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Titolo	Discrete Geometry for Computer Imagery : 13th International Conference, DGCI 2006, Szeged, Hungary, October 25-27, 2006, Proceedings / / edited by Attila Kuba, László G. Nyúl, Kálmán Palágyi
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Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics, , 3004-9954 ; ; 4245
Altri autori (Persone)	KubaAttila NyulLaszlo G Palagyikalman
Disciplina	006.601/516
Soggetti	Application software Computer vision Computer graphics Computer science - Mathematics Discrete mathematics Computer simulation Algorithms Computer and Information Systems Applications Computer Vision Computer Graphics Discrete Mathematics in Computer Science Computer Modelling
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Discrete Geometry -- Duality and Geometry Straightness, Characterization and Envelope -- On Minimal Perimeter Polyminoes -- A Generic Approach for n-Dimensional Digital Lines -- Two Discrete- Euclidean Operations Based on the Scaling Transform -- Geometry of Neighborhood Sequences in Hexagonal Grid -- Recognition of Blurred

Pieces of Discrete Planes -- Discrete Tomography -- The Number of
 Line-Convex Directed Polyominoes Having the Same Orthogonal
 Projections -- A Network Flow Algorithm for Binary Image
 Reconstruction from Few Projections -- Fast Filling Operations Used in
 the Reconstruction of Convex Lattice Sets -- Reconstruction Algorithm
 and Switching Graph for Two-Projection Tomography with Prohibited
 Subregion -- A Geometry Driven Reconstruction Algorithm for the
 Mojette Transform -- Quantised Angular Momentum Vectors and
 Projection Angle Distributions for Discrete Radon Transformations -- A
 Benchmark Evaluation of Large-Scale Optimization Approaches to
 Binary Tomography -- Construction of Switching Components --
 Discrete Topology -- Minimal Non-simple and Minimal Non-cosimple
 Sets in Binary Images on Cell Complexes -- Combinatorial Relations for
 Digital Pictures -- Reusing Integer Homology Information of Binary
 Digital Images -- On the Lattice Structure of Subsets of Octagonal
 Neighborhood Sequences in \mathbb{Z}^n -- On the Connectedness of Rational
 Arithmetic Discrete Hyperplanes -- Homology of Simplicial Set --
 Measuring Intrinsic Volumes in Digital 3d Images -- Distance -- An
 Objective Comparison Between Gray Weighted Distance Transforms and
 Weighted Distance Transforms on Curved Spaces -- Chordal Axis on
 Weighted Distance Transforms -- Attention-Based Mesh Simplification
 Using Distance Transforms -- Generating Distance Maps with
 Neighbourhood Sequences -- Hierarchical Chamfer Matching Based on
 Propagation of Gradient Strengths -- Elliptical Distance Transforms and
 Applications -- Image Analysis -- A Composite and Quasi Linear Time
 Method for Digital Plane Recognition -- Fusion Graphs, Region Merging
 and Watersheds -- Revisiting Digital Straight Segment Recognition --
 On Discrete Moments of Unbounded Order -- Feature Based
 Defuzzification in \mathbb{Z}^2 and \mathbb{Z}^3 Using a Scale Space Approach -- Improving
 Difference Operators by Local Feature Detection -- Shape
 Representation -- An Optimal Algorithm for Detecting Pseudo-squares
 -- Optimization Schemes for the Reversible Discrete Volume
 Polyhedrization Using Marching Cubes Simplification -- Arithmetic
 Discrete Hyperspheres and Separatingness -- The Eccentricity
 Transform (of a Digital Shape) -- Projected Area Based 3D Shape
 Similarity Evaluation -- Continuous Level of Detail on Graphics
 Hardware -- Topological and Geometrical Reconstruction of Complex
 Objects on Irregular Isothetic Grids -- Fast Polynomial Segmentation of
 Digitized Curves -- Segmentation -- Fuzzy Segmentation of Color
 Video Shots -- Application of Surface Topological Segmentation to
 Seismic Imaging -- Watershed Segmentation with Chamfer Metric --
 Generalized Map Pyramid for Multi-level 3D Image Segmentation --
 Topologically Correct Image Segmentation Using Alpha Shapes --
 Skeletonization -- New Removal Operators for Surface Skeletonization
 -- Skeleton Pruning by Contour Partitioning -- A New 3D Parallel
 Thinning Scheme Based on Critical Kernels -- Order Independence in
 Binary 2D Homotopic Thinning -- Exact Euclidean Medial Axis in Higher
 Resolution -- Skeletonization and Distance Transforms of 3D Volumes
 Using Graphics Hardware -- Surfaces and Volumes -- How to Tile by
 Dominoes the Boundary of a Polycube -- A Generalized Preimage for
 the Standard and Supercover Digital Hyperplane Recognition --
 Distance Transforms on Anisotropic Surfaces for Surface Roughness
 Measurement -- A 3D Live-Wire Segmentation Method for Volume
 Images Using Haptic Interaction -- Minimal Decomposition of a Digital
 Surface into Digital Plane Segments Is NP-Hard -- Erratum --
 Topological and Geometrical Reconstruction of Complex Objects on
 Irregular Isothetic Grids.

International Conference on Discrete Geometry for Computer Imagery, DGCI 2006, held in Szeged, Hungary in October 2006. The 28 revised full papers and 27 revised poster papers presented together with two invited papers were carefully reviewed and selected from 99 submissions.
