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	Nota di contenuto	Accurate Interpolation in Appearance-Based Pose Estimation -- Automatic Segmentation of Overlapping Fish Using Shape Priors -- Automatic Feature Point Correspondences and Shape Analysis with Missing Data and Outliers Using MDL -- Variational Segmentation of Image Sequences Using Deformable Shape Priors -- Real-Time Face Detection Using Illumination Invariant Features -- Face Detection Using Multiple Cues -- Individual Discriminative Face Recognition Models Based on Subsets of Features -- Occluded Facial Expression Tracking -- Model Based Cardiac Motion Tracking Using Velocity Encoded Magnetic Resonance Imaging -- Fractal Analysis of Mammograms -- Reconstructing Teeth with Bite Information -- Sparse Statistical Deformation Model for the Analysis of Craniofacial Malformations in the Crouzon Mouse -- Monocular Point Based Pose Estimation of Artificial Markers by Using Evolutionary Computing -- Camera-to-Camera

Mapping for Hybrid Pan-Tilt-Zoom Sensors Calibration -- Recursive Structure and Motion Estimation Based on Hybrid Matching Constraints -- Efficient Symmetry Detection Using Local Affine Frames -- Triangulation of Points, Lines and Conics -- Robust Variational Reconstruction from Multiple Views -- A Robust Approach for 3D Cars Reconstruction -- Novel Stereoscopic View Generation by Image-Based Rendering Coordinated with Depth Information -- Using Hidden Markov Models for Recognizing Action Primitives in Complex Actions -- Variational Segmentation Using Dynamical Models for Rigid Motion -- Context-Free Detection of Events -- Supporting Structure from Motion with a 3D-Range-Camera -- Object Recognition Using Frequency Domain Blur Invariant Features -- Regularized Neighborhood Component Analysis -- Finding the Minimum-Cost Path Without Cutting Corners -- Object Class Detection Using Local Image Features and Point Pattern Matching Constellation Search -- Image Segmentation with Context -- Improving Hyperspectral Classifiers: The Difference Between Reducing Data Dimensionality and Reducing Classifier Parameter Complexity -- A Hierarchical Texture Model for Unsupervised Segmentation of Remotely Sensed Images -- A Framework for Multiclass Reject in ECOC Classification Systems -- Scale-Space Texture Classification Using Combined Classifiers -- Multiresolution Approach in Computing NTF -- Generation and Empirical Investigation of hv-Convex Discrete Sets -- The Statistical Properties of Local Log-Contrast in Natural Images -- A Novel Parameter Decomposition Approach for Recovering Poses of Distal Locking Holes from Single Calibrated Fluoroscopic Image -- Covariance Estimation for SAD Block Matching -- Infrared-Visual Image Registration Based on Corners and Hausdorff Distance -- Watertight Multi-view Reconstruction Based on Volumetric Graph-Cuts -- Grain Size Measurement of Crystalline Products Using Maximum Difference Method -- Robust Boundary Delineation Using Random-Phase-Shift Active Contours -- Accurate Spatial Neighborhood Relationships for Arbitrarily-Shaped Objects Using Hamilton-Jacobi GVD -- FyFont: Find-your-Font in Large Font Databases -- Efficiently Capturing Object Contours for Non-Photorealistic Rendering -- Weighted Distances Based on Neighbourhood Sequences in Non-standard Three-Dimensional Grids -- Unsupervised Perceptual Segmentation of Natural Color Images Using Fuzzy-Based Hierarchical Algorithm -- Line-Stepping for Shell Meshes -- Nonlinear Functionals in the Construction of Multiscale Affine Invariants -- A New Fuzzy Impulse Noise Detection Method for Colour Images -- On Reasoning over Tracking Events -- FPGA Implementation of kNN Classifier Based on Wavelet Transform and Partial Distance Search -- Affine Illumination Compensation for Multispectral Images -- GPU-Based Edge-Directed Image Interpolation -- Graph-Based Range Image Registration Combining Geometric and Photometric Features -- Automatic Identification and Validation of Tie Points on Hyperspectral Satellite Images from CHRIS/PROBA -- Boneless Pose Editing and Animation -- Text Driven Face-Video Synthesis Using GMM and Spatial Correlation -- Accurate 3D Left-Right Brain Hemisphere Segmentation in MR Images Based on Shape Bottlenecks and Partial Volume Estimation -- Image Inpainting by Cooling and Heating -- Evaluating a General Class of Filters for Image Denoising -- Efficient Feature Extraction for Fast Segmentation of MR Brain Images -- Automated Mottling Assessment of Colored Printed Areas -- Image Based Measurements of Single Cell mtDNA Mutation Load -- A PCA-Based Technique to Detect Moving Objects -- Page Frame Detection for Marginal Noise Removal from Scanned Documents -- Representing Pairs of Orientations in the Plane -- Improved Chamfer

