Record Nr. UNISA996465769103316 Progress in Pattern Recognition, Image Analysis and Applications **Titolo** [[electronic resource]]: 9th Iberoamerican Congress on Pattern Recognition, CIARP 2004, Puebla, Mexico, October 26-29, 2004. Proceedings / / edited by Alberto Sanfeliu, José F. Martínez Trinidad, Jesús A. Carrasco Ochoa Berlin, Heidelberg:,: Springer Berlin Heidelberg:,: Imprint: Springer, Pubbl/distr/stampa , 2004 3-540-30463-0 **ISBN** Edizione [1st ed. 2004.] Descrizione fisica 1 online resource (XVII, 706 p.) Lecture Notes in Computer Science, , 0302-9743 ; ; 3287 Collana Disciplina 006.4 Soggetti Pattern recognition Optical data processing Artificial intelligence Pattern Recognition Image Processing and Computer Vision Artificial Intelligence Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Bibliographic Level Mode of Issuance: Monograph Nota di bibliografia Includes bibliographical references at the end of each chapters and index. Nota di contenuto Use of Context in Automatic Annotation of Sports Videos -- Content Based Retrieval of 3D Data -- Clifford Geometric Algebra: A Promising Framework for Computer Vision, Robotics and Learning -- Adaptive Color Model for Figure-Ground Segmentation in Dynamic Environments -- Real-Time Infrared Object Tracking Based on Mean Shift -- Optimal Positioning of Sensors in 2D -- Computer Vision Algorithms Versus Traditional Methods in Food Technology: The Desired Correlation --Radiance Function Estimation for Object Classification -- Detecting and Ranking Saliency for Scene Description -- Decision Fusion for Object Detection and Tracking Using Mobile Cameras -- Selection of an Automated Morphological Gradient Threshold for Image Segmentation -- Localization of Caption Texts in Natural Scenes Using a Wavelet

Transformation -- A Depth Measurement System with the Active Vision of the Striped Lighting and Rotating Mirror -- Fast Noncontinuous Path

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Constant Range Method for Nonuniformity Correction of Infrared Image Sequences -- Color Cartographic Pattern Recognition Using the Coarse to Fine Scale Method -- Cerebral Vessel Enhancement Using Rigid Registration in Three-Dimensional CT Angiography -- Skeleton-Based Algorithm for Increasing Spectral Resolution in Digital Elevation Model -- Landform Classification in Raster Geo-images -- Homotopic Labeling of Elements in a Tetrahedral Mesh for the Head Modeling --Grey Level Image Components for Multi-scale Representation --Performance Improvement in a Fingerprint Classification System Using Anisotropic Diffusion -- Image Thresholding via a Modified Fuzzy C-Means Algorithm -- Video Object Segmentation Using Multiple Features -- Thinning Algorithm to Generate k-Connected Skeletons -- Image Processing Using the Quaternion Wavelet Transform -- Improving Pattern Recognition Based Pharmacological Drug Selection Through ROC Analysis -- Adaboost to Classify Plaque Appearance in IVUS Images -- SVM Applied to the Generation of Biometric Speech Key --Causal Networks for Modeling Health Technology Utilization in Intensive Care Units -- Medical Image Segmentation by Level Set Method Incorporating Region and Boundary Statistical Information --Measurement of Parameters of the Optic Disk in Ophthalmoscopic Color Images of Human Retina -- Global Interpretation and Local Analysis to Measure Gears Eccentricity -- Two Floating Search Strategies to Compute the Support Sets System for ALVOT -- Feature Selection Using Typical ?: Testors, Working on Dynamical Data --Supervised Pattern Recognition with Heterogeneous Features.

Sommario/riassunto

First of all, we want to congratulate two new research communities from M- ico and Brazil that have recently joined the Iberoamerican community and the International Association for Pattern Recognition. We believe that the series of congresses that started as the "Taller Iberoamericano de Reconocimiento de Patrones (TIARP)", and later became the "Iberoamerican Congress on Pattern Recognition (CIARP)", has contributed to these groupconsolidatione?orts. We hope that in the near future all the Iberoamerican countries will have their own groups and associations to promote our areas of interest; and that these congresses will serve as the forum for scienti?c research exchange, sharing of - pertise and new knowledge, and establishing contacts that improve cooperation between research groups in pattern recognition and related areas. CIARP 2004 (9th Iberoamerican Congress on Pattern Recognition) was the

ninthinaseriesofpioneeringcongressesonpatternrecognitioninthelberoa m- ican community. As in the previous year, CIARP 2004 also included worldwide participation. It took place in Puebla, Mexico. The aim of the congress was to promote and disseminate ongoing research and mathematical methods for pattern recognition, image analysis, and applications in such diverse areas as computer vision, robotics, industry, health, entertainment, space exploration, telecommunications, data mining, document analysis, and natural languagep- cessing and recognition, to name a few.