Record Nr. UNINA9910768163703321 Progress in Pattern Recognition, Speech and Image Analysis: 8th **Titolo** Iberoamerican Congress on Pattern Recognition, CIARP 2003, Havana, Cuba, November 26-29, 2003, Proceedings / / edited by Alberto Sanfeliu, José Ruiz-Shulcloper Pubbl/distr/stampa Berlin, Heidelberg:,: Springer Berlin Heidelberg:,: Imprint: Springer, 2003 **ISBN** 1-280-30796-X 9786610307968 3-540-24586-3 Edizione [1st ed. 2003.] 1 online resource (XVII, 696 p.) Descrizione fisica Collana Lecture Notes in Computer Science, , 0302-9743 ; ; 2905 006.4 Disciplina Soggetti Pattern perception Artificial intelligence Optical data processing Pattern Recognition Artificial Intelligence Image Processing and Computer Vision 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 Neurons, Dendrites, and Pattern Classification -- Robot Vision for Autonomous Object Learning and Tracking -- Graduated Scale Inspection Using Computer Vision -- Vision System for Subpixel Laser Stripe Profile Extraction with Real Time Operation -- Multi-channel Reconstruction of Video Sequences from Low-Resolution and Compressed Observations -- 3D Rigid Facial Motion Estimation from Disparity Maps -- Robust Techniques in Least Squares-Based Motion Estimation Problems -- Inexact Graph Matching for Facial Feature Segmentation and Recognition in Video Sequences: Results on Face Tracking -- Crater Marking and Classification Using Computer Vision -- Using Optical Flow for Tracking -- Another Paradigm for the

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Sommario/riassunto

CIARP 2003 (8th Iberoamerican Congress on Pattern Recognition) was the eighth event in a series of pioneering congresses on pattern recognition in the Latin American c- munity of countries. This year, however, the forum was extended to include worldwide participation. The event has been held in the past in Mexico, Cuba, Brazil and Porgal; it took place this year in Havana (Cuba). The aim of the congress was to promote and disseminate ongoing research into mathematical methods for pattern recognition, computer vision, image analysis, and speech recognition, as well as the application of these techniques in such diverse areas as robotics, industry, health, entertainment, space exploration, telecommunications, data mining, document analysis, and natural language processing and recognition to name a few. Moreover it was a forum for scienti?c re- arch, experience exchange, the sharing of new knowledge, and establishing contacts to improve cooperation between research groups in pattern recognition, computer vision and related areas. The congress was organized by the Institute of Cybernetics, Mathematics and P- sics of Cuba (ICIMAF) and the Center for Computing Research (CIC) of the National Polytechnic Institute of Mexico, and was sponsored by the University of La Salle, - xico, the University of Oriente, Cuba, the Polytechnic Institute "Jose 'A.