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Nota di contenuto	On the Optimization of Multiclass Support Vector Machines Dedicated to Speech Recognition -- Time Series Prediction Method Based on LS-SVR with Modified Gaussian RBF -- An Improved Method of Identification Based on Thermal Palm Vein Image -- Modelling Energy Use and Fuel Consumption in Wheat Production Using Indirect Factors and Artificial Neural Networks -- A Gaussian Mixture Model Based System for Detection of Macula in Fundus Images -- The Brain's Sequential Parallelism: Perceptual Decision-Making and Early Sensory

Responses -- Estimating Neural Firing Rates: An Empirical Bayes Approach -- Assessment of Financial Risk Prediction Models with Multi-criteria Decision Making Methods -- Improving Risk Predictions by Preprocessing Imbalanced Credit Data -- Hybrid Validation of Handwriting Process Modelling -- Off-Line Handwritten Arabic Word Recognition Using SVMs with Normalized Poly Kernel -- Bayesian Modeling of Visual Attention -- Classifier Ensemble Using a Heuristic Learning with Sparsity and Diversity -- Optimization of SIRMs Fuzzy Model Using Lukasiewicz Logic -- Synchronization of Hopfield Like Chaotic Neural Networks with Structure Based Learning -- Incremental Self-Organizing Map (iSOM) in Categorization of Visual Objects -- The Elastic Net as Visual Category Representation: Visualisation and Classification -- A Computational Model for Development of Post-Traumatic Stress Disorders by Hebbian Learning -- Power-Law Scaling of Synchronization Robustly Reproduced in the Hippocampal CA3 Slice Culture Model with Small-World Topology -- A Dynamic Bio-inspired Model of Categorization -- Improving Support Vector Machine Using a Stochastic Local Search for Classification in DataMining -- Variety of Cortical Pathways Formed by Topographic Neural Projection: A Computational Study -- Identification of Neural Network Structure from Multiple Spike Sequences -- Time Domain Parameters for Online Feedback fNIRS-Based Brain-Computer Interface Systems -- Embedding Relevance Vector Machine in Fuzzy Inference System for Energy Consumption Forecasting -- GMM-ClusterForest: A Novel Indexing Approach for Multi-features Based Similarity Search in High-Dimensional Spaces -- A Regularized Linear Classifier for Effective Text Classification -- A Real-Time, Event Driven Neuromorphic System for Goal-Directed Attentional Selection -- Analog Neural Network Approach for Source Localization Using Time-of-Arrival Measurements -- Construction of Decision Trees by Using Feature Importance Value for Improved Learning Performance -- Wavelet Transform Based Consonant - Vowel (CV) Classification Using Support Vector Machines -- Using Agent Based Modeling and Simulation for Data Mining -- Neurodynamical Top-Down Processing during Auditory Attention -- A Hybrid Visualization-Induced Self-Organizing Map for Multi Dimensional Reduction and Data Visualization -- Human-Like Intuitive Playing in Board Games -- Identification of Diffusion Coefficient in Nonhomogeneous Landscapes -- Data Discretization for Dynamic Bayesian Network Based Modeling of Genetic Networks -- Generation of Environmental Representation of a Large Indoor Parking Lot. Survey on Simplified Olfactory Bionic Model to Generate Texture Images -- An Improved Method to Calculate Phase Locking Value Based on Hilbert-Huang Transform and Its Application -- A Novel Hierarchical Statistical Model for Count Data Modeling and Its Application in Image Classification -- Multitask Twin Support Vector Machines -- Bandit-Based Structure Learning for Bayesian Network Classifiers -- Modeling the Mental Differentiation Task with EEG -- Office-Space-Allocation Problem Using Harmony Search Algorithm -- A Unified Framework of Binary Classifiers Ensemble for Multi-class Classification -- An Orientation Detection Model Based on Fitting from Multiple Local Hypotheses -- Avoiding Catastrophic Forgetting by a Biologically Inspired Dual-Network Memory Model -- Color Fractal Structure Model for Reduced-Reference Colorful Image Quality Assessment -- Validation Based Sparse Gaussian Processes for Ordinal Regression -- Cross-Subject Classification of Speaking Modes Using fNIRS -- Temporal Finite-State Machines: A Novel Framework for the General Class of Dynamic Networks -- A Novel Node Splitting Criteria for Decision Trees Based on Theil Index -- Modeling of Polycaprolactone

