1. Record Nr. UNINA9910484440003321

Titolo	Progress in pattern recognition, image analysis and applications : 11th Iberoamerican Congress in Pattern Recognition, CIARP 2006, Cancun, Mexico, November 14-17, 2006 : proceedings / / Jose Francisco Martinez-Trinidad, Jesus Ariel Carrasco Ochoa, Josef Kittler (eds.)
Pubbl/distr/stampa	Berlin ; ; New York, : Springer, c2006
ISBN	3-540-46557-X
Edizione	[1st ed. 2006.]
Descrizione fisica	1 online resource (XIX, 995 p.)
Collana	Lecture notes in computer science, , 0302-9743 ; ; 4225 LNCS sublibrary. SL 6, Image processing, computer vision, pattern recognition, and graphics
Altri autori (Persone)	Martinez TrinidadJose Francisco Carrasco OchoaJesus Ariel KittlerJosef <1946->
Disciplina	006.4
Soggetti	Pattern recognition systems Image processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Skeletonization of Digital Objects -- Maximin Initialization for Cluster Analysis -- Case-Based Object Recognition with Application to Biological Images -- A New Method of Illumination Normalization for Robust Face Recognition -- A Fast Method for Localization of Local Illumination Variations and Photometric Normalization in Face Images -- Gender Classification Using Principal Geodesic Analysis and Gaussian Mixture Models -- Gender Classification of Faces Using Adaboost -- General Pose Face Recognition Using Frontal Face Model -- Approximating 3D Facial Shape from Photographs Using Coupled Statistical Models -- A Comparative Study of Face Representations in the Frequency Domain -- Face Recognition with Region Division and Spin Images -- Extraction of Blood Vessels in Ophthalmic Color Images of Human Retinas -- A Fast Adaboosting Based Method for Iris and Pupil Contour Detection -- In-Vivo IVUS Tissue Classification: A Comparison Between RF Signal Analysis and Reconstructed Images -- Smoothing Segmented Lung Boundary in Chest CT Images Using Scan Line Search -- Automated Ultrasonic Measurement of Fetal Nuchal

Translucency Using Dynamic Programming -- A Method for Detection and Modeling of the Human Spine Based on Principal Curvatures -- Linear Radial Patterns Characterization for Automatic Detection of Tonic Intestinal Contractions -- A Machine Learning Framework Using SOMs: Applications in the Intestinal Motility Assessment -- From Lossy to Lossless Wavelet Image Coding in a Tree-Based Encoder with Resolution Scalability -- 3D Mumford-Shah Based Active Mesh -- Fast 2D-3D Point-Based Registration Using GPU-Based Preprocessing for Image-Guided Surgery -- GA–SSD–ARC–NLM for Parametric Image Registration -- Eigenconjugation: An Approach for Computing Image Similarity -- Image Contrast Enhancement Based on Block-Wise Intensity-Pair Distribution with Two Expansion Forces -- Guiding a Bottom-Up Visual Attention Mechanism to Locate Specific Image Regions Using a Distributed Genetic Optimization -- ORIENT-CAM, A Camera That Knows Its Orientation and Some Applications -- Irregular Pyramid Segmentations with Stochastic Graph Decimation Strategies -- Color Texture Segmentation by Decomposition of Gaussian Mixture Model -- Texture Features and Segmentation Based on Multifractal Approach -- Object Segmentation Using Growing Neural Gas and Generalized Gradient Vector Flow in the Geometric Algebra Framework -- A Clustering Based Approach for Automatic Image Segmentation: An Application to Biplane Ventriculograms -- An Image Segmentation Algorithm Using Iteratively the Mean Shift -- A Robust Region Based Level Set Framework for Medical Image Segmentation -- Color Texture Segmentation Based on Quaternion-Gabor Features -- Corner Detection by Searching Two Class Pattern Substrings -- Model-Based Localization Method by Non-speech Sound Via Wavelet Transform and Dynamic Neural Network -- An Application of Neural Networks for Image Reconstruction in Electrical Capacitance Tomography Applied to Oil Industry -- Combining Neural Networks for Gait Classification -- Training of Multilayer Perceptron Neural Networks by Using Cellular Genetic Algorithms -- Combining Neural Networks and Clustering Techniques for Object Recognition in Indoor Video Sequences -- Evaluation of Time and Frequency Domain-Based Methods for the Estimation of Harmonics-to-Noise-Ratios in Voice Signals -- A Combined Classifier of Cry Units with New Acoustic Attributes -- Practical Considerations for Real-Time Implementation of Speech-Based Gender Detection -- On the Processing of Fuzzy Patterns for Text Independent Phonetic Speech Segmentation -- A RLS Filter for Nonuniformity and Ghosting Correction of Infrared Image Sequences -- Correlation Filters for Detection and Localization of Objects in Degraded Images -- Statistical Recursive Filtering Estimation of Detector Offset Nonuniformity in Infrared Imaging Systems -- 3D Vector Directional Filters to Process Video Sequences -- Object Recognition and Tracking in Video Sequences: A New Integrated Methodology -- Conceptual K-Means Algorithm Based on Complex Features -- Spatial Data Description by Means of Knowledge-Based System -- Search Method of Time Sensitive Frequent Itemsets in Data Streams -- Image Compression Algorithm Based on Morphological Associative Memories -- A Novel Approach to Automatic Color Matching -- The Associative Recall of Spatial Correlated Patterns -- Associative Memories Applied to Image Categorization -- Robustness Analysis of the Neural Gas Learning Algorithm -- Feature Selection Based on Mutual Correlation -- Oscillating Feature Subset Search Algorithm for Text Categorization -- Two Step Ant Colony System to Solve the Feature Selection Problem -- Simultaneous Features and Objects Selection for Mixed and Incomplete Data -- Selecting Objects for ALVOT -- Feature Extraction Using Clustering of Protein -- A

