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Titolo	Pattern Recognition and Image Analysis : Third Iberian Conference, IbPRIA 2007, Girona, Spain, June 6-8, 2007, Proceedings, Part I // edited by Joan Martí, José M. Benedí, Ana M. Mendonça, Joan Serrat
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Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics, , 3004-9954 ; ; 4477
Disciplina	006.42
Soggetti	Pattern recognition systems Computer vision Natural language processing (Computer science) Artificial intelligence Computer graphics Automated Pattern Recognition Computer Vision Natural Language Processing (NLP) Artificial Intelligence Computer Graphics
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Known Unknowns: Novelty Detection in Condition Monitoring -- Seeing the Invisible and Predicting the Unexpected -- Vision-Based SLAM in Real-Time -- Handwritten Symbol Recognition by a Boosted Blurred Shape Model with Error Correction -- Bayesian Hyperspectral Image Segmentation with Discriminative Class Learning -- Comparison of Unsupervised Band Selection Methods for Hyperspectral Imaging -- Learning Mixture Models for Gender Classification Based on Facial Surface Normals -- Feature Selection Based on a New Formulation of the Minimal-Redundancy-Maximal-Relevance Criterion -- Topological Histogram Reduction Towards Colour Segmentation -- Dealing with Non-linearity in Shape Modelling of Articulated Objects -- Human

Motion Characterization Using Spatio-temporal Features -- Fast Stochastic Context-Free Parsing: A Stochastic Version of the Valiant Algorithm -- Supervised Segmentation Based on Texture Signatures Extracted in the Frequency Domain -- Analysis of Relevant Maxima in Distance Transform. An Application to Fast Coarse Image Segmentation -- Performance Analysis of Classifier Ensembles: Neural Networks Versus Nearest Neighbor Rule -- Robust Multiple-People Tracking Using Colour-Based Particle Filters -- Structure Restriction for Tracking Through Multiple Views and Occlusions -- On the Detection of Regions-of-Interest in Dynamic Contrast-Enhanced MRI -- Dealing with the Perspective Distortion to Detect Overtaking Cars for Driving Assistance -- 3D Reconstruction on MRI to Analyse Marbling and Fat Level in Iberian Loin -- Epiflow Based Stereo Fusion -- Automatic Segmentation of the Liver in CT Using Level Sets Without Edges -- Spectral Modes of Facial Needle-Maps -- Classifiers for Vegetation and Forest Mapping with Low Resolution Multispectral Imagery -- A Robust Audio Fingerprint's Based Identification Method -- Development of a Methodology for Automated Crater Detection on Planetary Images -- Rao-Blackwellized Particle Filter for Human Appearance and Position Tracking -- Parameter System for Human Physiological Data Representation and Analysis -- Face Recognition in Color Using Complex and Hypercomplex Representations -- A Semi-automatic Approach to Photo Identification of Wild Elephants -- Language Identification Based on Phone Decoding for Basque and Spanish -- Computer Assisted Transcription of Speech -- Word Segments in Category-Based Language Models for Automatic Speech Recognition -- Part-of-Speech Tagging Based on Machine Translation Techniques -- Bilingual Text Classification -- Robust Lane Lines Detection and Quantitative Assessment -- Matrics, a Car License Plate Recognition System -- Automatic Labeling of Colonoscopy Video for Cancer Detection -- Functional Pattern Recognition of 3D Laser Scanned Images of Wood-Pulp Chips -- Hardware Implementation of Moment Functions in a CMOS Retina: Application to Pattern Recognition -- Decimation Estimation and Linear Model-Based Super-Resolution Using Zoomed Observations -- Line Extraction from Mechanically Scanned Imaging Sonar -- Road Signs Recognition by the Scale-Space Template Matching in the Log-Polar Domain -- The Condition of Kernelizing an Algorithm and an Equivalence Between Kernel Methods -- A Probabilistic Observation Model for Stereo Vision Systems: Application to Particle Filter-Based Mapping and Localization -- New Neighborhood Based Classification Rules for Metric Spaces and Their Use in Ensemble Classification -- Classification of Voltage Sags Based on MPCA Models -- On-Line Handwriting Recognition System for Tamil Handwritten Characters -- A New Type of Feature – Loose N-Gram Feature in TextCategorization -- Variational Deconvolution of Multi-channel Images with Inequality Constraints -- HMM-Based Action Recognition Using Contour Histograms -- Locating and Segmenting 3D Deformable Objects by Using Clusters of Contour Fragments -- Development of a Cascade Processing Method for Microarray Spot Segmentation -- Haar Wavelets and Edge Orientation Histograms for On-Board Pedestrian Detection -- Face Recognition Using Principal Geodesic Analysis and Manifold Learning -- Optimized Associative Memories for Feature Selection -- Automatic Construction of Fuzzy Rules for Modelling and Prediction of the Central Nervous System -- A Clustering Technique for Video Copy Detection -- Invariant Multi-scale Object Categorisation and Recognition -- Combination of N-Grams and Stochastic Context-Free Grammars in an Offline Handwritten Recognition System -- Phrase-Based Statistical Machine Translation Using Approximate

Matching -- Motion Segmentation from Feature Trajectories with Missing Data -- Segmentation of Rigid Motion from Non-rigid 2D Trajectories -- Hierarchical Eyelid and Face Tracking -- Automatic Learning of Conceptual Knowledge in Image Sequences for Human Behavior Interpretation -- A Comparative Study of Local Descriptors for Object Category Recognition: SIFT vs HMAX -- Moment-Based Pattern Representation Using Shape and Grayscale Features -- Parsimonious Kernel Fisher Discrimination -- Explicit Modelling of Invariances in Bernoulli Mixtures for Binary Images -- Computer Vision Approaches to Pedestrian Detection: Visible Spectrum Survey -- A Decision-Tree-Based Online Speaker Clustering -- Classification of Continuous Heart Sound Signals Using the Ergodic Hidden Markov Model -- A Protocol to Cipher Digital Images Based on Cat Maps and Cellular Automata -- Perceptually-Based Functions for Coarseness Textural Feature Representation -- Vehicle Trajectory Estimation Based on Monocular Vision -- A Neural Network Model for Image Change Detection Based on Fuzzy Cognitive Maps -- Semiring Lattice Parsing Applied to CYK -- Constrained Monocular Obstacle Perception with Just One Frame.

Sommario/riassunto

Part of a two-volume set, this book constitutes the refereed proceedings of the Third Iberian Conference on Pattern Recognition and Image Analysis, IbPRIA 2007, held in Girona, Spain in June 2007. It covers pattern recognition, human language technology, special architectures and industrial applications, motion analysis, image analysis, biomedical applications, shape and texture analysis, 3D, and image coding and processing.
