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Nota di contenuto	Theoretical Foundations of Image Analysis and Processing -- Generalized Perpendicular Bisector and Circumcenter -- Digital Stars and Visibility of Digital Objects -- ?-Arithmetization of Ellipses -- Connectedness of Offset Digitizations in Higher Dimensions -- Curvature Estimation for Discrete Curves Based on Auto-adaptive Masks of Convolution -- An Algorithm to Decompose n-Dimensional Rotations into Planar Rotations -- Tile Pasting Systems for Tessellation and Tiling Patterns -- Polyoisominoes -- Collage of Iso-Picture Languages and P Systems -- Online Tessellation Automaton Recognizing Various Classes of Convex Polyominoes -- A New Method for Generation of Three-Dimensional Cubes -- Methods and Applications. Medical Imaging, Bioimaging, Biometrics, and Imaging in Material Sciences -- Surface-Based Imaging Methods for High-Resolution Functional Magnetic Resonance Imaging -- Characterization of a SimMechanics Model for a Virtual Glove Rehabilitation System -- Numerical Methods for the Semi-automatic Analysis of Multimodal Wound Healing Images -- Customizable Visualization on Demand for Hierarchically Organized Information in Biochemical Networks -- Improved Kernel Common Vector Method for Face Recognition Varying

in Background Conditions -- Compact Binary Patterns (CBP) with Multiple Patch Classifiers for Fast and Accurate Face Recognition -- Graph-Theoretic Image Alignment Using Topological Features -- Fast Automatic Microstructural Segmentation of Ferrous Alloy Samples Using Optimum-Path Forest -- Numerical Simulations of Hypoeutectoid Steels under Loading Conditions, Based on Image Processing and Digital Material Representation -- Surface Finish Control in Machining Processes Using Haralick Descriptors and Neuronal Networks -- Methods and Applications. Image Reconstruction, Computed Tomography, and Other Applications -- Direction-Dependency of a Binary Tomographic Reconstruction Algorithm -- Circular Acquisition to Define the Minimal Set of Projections for Optimal MRI Reconstruction -- Surface Reconstruction with an Interactive Modification of Point Normals -- On the Effects of Normalization in Adaptive MRF Hierarchies -- Topology Preserving Parallel Smoothing for 3D Binary Images -- Coding a Simulation Model of the 3D Structure of Paper -- Crowd Behavior Surveillance Using Bhattacharyya Distance Metric.