Matching Using Interpolated Chamfer Distance and Subpixel Search -- Automatic Segmentation of Fibroglandular Tissue -- Temporal Bayesian Networks for Scenario Recognition -- Comparison of Combining Methods of Correlation Kernels in kPCA and kCCA for Texture Classification with Kansei Information -- A Visual System for Hand Gesture Recognition in Human-Computer Interaction -- Single View Motion Tracking by Depth and Silhouette Information -- Face Recognition with Irregular Region Spin Images -- Performance Evaluation of Adaptive Residual Interpolation, a Tool for Inter-layer Prediction in H.264/AVC Scalable Video Coding -- 3D Deformable Registration for Monitoring Radiotherapy Treatment in Prostate Cancer -- Reconstruction of 3D Curves for Quality Control -- Video Segmentation and Shot Boundary Detection Using Self-Organizing Maps -- Surface-to-Surface Registration Using Level Sets -- Multiple Object Tracking Via Multi-layer Multi-modal Framework -- Colorimetric and Multispectral Image Acquisition Using Model-Based and Empirical Device Characterization -- Robust Pseudo-hierarchical Support Vector Clustering -- Using Importance Sampling for Bayesian Feature Space Filtering -- Robust Moving Region Boundary Extraction Using Second Order Statistics -- A Linear Mapping for Stereo Triangulation -- Double Adaptive Filtering of Gaussian Noise Degraded Images -- Automatic Extraction and Classification of Vegetation Areas from High Resolution Images in Urban Areas -- An Intelligent Image Retrieval System Based on the Synergy of Color and Artificial Ant Colonies -- Filtering Video Volumes Using the Graphics Hardware -- Performance Comparison of Techniques for Approximating Image-Based Lighting by Directional Light Sources -- A Statistical Model of Head Asymmetry in Infants with Deformational Plagiocephaly -- Real-Time Visual Recognition of Objects and Scenes Using P-Channel Matching -- Graph Cut Based Segmentation of Soft Shadows for Seamless Removal and Augmentation -- Shadow Resistant Direct Image Registration -- Classification of Biological Objects Using Active Appearance Modelling and Color Cooccurrence Matrices -- Estimation of Non-Cartesian Local Structure Tensor Fields -- Similar Pattern Discrimination by Filter Mask Learning with Probabilistic Descent -- Robust Pose Estimation Using the SwissRanger SR-3000 Camera -- Pseudo-real Image Sequence Generator for Optical Flow Computations.

Sommario/riassunto	The present volume contains the proceedings of the Scandinavian Conference on Image Analysis, SCIA 2007, held at Hotel Hvide Hus, Aalborg, Denmark, June 10–14, 2007. Initiated in 1979 by Torleiv Orhaug in Sweden, SCIA 2007 represented the 15th in the biennial series of conferences. It is arranged in turn by the Scandi- vian countries of Sweden, Finland, Denmark, and Norway, making it a regional conference. However, judging by the nationalities of contributing authors and participants, it is also an international conference. Worldwide, there is no lack of conferences on image analysis. Indeed, hardly a day passes without an announcement of yet another conference. Therefore the pattern recognition societies of the Scandinavian countries take particular pride in being able to continue the SCIA tradition. SCIA has indeed matured over the many years it has been in existence, but in our opinion SCIA has maintained ?- ibility and has been able to adopt and incorporate necessary changes and adju- ments over that time span. An important key to the success of SCIA is the constant and continuing high quality of the scienti?c content. Furthermore, the relaxed and friendly atmosphere of the conference itself is well known within the community. The objective to keep in mind must be to continue along those lines.