<< /Advance>>

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This book constitutes the refereed proceedings of the 8th International Conference on Advanced Concepts for Intelligent Vision Systems, ACIVS 2006, held in Antwerp, Belgium in September 2006.   The 45 revised full papers and 65 revised poster papers presented were carefully reviewed and selected from around 242 submissions. The papers are organized in topical sections on noise reduction and restoration, segmentation, motion estimation and tracking, video processing and coding, camera calibration, image registration and stereo matching, biometrics and security, medical imaging, image retrieval and image understanding, as well as classification and recognition.

Noise Reduction and Restoration   Directional Filtering for Upsampling According to Direction   Information of the Base Layer in the JVT/SVC Codec   A New Fuzzy-Based Wavelet Shrinkage Image Denoising Technique   Mathematical Models for Restoration of Baroque Paintings   Motion Blur Concealment of Digital Video Using Invariant Features   Hybrid Sigma Filter for Processing Images Corrupted by Multiplicative   Noise   Automatic Restoration of Old Motion Picture Films Using Spatiotemporal Exemplar-Based Inpainting   Dedicated Hardware for Real-Time Computation of Second-Order Statistical Features for High Resolution Images   Greyscale Image Interpolation Using Mathematical Morphology   Dilation Matrices for Nonseparable Bidimensional Wavelets   Evolutionary Tree-Structured Filter for Impulse Noise Removal   Perceived Image Quality Measurement of State-of-the-Art Noise   Reduction Schemes   Multiway Filtering Applied on Hyperspectral Images   Segmentation   A Linear-Time Approach for Image Segmentation Using Graph-Cut   Measures   The RIM Framework for Image Processing   A Proposal Method for Corner Detection with an Orthogonal   Three-Direction Chain Code   A Charged Active Contour Based on Electrostatics   Comparison of Statistical and Shape-Based Approaches for Non-rigid   Motion Tracking with Missing Data Using a Particle Filter   An Active Contour Model Guided by LBP Distributions   Characterizing the Lacunarity of Objects and Image Sets and Its Use   as a Technique for the Analysis of Textural Patterns   Adaptive Vision Leveraging Digital Retinas: Extracting Meaningful   Segments   A Fast Dynamic Border Linking Algorithm for Region Merging   Motion Estimation and Tracking   Video Processing and   Coding   Camera Calibration,Image Registration and Stereo Matching   Biometrics and Security   Medical Imaging   Image Retrieval and Image Understanding   Classififcation and Recognition   Author Index

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