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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Kernel and Statistical Methods -- A New Ensemble Clustering Method based on Dempster-Shafer Evidence Theory and Gaussian Mixture Modeling -- Extraction of Dimension Reduced Features from Empirical Kernel Vector -- Method of Evolving Non-stationary Multiple Kernel Learning -- A kernel method to extract common features based on mutual information -- Properties of Text-Prompted Multistep Speaker Verification Using Gibbs-Distribution-Based Extended Bayesian Inference for Rejecting Unregistered Speakers -- Non-Monotonic Feature Selection for Regression -- Non-negative Matrix Factorization with Schatten p-norms Regularization -- A New Energy Model for the Hidden Markov Random Fields -- Online nonlinear Granger causality

detection by quantized kernel least mean square -- A Computational Model of Anti-Bayesian Sensory Integration in the Size-Weight Illusion -- Unsupervised Dimensionality Reduction for Gaussian Mixture Model -- Graph Kernels exploiting Weisfeiler-Lehman Graph Isomorphism Test Extensions -- Texture analysis based automated decision support System for classification of Skin Cancer using SA-SVM -- In-attention State Monitoring for a Driver Based On Head Pose and Eye Blinking Detection Using One Class Support Vector Machine -- An Improved Separating Hyperplane Method with Application to Embedded Intelligent Devices -- Fine-Grained Air Quality Monitoring Based on Gaussian Process Regression -- Retrieval of Experiments by Efficient Estimation of Marginal Likelihood -- Evolutionary Computation and Hybrid Intelligent Systems -- A New Approach of Diversity Enhanced Particle Swarm Optimization with Neighborhood Search and Adaptive Mutation -- Data Clustering Based on Particle Swarm Optimization with Neighborhood Search and Cauchy Mutation -- Accuracy Improvement of Localization and Mapping of ICP-SLAM Via Competitive Associative Nets and Leave-One-Out Cross-Validation -- Saliency Level Set Evolution -- Application of Cuckoo Search for Design Optimization of Heat Exchangers -- A Hybrid Method to Improve the Reduction of Ballistocardiogram Artifact from EEG Data -- VLGAAC: Variable Length Genetic Algorithm based Alternative Clustering -- Social Book Search with Pseudo-Relevance Feedback -- A Random Key Genetic Algorithm for Live Migration of Multiple Virtual Machines in Data Centers -- Collaboration of the Radial Basis ART and PSO in Multi-Solution Problems of the Henon Map -- Reconstructing Gene Regulatory Network with Enhanced Particle Swarm Optimization -- Neural Network Training by Hybrid Accelerated Cuckoo Particle Swarm Optimization Algorithm -- An Accelerated Particle Swarm Optimization Based Levenberg Marquardt Back Propagation Algorithm -- Fission-and-Recombination Particle Swarm Optimizers for Search of Multiple Solutions -- Fast Generalized Fuzzy C-means Using Particle Swarm Optimization for Image Segmentation -- Evolutionary Learning and Stability of Mixed-Rule Cellular Automata -- Pattern Recognition Techniques -- Radical-Enhanced Chinese Character Embedding -- Conditional Multidimensional Parameter Identification with Asymmetric Correlated Losses of Estimation Errors -- Short Text Hashing Improved by Integrating Topic Features and Tags -- Synthetic test data generation for hierarchical graph clustering methods -- Optimal Landmark Selection for Nystrom Approximation -- Privacy Preserving Clustering: A k-Means Type Extension -- Stream Quantiles via Maximal Entropy Histograms -- A Unified Framework for Thermal Face Recognition -- Geometric Feature-based Facial Emotion Recognition using Two-Stage Fuzzy Reasoning Model -- Human Activity Recognition by Matching Curve Shapes -- Sentiment Analysis of Chinese Microblogs Based on Layered Features -- Feature group weighting and topological biclustering -- A Label Completion Approach to Crowd Approximation -- Multi-label Linear Discriminant Analysis with Locality Consistency -- Hashing for Financial Credit Risk Analysis -- MAP Inference with MRF by Graduated Non-Convexity and Concavity Procedure -- Two-Phase Approach to Link Prediction -- Properties of Direct Multi-Step Ahead Prediction of Chaotic Time Series and Out-of-Bag Estimate for Model Selection -- Multi-document Summarization based on Sentence Clustering -- An Ontology-based Approach to Query Suggestion Diversification -- Sensor Drift Compensation Using Fuzzy Interference System and Sparse-Grid Quadrature Filter in Blood Glucose Control -- Segmenting Webpage using Ontology and Word Matching for segments detection -- Continuity of Discrete-time Fuzzy

Systems -- Sib-based Survival Selection Technique for Protein Structure Prediction in 3D-FCC lattice Model -- Tensor Completion based on Structural Information -- Document Versioning Using Feature Space Distances -- Separation and Classification of Crackles and Bronchial Breath sounds from Normal Breath Sounds Using Gaussian Mixture Model -- Combined Features for Face Recognition in Surveillance Conditions -- Sparse Coding on Multiple Manifold Data -- Mutual Information Estimation with Random Forests -- Out-of-vocabulary Words Recognition Based on Conditional Random Field in Electronic Commerce -- Least angle regression in orthogonal case -- Evaluation Protocol of Early Classifiers Over Multiple Data Sets -- Exploiting Level-Wise Category Links for Semantic Relatedness Computing -- Characteristic Prediction of A Varistor in Overvoltage Protection Application -- Optimizing Complex Building Renovation Process with Fuzzy Signature State Machines -- News classification with Auxiliary Long Texts -- Modelling Mediator Intervention in Joint Decision Making Processes Involving Mutual Empathic Understanding.

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Sommario/riassunto

The three volume set LNCS 8834, LNCS 8835, and LNCS 8836 constitutes the proceedings of the 20th International Conference on Neural Information Processing, ICONIP 2014, held in Kuching, Malaysia, in November 2014. The 231 full papers presented were carefully reviewed and selected from 375 submissions. The selected papers cover major topics of theoretical research, empirical study, and applications of neural information processing research. The 3 volumes represent topical sections containing articles on cognitive science, neural networks and learning systems, theory and design, applications, kernel and statistical methods, evolutionary computation and hybrid intelligent systems, signal and image processing, and special sessions intelligent systems for supporting decision, making processes, theories and applications, cognitive robotics, and learning systems for social network and web mining.

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