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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Technovision -- Evaluation of Interest Point Detectors for Non-planar, Transparent Scenes -- On the Evaluation of Segmentation Methods for

Wildland Fire -- 2D Face Recognition in the IV2 Evaluation Campaign --  
Background Subtraction Techniques: Systematic Evaluation and  
Comparative Analysis -- Fundamental Mathematical Techniques --  
Kolmogorov Superposition Theorem and Wavelet Decomposition for  
Image Compression -- Theorems Relating Polynomial Approximation,  
Orthogonality and Balancing Conditions for the Design of Nonseparable  
Bidimensional Multiwavelets -- Mixtures of Normalized Linear  
Projections -- A New Feasible Approach to Multi-dimensional Scale  
Saliency -- Attributed Graph Matching Using Local Descriptions -- A  
Template Analysis Methodology to Improve the Efficiency of Fast  
Matching Algorithms -- Enhanced Low-Resolution Pruning for Fast  
Full-Search Template Matching -- A Novel Approach to Geometric  
Fitting of Implicit Quadrics -- Two-Level Bimodal Association for  
Audio-Visual Speech Recognition -- Level Set-Based Fast Multi-phase  
Graph Partitioning Active Contours Using Constant Memory -- Image  
Processing, Coding and Filtering -- Image Quality Assessment Based on  
Edge-Region Information and Distorted Pixel for JPEG and JPEG2000 --  
Fast Multi Frames Selection Algorithm Based on Macroblock Reference  
Map for H.264/AVC -- Highlight Removal from Single Image --  
Parameter Estimation in Bayesian Super-Resolution Image  
Reconstruction from Low Resolution Rotated and Translated Images --  
A New Approach to Sparse Image Representation Using MMV and K-  
SVD -- 3D Filtering of Colour Video Sequences Using Fuzzy Logic and  
Vector Order Statistics -- A Performance Comparison of De-  
convolution Algorithms on Transmission Terahertz Images -- Content-  
Based Annotation of User Generated Videos on a Mobile Platform --  
Dynamic Texture Extraction and Video Denoising -- Image and Video  
Analysis -- Unsupervised Detection of Gradual Video Shot Changes  
with Motion-Based False Alarm Removal -- VISRET – A Content Based  
Annotation, Retrieval and Visualization Toolchain -- Combination of  
Attributes in Stereovision Matching for Fish-Eye Lenses in Forest  
Analysis -- Image Categorization Using ESFS: A New Embedded Feature  
Selection Method Based on SFS -- Pattern Analysis for an Automatic  
and Low-Cost 3D Face Acquisition Technique -- Bayesian Pressure  
Snake for Weld Defect Detection -- Parallel Blob Extraction Using the  
Multi-core Cell Processor -- Quality Fusion Rule for Face Recognition in  
Video -- Computer Vision -- Decorrelation and Distinctiveness Provide  
with Human-Like Saliency -- Intelligent Vision: A First Step – Real Time  
Stereovision -- Engineering of Computer Vision Algorithms Using  
Evolutionary Algorithms -- Shape Recognition by Voting on Fast  
Marching Iterations -- Unusual Activity Recognition in Noisy  
Environments -- Real-Time Center Detection of an OLED Structure --  
Comparing Feature Matching for Object Categorization in Video  
Surveillance -- Self Organizing and Fuzzy Modelling for Parked Vehicles  
Detection -- Rapid Detection of Many Object Instances -- Concealed  
Object Perception and Recognition Using a Photometric Stereo Strategy  
-- Tracking -- Tracking 3D Orientation through Corresponding Conics  
-- Parallel Region-Based Level Set Method with Displacement  
Correction for Tracking a Single Moving Object -- Lane Detection and  
Tracking Using a Layered Approach -- Temporal Templates for  
Detecting the Trajectories of Moving Vehicles -- Robust Detection and  
Tracking of Moving Objects in Traffic Video Surveillance -- Vehicle  
Tracking Using Geometric Features -- Object Tracking by Non-  
overlapping Distributed Camera Network -- Relational Dynamic  
Bayesian Networks to Improve Multi-target Tracking -- Multiple Human  
Tracking in High-Density Crowds -- 3D Face Alignment via Cascade 2D  
Shape Alignment and Constrained Structure from Motion -- Color,  
Multispectral and Special-Purpose Imaging -- Carotenoid

Concentration of Arctic Charr (*Salvelinus Alpinus* L.) from Spectral Data -- Quality of Reconstructed Spectrum for Watermarked Spectral Images Subject to Various Illumination Conditions -- Compression of Remote Sensing Images for the PROBA-V Satellite Mission -- Estimating Color Signal at Different Correlated Color Temperature of Daylight -- Local Color Descriptor for Object Recognition across Illumination Changes -- A New Method for Segmentation of Images Represented in a HSV Color Space -- Radar Imager for Perception and Mapping in Outdoor Environments -- Phantom-Based Point Spread Function Estimation for Terahertz Imaging System -- Advanced Vision Processing Systems: Spike-Based Simulation and Processing -- Medical Imaging -- Self-assessed Contrast-Maximizing Adaptive Region Growing -- Convex Hull-Based Feature Selection in Application to Classification of Wireless Capsule Endoscopic Images -- Pattern Analysis of Dermoscopic Images Based on FSCM Color Markov Random Fields -- Biometrics -- A 3D Statistical Facial Feature Model and Its Application on Locating Facial Landmarks -- Behavioral State Detection of Newborns Based on Facial Expression Analysis -- Supervised Face Recognition for Railway Stations Surveillance -- Person's Recognition Using Palmprint Based on 2D Gabor Filter Response -- Retina Identification Based on the Pattern of Blood Vessels Using Angular and Radial Partitioning.

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Sommario/riassunto

This book constitutes the refereed proceedings of the 11th International Conference on Advanced Concepts for Intelligent Vision Systems, ACIVS 2009, held in Bordeaux, France in September/October 2009. The 43 revised full papers and 25 posters presented were carefully reviewed and selected from 115 submissions. The papers are organized in topical sections on technovision, fundamental mathematical techniques, image processing, coding and filtering, image and video analysis, computer vision, tracking, color, multispectral and special-purpose imaging, medical imaging, and biometrics.

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