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Descrizione fisica	1 online resource (XIX, 891 p.)
Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics, , 3004-9954 ; ; 5305
Disciplina	006.37
Soggetti	Data mining Computer vision Image processing - Digital techniques Computer graphics Pattern recognition systems Digital humanities Data Mining and Knowledge Discovery Computer Vision Computer Imaging, Vision, Pattern Recognition and Graphics Computer Graphics Automated Pattern Recognition Digital Humanities
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Segmentation -- Image Segmentation in the Presence of Shadows and Highlights -- Image Segmentation by Branch-and-Mincut -- What Is a Good Image Segment? A Unified Approach to Segment Extraction -- Computational Photography -- Light-Efficient Photography -- Flexible Depth of Field Photography -- Priors for Large Photo Collections and What They Reveal about Cameras -- Understanding Camera Trade-Offs through a Bayesian Analysis of Light Field Projections -- Poster Session IV -- CenSurE: Center Surround Extremas for Realtime Feature Detection and Matching -- Searching the World’s Herbaria: A System

for Visual Identification of Plant Species -- A Column-Pivoting Based Strategy for Monomial Ordering in Numerical Gröbner Basis Calculations -- Co-recognition of Image Pairs by Data-Driven Monte Carlo Image Exploration -- Movie/Script: Alignment and Parsing of Video and Text Transcription -- Using 3D Line Segments for Robust and Efficient Change Detection from Multiple Noisy Images -- Action Recognition with aBio–inspired Feedforward Motion Processing Model: The Richness of Center-Surround Interactions -- Linking Pose and Motion -- Automated Delineation of Dendritic Networks in Noisy Image Stacks -- Calibration from Statistical Properties of the Visual World -- Regular Texture Analysis as Statistical Model Selection -- Higher Dimensional Affine Registration and Vision Applications -- Semantic Concept Classification by Joint Semi-supervised Learning of Feature Subspaces and Support Vector Machines -- Learning from Real Images to Model Lighting Variations for Face Images -- Toward Global Minimum through Combined Local Minima -- Differential Spatial Resection - Pose Estimation Using a Single Local Image Feature -- Riemannian Anisotropic Diffusion for Tensor Valued Images -- FaceTracer: A Search Engine for Large Collections of Images with Faces -- What Does the Sky Tell Us about the Camera? -- Three Dimensional Curvilinear Structure Detection Using Optimally Oriented Flux -- Scene Segmentation for BehaviourCorrelation -- Robust Visual Tracking Based on an Effective Appearance Model -- Key Object Driven Multi-category Object Recognition, Localization and Tracking Using Spatio-temporal Context -- A Pose-Invariant Descriptor for Human Detection and Segmentation -- Texture-Consistent Shadow Removal -- Scene Discovery by Matrix Factorization -- Simultaneous Detection and Registration for Ileo-Cecal Valve Detection in 3D CT Colonography -- Constructing Category Hierarchies for Visual Recognition -- Sample Sufficiency and PCA Dimension for Statistical Shape Models -- Locating Facial Features with an Extended Active Shape Model -- Dynamic Integration of Generalized Cues for Person Tracking -- Extracting Moving People from Internet Videos -- Multiple Instance Boost Using Graph Embedding Based Decision Stump for Pedestrian Detection -- Object Detection from Large-Scale 3D Datasets Using Bottom-Up and Top-Down Descriptors -- Making Background Subtraction Robust to Sudden Illumination Changes -- Closed-Form Solution to Non-rigid 3D Surface Registration -- Implementing Decision Trees and Forests on a GPU -- General Imaging Geometry for Central Catadioptric Cameras -- Estimating Radiometric Response Functions from Image Noise Variance -- Solving Image Registration Problems Using Interior Point Methods -- 3D Face Model Fitting for Recognition -- A Multi-scale Vector Spline Method for Estimating the Fluids Motion on Satellite Images -- Continuous Energy Minimization Via Repeated Binary Fusion -- Unified Crowd Segmentation -- Quick Shift and Kernel Methods for Mode Seeking -- A Fast Algorithm for Creating a Compact and Discriminative Visual Codebook -- A Dynamic Conditional Random Field Model for Joint Labeling of Object and Scene Classes -- Local Regularization for Multiclass Classification Facing Significant Intraclass Variations -- Saliency Based Opportunistic Search for Object Part Extraction and Labeling -- Stereo Matching: An Outlier Confidence Approach -- Improving Shape Retrieval by Learning Graph Transduction -- Cat Head Detection - How to Effectively Exploit Shape and Texture Features -- Motion Context: A New Representation for Human Action Recognition -- Active Reconstruction -- Temporal Dithering of Illumination for Fast Active Vision -- Compressive Structured Light for Recovering Inhomogeneous Participating Media -- Passive Reflectometry -- Fusion of Feature- and Area-Based Information for Urban Buildings Modeling

from Aerial Imagery.

Sommario/riassunto

The four-volume set comprising LNCS volumes 5302/5303/5304/5305 constitutes the refereed proceedings of the 10th European Conference on Computer Vision, ECCV 2008, held in Marseille, France, in October 2008. The 243 revised papers presented were carefully reviewed and selected from a total of 871 papers submitted. The four books cover the entire range of current issues in computer vision. The papers are organized in topical sections on recognition, stereo, people and face recognition, object tracking, matching, learning and features, MRFs, segmentation, computational photography and active reconstruction. .