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Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics ; ; 8142
Disciplina	006.4
Soggetti	Pattern recognition Optical data processing Artificial intelligence Computer graphics Computer simulation Pattern Recognition Image Processing and Computer Vision Artificial Intelligence Computer Graphics Simulation and Modeling
Lingua di pubblicazione	Inglese
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Nota di contenuto	Stereo and Structure from Motion -- Reconstructing Reflective and Transparent Surfaces from Epipolar Plane Images -- Structure from Motion Using Rigidly Coupled Cameras without Overlapping Views -- Highly Accurate Depth Estimation for Objects at Large Distances -- A Low-Rank Constraint for Parallel Stereo Cameras -- Poster Session -- Multi-Resolution Range Data Fusion for Multi-View Stereo Reconstruction -- 3D Object Class Geometry Modeling with Spatial Latent Dirichlet Markov Random Fields -- Discriminative Joint Non-negative Matrix Factorization for Human Action Classification -- Joint Shape Classification and Labeling of 3-D Objects Using the Energy Minimization Framework -- A Coded 3d Calibration Method for Line-

Scan Cameras -- Confidence-Based Surface Prior for Energy-Minimization Stereo Matching -- A Monte Carlo Strategy to Integrate Detection and Model-Based Face Analysis -- Scale-Aware Object Tracking with Convex Shape Constraints on RGB-D Images -- Learning How to Combine Internal and External Denoising Methods -- A Comparison of Directional Distances for Hand Pose Estimation -- Approximate Sorting -- Sequential Gaussian Mixture Models for Two-Level Conditional Random Fields -- Synthesizing Real World Stereo Challenges -- Pedestrian Path Prediction with Recursive Bayesian Filters: A Comparative Study -- An Improved Model for Estimating the Meteorological Visibility from a Road Surface Luminance Curve -- Performance Evaluation of Narrow Band Methods for Variational Stereo Reconstruction -- Discriminative Detection and Alignment in Volumetric Data -- Distances Based on Non-rigid Alignment for Comparison of Different Object Instances -- Young Researchers' Forum -- Stixel-Based Target Existence Estimation under Adverse Conditions -- Three-Dimensional Data Compression with Anisotropic Diffusion -- Automatic Level Set Based Cerebral Vessel Segmentation and Bone Removal in CT Angiography Data Sets -- Action Recognition with HOG-OF Features -- Image Based 6-DOF Camera Pose Estimation with Weighted RANSAC 3D -- Symmetry-Based Detection and Diagnosis of DCIS in Breast MRI -- Statistical Methods and Learning -- Ordinal Random Forests for Object Detection -- Revisiting Loss-Specific Training of Filter-Based MRFs for Image Restoration -- Labeling Examples That Matter: Relevance-Based Active Learning with Gaussian Processes -- Efficient Retrieval for Large Scale Metric Learning -- Applications -- A Hierarchical Voxel Hash for Fast 3D Nearest Neighbor Lookup -- Bone Age Assessment Using the Classifying Generalized Hough Transform -- Framework for Generation of Synthetic Ground Truth Data for Driver Assistance Applications -- Refractive Plane Sweep for Underwater Images -- Optical Flow -- An Evaluation of Data Costs for Optical Flow -- Illumination Robust Optical Flow Model Based on Histogram of Oriented Gradients -- Pattern Recognition -- Spatial Pattern Templates for Recognition of Objects with Regular Structure -- K-Smallest Spanning Tree Segmentations -- Discriminable Points That Stick Out of Their Environment -- Representation Learning for Cloud Classification -- Shape Recognition and Scene Understanding -- CopyMe3D: Scanning and Printing Persons in 3D -- Monocular Pose Capture with a Depth Camera Using a Sums-of-Gaussians Body Model -- Robust Realtime Motion-Split-And-Merge for Motion Segmentation -- Efficient Multi-cue Scene Segmentation.

Sommario/riassunto

This book constitutes the refereed proceedings of the 35th German Conference on Pattern Recognition, GCPR 2013, held in Saarbrücken, Germany, in September 2013. The 22 revised full papers and 18 revised poster papers were carefully reviewed and selected from 79 submissions. The papers covers topics such as image processing and computer vision, machine learning and pattern recognition, mathematical foundations, statistical data analysis and models, computational photography and confluence of vision and graphics, and applications in natural sciences, engineering, biomedical data analysis, imaging, and industry.
