parking Statistics and Real-Time Reporting -- Effect of Facial Feature Points Selection on 3D Face Shape Reconstruction Using Regularization -- Human Posture Recognition with the Stochastic Cognitive RAM Network -- Entropy Based Image Semantic Cycle for Image Classification -- Fuzzy Particle Swarm Optimization for Intrusion Detection -- Dual-Feature Bayesian MAP Classification: Exploiting Temporal Information for Video-Based Face Recognition -- Robot Dancing: Adapting Robot Dance to Human Preferences -- Secure Distributed Storage for Bulk Data -- A Multi-modal Face and Signature Biometric Authentication System Using a Max-of-Scores Based Fusion -- A Set of Geometrical Features for Writer Identification -- Comparative Analysis of Clustering Algorithms Applied to the Classification of Bugs -- DNS-Based Defense against IP Spoofing Attacks -- MOTIF-RE: Motif-Based Hypernym/Hyponym Relation Extraction from Wikipedia Links -- Behavior Analysis of Long-Term Cyber Attacks in the Darknet -- Clock Synchronization Protocol Using Resonate-and-Fire Type of Pulse-Coupled Oscillators for Wireless Sensor Networks -- Neuro-Cryptanalysis of DES and Triple-DES -- An Expanded HP Memristor Model for Memristive Neural Network -- Aimbot Detection in Online FPS Games Using a Heuristic Method Based on Distribution Comparison Matrix -- An Improved NN Training Scheme Using Two-Stage LDA Features for Face Recognition.- Medical Image Thresholding Using Online Trained Neural Networks -- Subspace Echo State Network for Multivariate Time Series Prediction -- A Framework of a Route Optimization Scheme for Nested Mobile Network -- Pathway-Based Multi-class Classification of Lung Cancer -- Spontaneous Emergence of the Intelligence in an Artificial World -- Adaptive Backstepping Neural Control for Switched Nonlinear Stochastic System with Time-Delay Based on Extreme Learning Machine -- Clustering Based on Rank Distance with Applications on DNA -- Petrophysical Parameters Estimation from Well-Logs Data Using Multilayer Perceptron and Radial Basis Function Neural Networks -- Lithofacies Classification Using the Multilayer Perceptron and the Self-organizing Neural Networks. Rasterization System for Mobile Device -- Study on Rasterization Algorithm for Graphics Acceleration System -- Simultaneous Learning of Several Bayesian and Mahalanobis Discriminant Functions by a Neural Network with Memory Nodes -- Reinforcement of Keypoint Matching by Co-segmentation in Object Retrieval: Face Recognition Case Study -- Effect of Luminance Gradients in Measurement of Differential Limen -- Robust Controller for Flexible Specifications Using Difference Signals and Competitive Associative Nets -- Moments of Predictive Deviations as Ensemble Diversity Measures to Estimate the Performance of Time Series Prediction -- Self-Organized Three Dimensional Feature Extraction of MRI and CT -- OMP or BP? A Comparison Study of Image Fusion Based on Joint Sparse Representation.- An Improved Approach to Super Resolution Based on PET Imaging -- Pedestrian Analysis and Counting System with Videos -- Vehicle License Plate Localization and License Number Recognition Using Unit-Linking Pulse Coupled Neural Network

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Sommario/riassunto

The five volume set LNCS 7663, LNCS 7664, LNCS 7665, LNCS 7666 and LNCS 7667 constitutes the proceedings of the 19th International Conference on Neural Information Processing, ICONIP 2012, held in Doha, Qatar, in November 2012. The 423 regular session papers presented were carefully reviewed and selected from numerous submissions. These papers cover all major topics of theoretical research, empirical study and applications of neural information processing research. The 5 volumes represent 5 topical sections containing articles on theoretical analysis, neural modeling, algorithms, applications, as well as simulation and synthesis.
