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Image Analysis and Recognition

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Preface

Nine years ago we started the ICIAR series of annual conferences alternating between Europe and North America as a forum for researchers to interact and present their latest research in the theory, methodology, and applications of image analysis and recognition. We are pleased that ICIAR has maintained this forum and has become truly an international conference with participation from more than 30 countries on average.

ICIAR 2012, the International Conference on Image Analysis and Recognition, was held in Aveiro, Portugal, June 25–27, 2012. As in the past two years, ICIAR was organized at the same time as AIS 2012, the International Conference on Autonomous and Intelligent Systems. Both conferences are organized by AIMI – Association for Image and Machine Intelligence, a not-for-profit organization registered in Ontario, Canada.

For ICIAR 2012, we received a total of 207 full papers from 41 countries. The review process was carried out by members of the Program Committee and other reviewers. Each paper was reviewed by at least two reviewers, and checked by the Conference Chairs. A total of 107 papers were finally accepted and appear in the two volumes of these proceedings. We would like to sincerely thank the authors for responding to our call, and to thank the reviewers for the careful evaluation and feedback provided to the authors. It is this collective effort that resulted in the strong conference program and high-quality proceedings.

This year, the conference program included a focused day on “Biomedical Image Analysis” with the following two special sessions: “Recent Advances in Retinal Image Analysis” chaired by Ana Mendonça and Manuel Penedo; “Advanced Detection and Shape Modelling of Cells in Microscopy Images” chaired by Pedro Quelhas and João Sanches.

We were very pleased to include in the conference program four outstanding keynote talks by well-known scientists: Wiro Nissen, Delft University of Technology, The Netherlands; Rudolf Kruse, University of Magdeburg, Germany; Robert Fisher, Edinburgh University, UK; and Bioucas Dias, Instituto Superior Técnico, Portugal. We would like to express our gratitude to the keynote speakers for accepting our invitation to share their vision and recent advances in their areas of expertise which are at the core of the topics of the two conferences.

We would like to thank Khaled Hammouda, the webmaster of the conference, for maintaining the Web pages, interacting with the authors, and preparing the proceedings.

As all conferences, the success of ICIAR 2012 is attributed to the effort and work of many people including members of the Organizing Committee, staff, and volunteers. We gratefully acknowledge their support and efforts.

We are also grateful to Springer's editorial staff, for supporting this publication in the LNCS series. We also would like to acknowledge the professional service of Viagens Abreu in taking care of the registration process and the special events of the conference.

We hope this publication provides a good view into the research presented at the conference.

June 2012

Aurélio Campilho
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