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Nota di contenuto	Neural Network Learning for Blind Source Separation with Application in Dam Safety Monitoring -- Improved BTC Algorithm for Gray Scale Images Using K-Means Quad Clustering -- Optimization of a Neural Network for Computer Vision Based Fall Detection with Fixed-Point Arithmetic -- Customer Relationship Management Using Partial Focus Feature Reduction -- An Automated System for the Grading of Diabetic Maculopathy in Fundus Images -- An Iterative Method for a Class of

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Healthcare Infrastructure -- Power and Task Management in Wireless Body Area Network Based Medical Monitoring Systems -- Feature Saliency for Neural Networks: Comparing Algorithms.- Adaptive Modeling of HRTFs Based on Reinforcement Learning -- Damage Pattern Recognition of Refractory Materials Based on BP Neural Network.- Robust and Optimum Features for Persian Accent Classification Using Artificial Neural Network -- Identification of Factors Characterising Volatility and Firm-Specific Risk Using Ensemble Classifiers -- Fuzzy Classification-Based Control of Wheelchair Using EEG Data to Assist People with Disabilities.- EEG-Based Emotion Recognition in Listening Music by Using Support Vector Machine and Linear Dynamic System -- Analysis of Genetic Disease Hemophilia B by Using Support Vector Machine -- EEG-Based Fatigue Classification by Using Parallel Hidden Markov Model and Pattern Classifier Combination -- A Novel Approach to Protein Structure Prediction Using PCA or LDA Based Extreme Learning Machines.- Hierarchical Parallel PSO-SVM Based Subject-Independent Sleep Apnea Classification.- Air Quality Monitoring and Prediction System Using Machine-to-Machine Platform. - An Extension of the Consensus-Based Bundle Algorithm for Group Dependant Tasks with Equipment Dependencies -- From e-Learning to m-Learning: Context-Aware CBR System -- Extreme Learning Machines for Intrusion Detection Systems -- A Self-Organizing Maps Multivariate Spatio-temporal Approach for the Classification of Atmospheric Conditions -- An Online Signature Verification System for Forgery and Disguise Detection -- A Modular Approach to Support the Multidisciplinary Design of Educational Game Experiences -- Touch-Based Mobile Phone Interface Guidelines and Design Recommendations for Elderly People: A Survey of the Literature -- A Novel Paradigm for Mining Cell Phenotypes in Multi-tag Bioimages Using a Locality Preserving Nonlinear Embedding -- SNEOM: A Sanger Network Based Extended Over-Sampling Method. Application to Imbalanced Biomedical Datasets -- Abductive Neural Network Modeling for Hand Recognition Using Geometric Features -- Designing Serious Games for Adult Students with Cognitive Disabilities -- Neural Network Based Approach for Automotive Brake Light Parameter Estimation -- A Single Neuron Model for Pattern Classification -- Continuous Classification of Spatio-temporal Data Streams Using Liquid State Machines -- On the Selection of Time-Frequency Features for Improving the Detection and Classification of Newborn EEG Seizure Signals and Other Abnormalities -- Turf Grass Irrigation Using Neuro-Fuzzy System -- A Target-Reaching Controller for Mobile Robots Using Spiking Neural Networks -- Assessing Reliability of Substation Spare Current Transformer System -- Study on Supply Disruption Management of Supply Chain Based on Case-Based Reasoning -- Global Minimizer of Large Scale Stochastic Rosenbrock Function: Canonical Duality Approach -- Study on Landslide Deformation Prediction Based on Recurrent Neural Network under the Function of Rainfall -- Vehicle Image Classification Based on Edge: Features and Distances Comparison. Improved BTC Algorithm for Gray Scale Images Using K-Means Quad Clustering -- Optimization of a Neural Network for Computer Vision Based Fall Detection with Fixed-Point Arithmetic -- Customer Relationship Management Using Partial Focus Feature Reduction -- An Automated System for the Grading of Diabetic Maculopathy in Fundus Images -- An Iterative Method for a Class of Generalized Global Dynamical System Involving Fuzzy Mappings in Hilbert Spaces -- Estimation of Missing Precipitation Records Using Modular Artificial Neural Networks -- Office Employees Authentication Based on E-exam Techniques -- Obtaining Single Document Summaries Using Latent Dirichlet Allocation -- Object

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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.
