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Altri autori (Persone)	HancockEdwin R
Disciplina	006.4
Soggetti	Artificial intelligence Computer programming Application software Information storage and retrieval systems Database management Algorithms Artificial Intelligence Programming Techniques Computer and Information Systems Applications Information Storage and Retrieval Database Management
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Formato	Materiale a stampa
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Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Talks -- From Region Based Image Representation to Object Discovery and Recognition -- Learning on Manifolds -- Classification and Trees -- Structural Patterns in Complex Networks through Spectral Analysis -- Structural Descriptions -- Graph Embedding Using an Edge-Based Wave Kernel -- A Structured Learning Approach to Attributed Graph Embedding -- Machine Learning -- Combining

Elimination Rules in Tree-Based Nearest Neighbor Search Algorithms --  
Localized Projection Learning -- Entropy-Based Variational Scheme for  
Fast Bayes Learning of Gaussian Mixtures -- Structural Learning --  
Learning Graph Quantization -- High-Dimensional Spectral Feature  
Selection for 3D Object Recognition Based on Reeb Graphs --  
Dissimilarity-Based Multiple Instance Learning -- A Game Theoretic  
Approach to Learning Shape Categories and Contextual Similarities --  
Poster Session -- A Comparison between Two Representatives of a Set  
of Graphs: Median vs. Barycenter Graph -- Impact of Visual Information  
on Text and Content Based Image Retrieval -- Automatic Traffic  
Monitoring from Satellite Images Using Artificial Immune System --  
Graduated Assignment Algorithm for Finding the Common Labelling of  
a Set of Graphs -- Affinity Propagation for Class Exemplar Mining --  
Guided Informative Image Partitioning -- Visual Alphabets on Different  
Levels of Abstraction for the Recognition of Deformable Objects --  
Graph Embedding Based on Nodes Attributes Representatives and a  
Graph of Words Representation -- Extracting Plane Graphs from Images  
-- Indexing Tree and Subtree by Using a Structure Network --  
Attributed Graph Matching for Image-Features Association Using SIFT  
Descriptors -- A Causal Extraction Scheme in Top-Down Pyramids for  
Large Images Segmentation -- Fast Population Game Dynamics for  
Dominant Sets and Other Quadratic Optimization Problems -- What Is  
the Complexity of a Network? The Heat Flow-Thermodynamic Depth  
Approach -- New Partially Labelled Tree Similarity Measure: A Case  
Study -- Complete Search Space Exploration for SITG Inside Probability  
-- Commute-Time Convolution Kernels for Graph Clustering --  
Geometric Methods -- Non-Euclidean Dissimilarities: Causes and  
Informativeness -- Non-parametric Mixture Models for Clustering --  
Structural Methods for Vision -- A Probabilistic Approach to Spectral  
Unmixing -- A Game-Theoretic Approach to the Enforcement of Global  
Consistency in Multi-view Feature Matching -- An Algorithm for  
Recovering Camouflage Errors on Moving People -- Clustering --  
Semi-supervised Clustering Using Heterogeneous Dissimilarities -- On  
Consensus Clustering Validation -- Pairwise Probabilistic Clustering  
Using Evidence Accumulation -- Exploring the Performance Limit of  
Cluster Ensemble Techniques -- Contour Grouping by Clustering with  
Multi-feature Similarity Measure -- Poster Session -- A Psychophysical  
Evaluation of Texture Degradation Descriptors -- Content-Based Tile  
Retrieval System -- Performance Improvement in Multiple-Model  
Speech Recognizer under Noisy Environments -- On Feature  
Combination for Music Classification -- Information Theoretical Kernels  
for Generative Embeddings Based on Hidden Markov Models --  
Dynamic Linear Combination of Two-Class Classifiers -- Large-Scale  
Text to Image Retrieval Using a Bayesian K-Neighborhood Model --  
Maximum a Posteriori Based Kernel Classifier Trained by Linear  
Programming -- Improvement of the Disc Harmonic Moments  
Descriptor by an Exponentially Decaying Distance Transform -- Feature  
Level Fusion of Face and Palmprint Biometrics -- Scale and Rotation  
Invariant Detection of Singular Patterns in Vector Flow Fields -- Using  
K-NN SVMs for Performance Improvement and Comparison to K-  
Highest Lagrange Multipliers Selection -- Automatic Speech  
Segmentation Based on Acoustical Clustering -- An Efficient Iris and  
Eye Corners Extraction Method -- Dissimilarity-Based Methods -- An  
Empirical Comparison of Kernel-Based and Dissimilarity-Based Feature  
Spaces -- The Dissimilarity Representation as a Tool for Three-Way  
Data Classification: A 2D Measure -- Regularising the Ricci Flow  
Embedding -- Spherical Embedding and Classification -- Language --  
Language Detection and Tracking in Multilingual Documents Using

Weak Estimators -- Similarity Word-Sequence Kernels for Sentence Clustering -- Bayesian Adaptation for Statistical Machine Translation -- A Generative Score Space for Statistical Dialog Characterization in Social Signalling -- Multiple Classifiers -- A Modular Approach to Training Cascades of Boosted Ensembles -- A Linear Combination of Classifiers via Rank Margin Maximization -- Combination of Dichotomizers for Maximizing the Partial Area under the ROC Curve -- Graphs -- Ihara Coefficients: A Flexible Tool for Higher Order Learning -- A New Spectral Bound on the Clique Number of Graphs -- Large Sample Statistics in the Domain of Graphs -- Statistical Pattern Recognition -- Analysis of the Multi-Dimensional Scale Saliency Algorithm and Its Application to Texture Categorization -- Interactive Image Retrieval Using Smoothed Nearest Neighbor Estimates -- Kernel Fusion of Multiple Histogram Descriptors for Robust Face Recognition -- Structural Methods for OCR -- Efficient OCR Post-Processing Combining Language, Hypothesis and Error Models -- Rejection Threshold Estimation for an Unknown Language Model in an OCR Task -- A New Editing Scheme Based on a Fast Two-String Median Computation Applied to OCR.

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### Sommario/riassunto

This volume in the Springer Lecture Notes in Computer Science (LNCS) series contains the papers presented at the S+SSPR 2010 Workshops, which was the seventh occasion that SPR and SSPR workshops have been held jointly. S+SSPR 2010 was organized by TC1 and TC2, Technical Committees of the International Association for Pattern Recognition (IAPR), and held in Cesme, Izmir, which is a seaside resort on the Aegean coast of Turkey. The conference took place during August 18–20, 2010, only a few days before the 20th International Conference on Pattern Recognition (ICPR) which was held in Istanbul. The aim of the series of workshops is to create an international forum for the presentation of the latest results and exchange of ideas between researchers in the fields of statistical and structural pattern recognition. SPR 2010 and SSPR 2010 received a total of 99 paper submissions from many different countries around the world, giving it a truly international perspective, as has been the case for previous S+SSPR workshops. This volume contains 70 accepted papers, 39 for oral and 31 for poster presentation. In addition to parallel oral sessions for SPR and SSPR, there were two joint oral sessions of interest to both SPR and SSPR communities. Furthermore, to enhance the workshop experience, there were two joint panel sessions on “Structural Learning” and “Clustering,” in which short author presentations were followed by discussion. Another innovation this year was the filming of the proceedings by Videotapes.

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