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Descrizione fisica	1 online resource (XVI, 433 p. 207 illus.)
Collana	Lecture notes in computer science, , 0302-9743 ; ; 6374 LNCS sublibrary. SL 6, Image processing, computer vision, pattern recognition, and graphics
Altri autori (Persone)	BolcLeonard <1934->
Disciplina	006.3/7
Soggetti	Computer vision Computer graphics Image processing - Digital techniques
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	International conference proceedings.
Nota di bibliografia	Includes bibliographical references and author index.
Nota di contenuto	Advances in Pattern Recognition, Machine Vision and Image Understanding -- Visual Codebooks Survey for Video On-Line Processing -- Application of Shape Description Methodology to Hand Radiographs Interpretation -- Localisation and Tracking of an Airport's Approach Lighting System -- Algorithm for Blood-Vessel Segmentation in 3D Images Based on a Right Generalized Cylinder Model: Application to Carotid Arteries -- Cognitive Hierarchical Active Partitions Using Patch Approach -- Ontological Models as Tools for Image Content Understanding -- Unsupervised, Fast and Precise Recognition of Digital Arcs in Noisy Images -- The Role of Sparse Data Representation in Semantic Image Understanding -- Semantic Interpretation of Heart Vessel Structures Based on Graph Grammars -- Interpretation of Images and Their Sequences Using Potential Active Contour Method -- Inductive Learning Methods in the Simple Image Understanding System -- Human Motion Analysis and Synthesis -- A Generic Approach to Design and Querying of Multi-purpose Human Motion Database --

Surveillance Video Stream Analysis Using Adaptive Background Model and Object Recognition -- Nonlinear Multiscale Analysis of Motion Trajectories -- Matlab Based Interactive Simulation Program for 2D Multisegment Mechanical Systems -- Electrooculography Signal Estimation by Using Evolution-Based Technique for Computer Animation Applications -- Articulated Body Motion Tracking by Combined Particle Swarm Optimization and Particle Filtering -- GPU-Accelerated Tracking of the Motion of 3D Articulated Figure -- An Efficient Approach for Human Motion Data Mining Based on Curves Matching -- Estimation System for Forces and Torques in a Biped Motion -- Classification of Poses and Movement Phases -- Computer Vision and Graphics -- Region Covariance Matrix-Based Object Tracking with Occlusions Handling -- Minimalist AdaBoost for Blemish Identification in Potatoes -- The Colour Sketch Recognition Interface for Training Systems -- Interactive Hydraulic Erosion Using CUDA -- Smoothing, Enhancing Filters in Terms of Backward Stochastic Differential Equations -- An Analysis of Different Clustering Algorithms for ROI Detection in High Resolutions CT Lung Images -- A System to Measure Gap Distance between Two Vehicles Using License Plate Character Height -- Efficient Neural Models for Visual Attention -- Fuzzy Hough Transform-Based Methods for Extraction and Measurements of Single Trees in Large-Volume 3D Terrestrial LIDAR Data -- Image Recognition Techniques Applied to Automated and Objective QoE Assessment of Mobile WWW Services -- Detection of Near-Regular Object Configurations by Elastic Graph Search -- Traffic Scene Segmentation and Robust Filtering for Road Signs Recognition -- Fast Distance Vector Field Extraction for Facial Feature Detection -- Vision-Based Vehicle Speed Measurement Method -- A Particle-Based Method for Large-Scale Breaking Waves Simulation -- A Hierarchical Classification Method for Mammographic Lesions Using Wavelet Transform and Spatial Features -- Easy Rigging of Face by Automatic Registration and Transfer of Skinning Parameters -- Terrain Modeling with Multifractional Brownian Motion and Self-regulating Processes -- Image Encryption through Using Chaotic Function and Graph -- Robust Stamps Detection and Classification by Means of General Shape Analysis -- Pre-processing, Extraction and Recognition of Binary Erythrocyte Shapes for Computer-Assisted Diagnosis Based on MGG Images -- Analysis of Four Polar Shape Descriptors Properties in an Exemplary Application -- Single Frame Rate-Quantization Model for MPEG-4 AVC/H.264 Video Encoders -- A Robust Method for Nose Detection under Various Conditions -- Segmentation of Moving Cells in Bright Field and Epi-Fluorescent Microscopic Image Sequences -- Shape Representation and Shape Coefficients via Method of Hurwitz-Radon Matrices -- Characteristics of Architectural Distortions in Mammograms - Extraction of Texture Orientation with Gabor Filters.

Sommario/riassunto

The International Conference on Computer Vision and Graphics, ICCVG, or- nized since 2002, is the continuation of the International Conferences on C- puter Graphics and Image Processing, GKPO, held in Poland every second year from 1990 to 2000.

The founder and organizer of these conferences was Prof. W- ciech Mokrzycki. The main objective of ICCVG is to provide a forum for the exchange of ideas between researchers in the closely- related domains of computer vision and computer graphics.

ICCVG 2010 gathered about 100 authors. The proceedings contain 95 papers, each accepted on the grounds of two independent reviews. During the conference two special sessions were organized: Advances in Pattern Recognition, Machine Vision and Image Understanding and Human Motion Analysis and Synthesis. The content of the issue has been

divided into three parts. The first and second parts are related to the two special sessions mentioned above, containing 11 chapters each. The third part, named like the whole book, Computer Vision and Graphics, collects all the remaining chapters. ICCVG 2010 was organized by the Association for Image Processing, Poland (Towarzystwo Przetwarzania Obrazów - TPO), the Polish-Japanese Institute of Information Technology (PJWSTK), and the Faculty of Applied Informatics and Mathematics, Warsaw University of Life Sciences (WZIM SGGW). The Association for Image Processing integrates the Polish community working on the theory and applications of computer vision and graphics. It was formed between 1989 and 1991. The Polish-Japanese Institute of Information Technology, founded in 1994 by the Computer Techniques Development Foundation under the agreement of the Polish and Japanese governments, is one of the leading, non-state (private) Polish universities. We are highly grateful for the fact that the institute has been hosting and supporting the Conference.
