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Soggetti	Application software Computer programming Computer engineering Optical data processing Artificial intelligence Pattern recognition Computer Applications Programming Techniques Computer Engineering Image Processing and Computer Vision Artificial Intelligence Pattern Recognition
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Biomedical Image Analysis -- Automated Vertebra Identification from X-Ray Images -- Towards Non Invasive Diagnosis of Scoliosis Using Semi-supervised Learning Approach -- Articulated Model Registration of MRI/X-Ray Spine Data -- Multimodality Image Alignment Using Information-Theoretic Approach -- Retinal Images: Optic Disk

Localization and Detection -- Using Retinex Image Enhancement to Improve the Artery/Vein Classification in Retinal Images -- Automatic Corneal Nerves Recognition for Earlier Diagnosis and Follow-Up of Diabetic Neuropathy -- Fusing Shape Information in Lung Segmentation in Chest Radiographs -- A 3D Tool for Left Ventricle Segmentation Editing -- Myocardial Segmentation Using Constrained Multi-Seeded Region Growing -- A Level Set Segmentation Method of the Four Heart Cavities in Pediatric Ultrasound Images -- Improved Technique to Detect the Infarction in Delayed Enhancement Image Using K-Mean Method -- Detection of Arterial Lumen in Sonographic Images Based on Active Contours and Diffusion Filters -- Classification of Endoscopic Images Using Delaunay Triangulation-Based Edge Features -- A Framework for Cerebral CT Perfusion Imaging Methods Comparison -- Application of the Laplacian Pyramid Decomposition to the Enhancement of Digital Dental Radiographic Images for the Automatic Person Identification -- Automatic Recognition of Five Types of White Blood Cells in Peripheral Blood -- An Application for Semi-automatic HPV Typing of PCR-RFLP Images -- Automatic Information Extraction from Gel Electrophoresis Images Using GEIAS -- Elastography of Biological Tissue: Direct Inversion Methods That Allow for Local Shear Modulus Variations -- Segmentation of Cell Nuclei in Arabidopsis Thaliana Roots -- Optical Flow Based Arabidopsis Thaliana Root Meristem Cell Division Detection -- Biometrics -- The West Pomeranian University of Technology Ear Database – A Tool for Testing Biometric Algorithms -- Associating Minutiae between Distorted Fingerprints Using Minimal Spanning Tree -- Application of Wave Atoms Decomposition and Extreme Learning Machine for Fingerprint Classification -- Unideal Iris Segmentation Using Region-Based Active Contour Model -- Secure Iris Recognition Based on Local Intensity Variations -- Transforming Rectangular and Polar Iris Images to Enable Cancelable Biometrics -- Advances in EEG-Based Biometry -- Two-Factor Authentication or How to Potentially Counterfeit Experimental Results in Biometric Systems -- Applications -- Automated Detection of Sand Dunes on Mars -- Directional Gaze Analysis in Webcam Video Sequences -- Novelty Detection on Metallic Surfaces by GMM Learning in Gabor Space -- Digital Instrumentation Calibration Using Computer Vision -- Dynamic Scenes HDRI Acquisition -- Correcting Book Binding Distortion in Scanned Documents -- Image-Based Drift and Height Estimation for Helicopter Landings in Brownout -- Can Background Baroque Music Help to Improve the Memorability of Graphical Passwords? -- Color Texture Analysis for Tear Film Classification: A Preliminary Study -- A New Method for Text-Line Segmentation for Warped Documents -- HistDoc - A Toolbox for Processing Images of Historical Documents -- Urban Road Extraction from High-Resolution Optical Satellite Images -- Geometrical Characterization of Various Shaped 3D-Aggregates of Primary Spherical Particules by Radial Distribution Functions.