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| 1. Record Nr.           | UNINA9910483779903321  |
| Titolo                  | Advances in Machine Vision, Image Processing, and Pattern Analysis : International Workshop on Intelligent Computing in Pattern Analysis/Synthesis, IWICPAS 2006, Xi'an, China, August 26-27, 2006, Proceedings // edited by Nanning Zheng, Xiaoyi Jiang, Xuguang Lan  |
| Pubbl/distr/stampa      | Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2006   |
| ISBN                    | 3-540-37598-8  |
| Edizione                | [1st ed. 2006.]  |
| Descrizione fisica      | 1 online resource (XIV, 514 p.)  |
| Collana                 | Image Processing, Computer Vision, Pattern Recognition, and Graphics, , 3004-9954 ; ; 4153   |
| Altri autori (Persone)  | ZhengNanning<br>JiangXiaoyi<br>LanXuguang  |
| Disciplina              | 006.3/7  |
| Soggetti                | Computer vision<br>Image processing - Digital techniques<br>Pattern recognition systems<br>Artificial intelligence<br>Algorithms<br>Computer Vision<br>Computer Imaging, Vision, Pattern Recognition and Graphics<br>Automated Pattern Recognition<br>Artificial Intelligence  |
| 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       | Object Detection, Tracking and Recognition -- Robust Tracking with and Beyond Visible Spectrum: A Four-Layer Data Fusion Framework -- Scale Space Based Grammar for Hand Detection -- Combined Classifiers for Action Recognition -- Adaptive Sparse Vector Tracking Via Online Bayesian Learning -- Iterative Division and Correlograms for Detection and Tracking of Moving Objects -- Human Pose Estimation from Polluted Silhouettes Using Sub-manifold Voting Strategy -- Kernel Modified Quadratic Discriminant Function for Facial Expression Recognition -- 3D Motion from Image Derivatives Using the Least |

Trimmed Square Regression -- Motion and Gray Based Automatic Road Segment Method MGARS in Urban Traffic Surveillance -- A Statistically Selected Part-Based Probabilistic Model for Object Recognition -- Approximate Vehicle Waiting Time Estimation Using Adaptive Video-Based Vehicle Tracking -- Mouth Region Localization Method Based on Gaussian Mixture Model -- Traffic Video Segmentation Using Adaptive-K Gaussian Mixture Model -- EM-in-M: Analyze and Synthesize Emotion in Motion -- Pattern Representation and Modeling -- Discriminant Transform Based on Scatter Difference Criterion in Hidden Space -- Looking for Prototypes by Genetic Programming -- Identifying Single Good Clusters in Data Sets -- A New Simplified Gravitational Clustering Method for Multi-prototype Learning Based on Minimum Classification Error Training -- Speaker Identification and Verification Using Support Vector Machines and Sparse Kernel Logistic Regression -- Monitoring Abnormal Patterns with Complex Semantics over ICU Data Streams -- Spatial-temporal Analysis Method of Plane Circuits Based on Two-Layer Cellular Neural Networks -- Feature-Based Synchronization of Video and Background Music -- Visual Pattern Modeling -- An Integration Concept for Vision-Based Object Handling: Shape-Capture, Detection and Tracking -- Visual Information Encryption in Frequency Domain: Risk and Enhancement -- Automatic 3D Face Model Reconstruction Using One Image -- Cognitive Approach to Visual Data Interpretation in Medical Information and Recognition Systems -- Modelling the Human Visual Process by Evolving Images from Noise -- A Novel Recovery Algorithm of Incomplete Observation Matrix for Converting 2-D Video to 3-D Content -- Study on the Geolocation Algorithm of Space-Borne SAR Image -- Image Processing -- Perceptual Image Retrieval Using Eye Movements -- A Pseudo-hilbert Scan Algorithm for Arbitrarily-Sized Rectangle Region -- Panoramas from Partially Blurred Video -- Saliency-Preserving Image Composition with Luminance Consistency -- Filament Enhancement by Non-linear Volumetric Filtering Using Clustering-Based Connectivity -- Applying Preattentive Visual Guidance in Document Image Analysis -- Efficient and Robust Segmentations Based on Eikonal and Diffusion PDEs -- Local Orientation Estimation in Corrupted Images -- Illumination-Invariant Color Image Correction -- Motion Blur Identification in Noisy Images Using Feed-Forward Back Propagation Neural Network -- Using Shear Invariant for Image Denoising in the Contourlet Domain -- Region-Based Shock-Diffusion Equation for Adaptive Image Enhancement -- A Statistical Level Set Framework for Segmentation of Left Ventricle -- A Bayesian Estimation Approach to Super-Resolution Reconstruction for Face Images -- Hierarchical Markovian Models for Hyperspectral Image Segmentation -- Compression and Coding -- Adaptive Geometry Compression Based on 4-Point Interpolatory Subdivision Schemes -- Parametrization Construction of Integer Wavelet Transforms for Embedded Image Coding -- Reinforcement Learning with Raw Image Pixels as Input State -- New Region of Interest Medical Image Coding for JPEG2000: Compensation-Based Partial Bitplane Alternating Shift -- A New Wavelet Lifting Scheme for Image Compression Applications -- Texture Analysis and Synthesis -- BTF Modelling Using BRDF Texels -- Texture Classification Via Stationary-Wavelet Based Contourlet Transform -- Automatic Color-Texture Image Segmentation by Using Active Contours.

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## Sommario/riassunto

This book collects the proceedings of the International Workshop on Intelligent Computing in Pattern Analysis/Synthesis, IWICPAS 2006, held in Xi'an, China alongside the 18th International Conference on Pattern Recognition, ICPR 2006. The book presents 51 revised full

papers and 128 revised poster papers, organized in topical sections on object detection, tracking and recognition, pattern representation and modeling, visual pattern modeling, image processing, compression and coding and texture analysis/synthesis.

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