# Lecture Notes in Computer Science 4225

*Commenced Publication in 1973*
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# Progress in Pattern Recognition, Image Analysis and Applications

11th Iberoamerican Congress
in Pattern Recognition, CIARP 2006
Cancun, Mexico, November 14-17, 2006
Proceedings

Springer

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Library of Congress Control Number: 2006933995

CR Subject Classification (1998): I.5, I.4, I.2.10, I.2.7, F.2.2

LNCS Sublibrary: SL 6 – Image Processing, Computer Vision, Pattern Recognition, and Graphics

ISSN 0302-9743
ISBN-10 3-540-46556-1 Springer Berlin Heidelberg New York
ISBN-13 978-3-540-46556-0 Springer Berlin Heidelberg New York

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© Springer-Verlag Berlin Heidelberg 2006
Printed in Germany

Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India
Printed on acid-free paper SPIN: 11892755 06/3142 5 4 3 2 1 0

# Preface

The ongoing success of the Iberoamerican Congress on Pattern Recognition (CIARP) reflects the growing need for developing new theory and applications of pattern recognition, which is being confronted by many reseachers. The 11th Iberoamerican Congress on Pattern Recognition (CIARP 2006) was the 11th event in the premier series of research agenda-defining conferences on pattern recognition in the Iberoamerican community. As in the previous years, CIARP 2006 attracted worldwide participation. 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 and remote sensing, industry, health, space exploration, data mining, document analysis, natural language processing and speech recognition, to name a few.

CIARP 2006, held in Cancun, Mexico, was organized by the Computer Science Department of the National Institute of Astrophysics, Optics and Electronics (INAOE). The event was sponsored by the Advanced Technologies Application Center of Cuba (CENATAV), the Mexican Association for Computer Vision, Neurocomputing and Robotics (MACVNR), the Cuban Association for Pattern Recognition (ACRP), the Portuguese Association for Pattern Recognition (APRP), the Spanish Association for Pattern Recognition and Image Analysis (AERFAI), the Special Interest Group on Pattern Recognition of the Brazilian Computer Society (SIGPR-SBC), and the Chilean Association for Pattern Recognition (ACHRP). CIARP 2006 was endorsed by the International Association for Pattern Recognition (IAPR).

Contributions were received from 36 countries. In total 239 papers were submitted, out of which 99 were accepted for publication in these proceedings and for presentation at the conference. The review process was carried out by the Scientific Committee, composed of internationally recognized scientists, all experts in their respective fields. We are indebted to them for their efforts and the quality of the reviews.

The exciting technical programme formed by the selected contributed papers was complemented by three invited keynote talks, given by:

- Gabriella Sanniti di Baja, Image Analysis Department of the Istitute of Cibernetics "E. Caianiello", CNR, Italy
- Petra Perner, Institute of Computer Vision and Applied Computer Sciences, Germany
- Jim Bezdek, University of West Florida, USA

They enriched the conference with an interesting mix of theoretical and application topics in pattern recognition.

We would like to thank the members of the Organizing Committee for their enormous effort that resulted in these excellent conference proceedings. We trust that the papers in this volume provide not only a record of the recent progress in this rapidly moving field but will also stimulate future research on machine perception for the benefit of industry, commerce, as well as the well-being of society.

November 2006

José Francisco Martínez-Trinidad
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