

1. Record Nr.	UNISA996465737803316
Titolo	Combinatorial Image Analysis [[electronic resource]] : 11th International Workshop, IWZIA 2006, Berlin, Germany, June 19-21, 2006, Proceedings // edited by Ralf Reulke, Ulrich Eckardt, Boris Flach, Uwe Knauer, Konrad Polthier
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2006
ISBN	3-540-35154-X
Edizione	[1st ed. 2006.]
Descrizione fisica	1 online resource (XII, 484 p.)
Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics ; ; 4040
Disciplina	621.36/7
Soggetti	Optical data processing Pattern recognition Computer graphics Algorithms Computer science—Mathematics Numerical analysis Image Processing and Computer Vision Pattern Recognition Computer Graphics Algorithm Analysis and Problem Complexity Discrete Mathematics in Computer Science Numeric Computing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"IAPR"--Cover.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Combinatorics and Counting -- Topological Map: An Efficient Tool to Compute Incrementally Topological Features on 3D Images -- Counting Gaps in Binary Pictures -- The Exact Lattice Width of Planar Sets and Minimal Arithmetical Thickness -- Thinning and Watersheds -- Branch Voxels and Junctions in 3D Skeletons -- New 2D Parallel Thinning Algorithms Based on Critical Kernels -- Grayscale Watersheds on Perfect Fusion Graphs -- Distances -- Matching of the Multi-channel Images with Improved Nonparametric Transformations and Weighted

Binary Distance Measures -- Approximating Euclidean Distance Using Distances Based on Neighbourhood Sequences in Non-standard Three-Dimensional Grids -- Fuzzy Distance Based Hierarchical Clustering Calculated Using the A??? Algorithm -- Image Representation and Segmentation -- A New Sub-pixel Map for Image Analysis -- Feature Based Defuzzification at Increased Spatial Resolution -- Extended Mumford-Shah Regularization in Bayesian Estimation for Blind Image Deconvolution and Segmentation -- Invited Paper -- Polygonal Approximation of Point Sets -- Approximations I -- Linear Discrete Line Recognition and Reconstruction Based on a Generalized Preimage -- Digital Line Recognition, Convex Hull, Thickness, a Unified and Logarithmic Technique -- Incremental and Transitive Discrete Rotations -- Digital Topology -- Discrete Homotopy of a Closed k -Surface -- Topology Preserving Digitization with FCC and BCC Grids -- On the Notion of Dimension in Digital Spaces -- Shape and Matching -- Size and Shape Measure of Particles by Image Analysis -- A Comparison of Shape Matching Methods for Contour Based Pose Estimation -- Relevance Criteria for Data Mining Using Error-Tolerant Graph Matching -- Invited Paper -- Computational Aspects of Digital Plane and Hyperplane Recognition -- Approximations II -- A Linear Algorithm for Polygonal Representations of Digital Sets -- The Monogenic Curvature Scale-Space -- Combinatorics and Grammars -- Combinatorial Properties of Scale Space Singular Points -- Additive Subsets -- Cooperating Basic Puzzle Grammar Systems -- Tomography -- Quasi-isometric and Quasi-conformal Development of Triangulated Surfaces for Computerized Tomography -- Binary Tomography with Deblurring -- A Neural Network Approach to Real-Time Discrete Tomography -- Poster Session -- A Novel Automated Hand-Based Personal Identification -- Shortest Paths in a Cuboidal World -- Surface Registration Markers from Range Scan Data -- Two-Dimensional Discrete Shape Matching and Recognition -- Hierarchical Tree of Image Derived by Diffusion Filtering -- Object Tracking Using Genetic Evolution Based Kernel Particle Filter -- An Efficient Reconstruction of 2D-Tiling with $t_{1,2}$, $t_{2,1}$, $t_{1,1}$ Tiles.
