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Nota di contenuto	Message from the Book Series Editors and Advisory Committee -- Preface from the Editors -- Learning a family of detectors via multiplicative kernels, by Quan Yuan, Ashwin Thangali, Vitaly Ablavsky, Stan Sclaroff -- Facial expression recognition using faps-based 3DMMM , by Hamimah Ujir, Michael Spann -- SVM framework for incorporating content-based image retrieval and data mining into the SBIM image manager, by Luiz A. P. Neves, Gilson A. Giraldi -- Identification of foliar diseases in cotton crop, by Alexandre A. Bernardes, Jonathan G. Rogeri, Roberta B. Oliveira, Norian Marranghello and Aledir S. Pereira, Alex F. Araujo, João Manuel R.S. Tavares -- Towards ontological cognitive system, by Carles Fernandez, Jordi González, João Manuel R. S. Tavares, F. Xavier Roca -- A novel edge detector based on discrete t-norms for noisy images, by M. González-Hidalgo, S. Massanet, A. Mir -- Colour Quantisation as a Preprocessing Step for Image Segmentation, by Henryk Palus, Mariusz Frackiewicz. - Medical imaging and computational flow models in deformable ducts, by Marc Thiriet -- Tracking red blood cells in microchannels: a comparative study between an automatic and a manual method, by D. Pinho, R. Lima, A.I. Pereira, F. Gayubo -- A Survey for the Automatic

Classification of Bone Tissue Images, by J.E. Gil, J.P. Aranda, E. Mérida-Casermeiro, M. Ujaldón -- Colour video segmentation for the quantification of sweat dynamic function, by J.L. Quintero-Morales, E. Nava-Baro, A. García-Linares, B. Camacho-García, M.S. Dawid-Milner -- Current issues in medical thermography, by Ricardo Vardasca, Ricardo Simoes.- Detection of anatomic structures in retinal images, by José Pinão, Carlos Manta Oliveira, André Mora, João Dias -- Database System for clinical and computer assisted diagnosis of dermoscopy images, by B.S.R. Amorim, T.F. Mendonça.- Segmentation based pattern recognition for peri-urban areas in X band SAR images, by Bruno Cafaro, Silvia Canale, Alberto De Santis, Daniela Iacoviello, Fiora Pirri, Simone Sagratella -- Improving flood risk management in the city of Lisbon: developing a detailed and updated map of imperviousness using satellite imagery, by T. Santos, S. Freire.

Sommario/riassunto

The sixteen chapters included in this book were written by invited experts of international recognition and address important issues in Medical Image Processing and Computational Vision, including: Object Recognition, Object Detection, Object Tracking, Pose Estimation, Facial Expression Recognition, Image Retrieval, Data Mining, Automatic Video Understanding and Management, Edges Detection, Image Segmentation, Modelling and Simulation, Medical thermography, Database Systems, Synthetic Aperture Radar and Satellite Imagery. Different applications are addressed and described throughout the book, comprising: Object Recognition and Tracking, Facial Expression Recognition, Image Database, Plant Disease Classification, Video Understanding and Management, Image Processing, Image Segmentation, Bio-structure Modelling and Simulation, Medical Imaging, Image Classification, Medical Diagnosis, Urban Areas Classification, Land Map Generation. The book brings together the current state-of-the-art in the various multi-disciplinary solutions for Medical Image Processing and Computational Vision, including research, techniques, applications and new trends contributing to the development of the related areas. .
