

Preface

This is the 11th edition of the ICIAR series of annual conferences offering an opportunity for the participants to interact and present their latest research in theory, methodology, and applications of image analysis and recognition. ICIAR 2014, the International Conference on Image Analysis and Recognition, was held in Vila Moura, Portugal, October 22–24, 2014. ICIAR is organized by AIMI – Association for Image and Machine Intelligence, a not-for-profit organization registered in Ontario, Canada.

For ICIAR 2014, we received a total of 177 full papers from 39 countries. Before the review process all the papers were checked for similarity using a comparison database of scholarly work. 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 this proceedings. We would like to sincerely thank the authors for responding to our call, and we 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.

Each year we attempt to focus on a specific topic for the keynote speeches and conduct a panel discussion on the topic.

This year, the conference theme was focused on the topic “Sparse Representations for Image Analysis and Recognition.” We were very pleased to include three outstanding keynote talks on this topic: “Optimization Algorithms for Sparse Representations: Some History and Recent Developments” by Mário Figueiredo, Instituto Superior Técnico Portugal; “Morphological Diversities in Astrophysics” by Jean-Luc Starck, CosmoStat Laboratory, France; and “Sparse Stochastic Processes with Application to Biomedical Imaging” by Michael Unser, Ecole Polytechnique Fédérale de Lausanne, Switzerland. The keynote speakers also participated in the panel “Sparse Representation for Image Analysis and Recognition: Trends and Applications.” 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 conference.

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 2014 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.

Finally, we are very pleased to welcome all the participants to ICIAR 2014. For those who were not able to attend, we hope this publication provides a good view into the research presented at the conference, and we look forward to meeting you at the next ICIAR conference.

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