Production from Lukasiewicz Logic -- Synchronization of Hopfield Like Chaotic Neural Networks with Structure Based Learning -- Incremental Self-Organizing Map (iSOM) in Categorization of Visual Objects -- The Elastic Net as Visual Category Representation: Visualisation and Classification -- A Computational Model for Development of Post-Traumatic Stress Disorders by Hebbian Learning -- Power-Law Scaling of Synchronization Robustly Reproduced in the Hippocampal CA3 Slice Culture Model with Small-World Topology -- A Dynamic Bio-inspired Model of Categorization -- Improving Support Vector Machine Using a Stochastic Local Search for Classification in DataMining -- Variety of Cortical Pathways Formed by Topographic Neural Projection: A Computational Study -- Identification of Neural Network Structure from Multiple Spike Sequences -- Time Domain Parameters for Online Feedback fNIRS-Based Brain-Computer Interface Systems -- Embedding Relevance Vector Machine in Fuzzy Inference System for Energy Consumption Forecasting -- GMM-ClusterForest: A Novel Indexing Approach for Multi-features Based Similarity Search in High-Dimensional Spaces -- A Regularized Linear Classifier for Effective Text Classification -- A Real-Time, Event Driven Neuromorphic System for Goal-Directed Attentional Selection -- Analog Neural Network Approach for Source Localization Using Time-of-Arrival Measurements -- Construction of Decision Trees by Using Feature Importance Value for Improved Learning Performance -- Wavelet Transform Based Consonant - Vowel (CV) Classification Using Support Vector Machines -- Using Agent Based Modeling and Simulation for Data Mining -- Neurodynamical Top-Down Processing during Auditory Attention -- A Hybrid Visualization-Induced Self-Organizing Map for Multi Dimensional Reduction and Data Visualization -- Human-Like Intuitive Playing in Board Games -- Identification of Diffusion Coefficient in Nonhomogeneous Landscapes -- Data Discretization for Dynamic Bayesian Network Based Modeling of Genetic Networks -- Generation of Environmental Representation of a Large Indoor Parking Lot. Survey on Simplified Olfactory Bionic Model to Generate Texture Images -- An Improved Method to Calculate Phase Locking Value Based on Hilbert-Huang Transform and Its Application -- A Novel Hierarchical Statistical Model for Count Data Modeling and Its Application in Image Classification -- Multitask Twin Support Vector Machines -- Bandit-Based Structure Learning for Bayesian Network Classifiers -- Modeling the Mental Differentiation Task with EEG -- Office-Space-Allocation Problem Using Harmony Search Algorithm -- A Unified Framework of Binary Classifiers Ensemble for Multi-class Classification -- An Orientation Detection Model Based on Fitting from Multiple Local Hypotheses -- Avoiding Catastrophic Forgetting by a Biologically Inspired Dual-Network Memory Model -- Color Fractal Structure Model for Reduced-Reference Colorful Image Quality Assessment -- Validation Based Sparse Gaussian Processes for Ordinal Regression -- Cross-Subject Classification of Speaking Modes Using fNIRS -- Temporal Finite-State Machines: A Novel Framework for the General Class of Dynamic Networks -- A Novel Node Splitting Criteria for Decision Trees Based on Theil Index -- Modeling of Polycaprolactone Production from -Caprolactone Using Neural Network -- Global Reweighting and Weight Vector Based Strategy for Multiclass Boosting -- Suppression of Functional System with Markovian Switching -- P-Order Normal Cloud Model: Walking on the Way between Gaussian and Power Law Distributions -- A Novel Method of Sparse Least Squares Support Vector Machines in Class Empirical Feature Space -- Semantic De-biased Associations (SDA) Model to Improve III-Structured Decision Support -- Echo State Networks and Extreme Learning Machines: A

Comparative Study on Seasonal Streamflow Series Prediction -- Delay-Dependent Stabilization of Uncertain Distributed Systems with Interval Time-Varying Delay -- GARF: Towards Self-optimised Random Forests -- TaskRec: Probabilistic Matrix Factorization in Task Recommendation in Crowdsourcing Systems -- Feature Selection for Electricity Load Prediction -- Statistical and Machine Learning Methods for Electricity Demand Prediction -- EnerPlan: Smart Energy Management Planning for Home Users -- Harnessing Chaotic Activation Functions in Training Neural Network -- Self-correcting Symmetry Detection Network -- Parallel Support Vector Configuration for Identification of Fast Independent Components in Morphological Patterns Derived by Cardiovasographic Analysis on the Radial Pulse -- Energy-Based Temporal Neural Networks for Imputing Missing Values -- Emergence of Multi-step Discrete State Transition through Reinforcement Learning with a Recurrent Neural Network -- Collaborative Generative Topographic Mapping -- Rule Extraction from Ensemble Methods Using Aggregated Decision Trees -- Classification of Power Quality Disturbances Using Artificial Neural Networks and a Logarithmically Compressed S-Transform -- Multi-Threaded Support Vector Machines for Pattern Recognition -- A Malware Collection and Analysis Framework Based on Darknet Traffic -- Markovian Models for Electrical Load Prediction in Smart Buildings -- Extension of Incremental Linear Discriminant Analysis to Online Feature Extraction under Nonstationary Environments -- Multivariate Isotonic Regression under Tree Semi-order Restrictions and Test in Multivariate Normal Distribution -- Consonantal Recognition Using SVM and a Hierarchical Decision Structure Based in the Articulatory Phonetics -- SVM-Based Just-in-Time Ad.

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.
