Preface p. ix
Committees p. x
Reviewers p. xii
Invited Lecture Vascular Image Processing p. 3
Computer Vision and Pattern Recognition Shape from Shading and Intensity Gradient p. 7
Time-Critical Rendering of Irregular Grids p. 243
Visualization of Three-Dimensional Maps p. 251
Interactive Visualization over the WWW p. 259
Mathematical Morphology
Fast Euclidean Distance Transform Using a Graph-Search Algorithm p. 269
Image Decomposition in Morphological Residues: An Approach for Image Filtering and Segmentation p. 276
Text Segmentation by Automatically Designed Morphological Operators p. 284
Classification of the Distance Transformation Algorithms under the Mathematical Morphology Approach p. 292
Morphological Operators for Segmentation of Color Sequences p. 300
Incremental Evaluation of BDD-Represented Set Operators p. 308
Color Image Gradients for Morphological Segmentation p. 316
Panel
Teaching Computer Graphics In Brazil p. 327
Technical Posters
Parallelization of ARTUR Algorithm Using PVM p. 331
PhotopixJ 2.0--A JAVA Digital Image Processing Environment p. 332
Recognition of Characters in Plates of Private Brazilian Vehicles Using Neural Networks p. 333
Old Movie Restoration Using Opening by Surface p. 334
Towards Real-Time Image Segmentation Using Polynomial Functions p. 335
Adaptive Filters for Image Processing Based on Artificial Neural Networks p. 336
Morphological Cursive Word Segmentation p. 337
Recognition of Unconstrained Handwritten Numerals Using Biorthogonal Spline Wavelets p. 338
Image Compression via TRITREE Decomposition p. 339
Pattern Recognition and Image Description by Suitable Textural Information p. 340
Reconstruction by Using a Wavelet Representation of the Algebraic Radon Transform p. 341
Parallelism and Images: A Parallelization Experiment for Image Segmentation with an Application for Automatic Classification of Scenes Obtained from Orbital Platforms p. 342
Directional Images Applied to Axonal Arborization Identification p. 343
Identification and Segmentation of Cells in Images of Donated Corneas Using Mathematical Morphology p. 344
A Project for Hand Gesture Recognition p. 345
Head Motion Tracking Using Facial Image Analysis Applied to 3D-Environment Navigation p. 346
Enhancing the Volumetric Approach to Stereo Matching p. 347
A Virtual Endoscopic System for Non-Invasive Bronchoscopy p. 348
Enhancing Microscope Biological Images with DIP Techniques p. 349
An Object-Relational Database Containing Multimedia Data p. 350
Computerized Tomography Image Compression: FIC [times] WTC p. 351