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Preface

The 14th Iberoamerican Congress on Pattern Recognition (CIARP 2009, Congreso IberoAmericano de Reconocimiento de Patrones) formed the latest of a now long series of successful meetings arranged by the rapidly growing Iberoamerican pattern recognition community.

The conference was held in Guadalajara, Jalisco, Mexico and organized by the Mexican Association for Computer Vision, Neural Computing and Robotics (MACVNR). It was sponsodred by MACVNR and five other Iberoamerican PR societies. CIARP 2009 was like the previous conferences in the series supported by the International Association for Pattern Recognition (IAPR).

CIARP 2009 attracted participants from all over the world presenting state-of-the-art research on mathematical methods and computing techniques for pattern recognition, computer vision, image and signal analysis, robot vision, and speech recognition, as well as on a wide range of their applications.

This time the conference attracted participants from 23 countries, 9 in Iberoamerica, and 14 from other parts of the world. The total number of submitted papers was 187, and after a serious review process 108 papers were accepted, all of them with a scientific quality above overall mean rating. Sixty-four were selected as oral presentations and 44 as posters. Since 2008 the conference is almost single track, and therefore there was no real grading in quality between oral and poster papers. As an acknowledgment that CIARP has established itself as a high-quality conference, its proceedings appear in the *Lecture Notes in Computer Science* series. Moreover, its visibility is further enhanced by a selection of a set of papers that will be published in a special issue of the journal *Pattern Recognition Letters*.

The conference program was highlighted by invited talks by four internationally leading scientists, Maria Petrou, Peter Sturm, Walter G. Kropatsch and Ioannis A. Kakadiaris, with topics on imaging architectures, 3D geometric modeling, pyramid representations and methods for analyzing CT data. Professors Petrou, Sturm and Kropatsch also contributed to the overall goal of promoting knowledge in the field in their tutorials on texture analysis, geometric methods in computer vision and pyramid representations. In two additional tutorials Eduardo Bayro-Corrochano and Dietmar Hildebrand presented insights on applying and implementing geometric algebra techniques in robot vision, graphics and medical image processing.

The full-day CASI 2009 Workshop on Computational Advances of Intelligent Processing of Remote Satellite Imagery, co-sponsored by IEEE GRSS and chaired by Yuriy Shkvarko, CINVESTAV, Unidad Guadalajara, was held in connection with the conference. For the CASI 2009 Workshop, after a double-blind review proces, 12 papers were accepted.

Another event that increaded the interest of the conference was the preceding first Mexican Workshop on Pattern Recognition (MWPR 2009). MWPR 2009 was organized by the Mexican Association for Computer Vision, Neural Computing ad Robotics (MACVNR). It was sponsored by the Computer Science Department of the National Institute of Astrophysics, Optics and Electronics (INAOE), and the Center for Computing Research of the National Polytechnic Institute (CIC-IPN). The aim of MWPR 2009 was to be a forum for exchanging scientific results and experiences, as well as sharing new knowledge, and increasing the co-operation between research groups in pattern recognition and related areas, in México.

As co-organizers of CIARP 2009, we would like to express our gratitude to both the supporting organizations and all those who contributed to the conference in other ways. We gratefully acknowledge the support from CINVESTAV and MACVNR and the other five Iberoamerican PR societies supporting the main meeting, as well as the support offered by the International Association for Pattern Recognition. We also extend our thanks to the organizations supporting our workshops.

We are particularly grateful to the Organizing Committee and the Program Committte for their devoted work leading to an impeccable review process. A special thanks must inevitably go to the members of the organizing Committee, who made this conference an excellent event through their serious work.

Finally, a conference is only as good and fruitful as the participants make it. We therefore, last but certainly not least, extend our deepest gratitude to all those who by their presence and contributions made this an excellent conference. We hope they enjoyed the meeting as much as we did.

September 2009

Eduardo Bayro-Corrochano
Jan-Olof Eklundh

Organization

The 14th Iberoamerican Congress on Pattern Recognition (Congreso Ibero-Americano de Reconocimiento de Patrones CIAP 2009) was held in Guadalajara, Jalisco, Mexico during November 15–18, 2009, and organized by the Mexican Association of Computer Vision, Neurocomputing and Robotics (MACVNR), endorsed by the International Association for Pattern Recogntion (IAPR).

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