Theoretical Comparison of Two Linear Dimensionality Reduction Techniques -- A New Approach to Multi-class Linear Dimensionality Reduction -- Automatic Band Selection in Multispectral Images Using Mutual Information-Based Clustering -- Orientation Invariant Features for Multiclass Object Recognition -- On the Design and Implementation of a High Performance Configurable Architecture for Testor Identification -- Proposal for a Unified Methodology for Evaluating Supervised and Non-supervised Classification Algorithms -- Monte Carlo Evaluation of the Hausdorff Distance for Shape Matching -- A Fast Probabilistic Model for Hypothesis Rejection in SIFT-Based Object Recognition -- Diagnosis of Chronic Idiopathic Inflammatory Bowel Disease Using Bayesian Networks -- Learning Variability of Image Feature Appearance Using Statistical Methods -- Probabilistic Shot Boundary Detection Using Interframe Histogram Differences -- A Probabilistic Approach to Build 2D Line Based Maps from Laser Scans in Indoor Environments -- Egomotion Estimation as an Appearance-Based Classification Problem -- Decoding of Ternary Error Correcting Output Codes -- Context-Based Gesture Recognition -- Spectral Median Graphs Applied to Graphical Symbol Recognition -- Deterministic Tourist Walks as an Image Analysis Methodology Based -- Approaches to Classification of Multichannel Images -- Fast Fingerprint Matching Based on the Novel Structure Combining the Singular Point with Its Neighborhood Minutiae -- A New Nearest Neighbor Rule for Text Categorization -- Alignment of Paragraphs in Bilingual Texts Using Bilingual Dictionaries and Dynamic Programming -- Document Mining Based on Semantic Understanding of Text -- Authorship Attribution Using Word Sequences -- Document Representation Based on Maximal Frequent Sequence Sets -- Building an Optimal WSD Ensemble Using Per-Word Selection of Best System -- Pixel-Wise Histograms for Visual Segment Description and Applications -- eVLBI Development in TIGO -- Satellite Tracks Removal in Astronomical Images -- Detection of Coding Regions in Large DNA Sequences Using the Short Time Fourier Transform with Reduced Computational Load -- Time Series Pattern Recognition Based on MAP Transform and Local Trend Associations -- System Classification by Using Discriminant Functions of Time-Frequency Features -- Gabor Kernels for Textured Image Representation and Classification -- Local Linear Approximation for Kernel Methods: The Railway Kernel -- Fusion of Gaussian Kernels Within Support Vector Classification -- Support Vector Machine with External Recurrences for Modeling Dynamic Cerebral Autoregulation -- An Approach to Automatic Target Recognition in Radar Images Using SVM -- Analysis of Algebraic Expressions Derived from Genetic Multivariate Polynomials and Support Vector Machines: A Case Study -- Image Compression by a Time Enhanced Self Organizing Map.