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Aurélio Campilho · Fakhri Karray  
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# Image Analysis and Recognition

15th International Conference, ICIAR 2018  
Póvoa de Varzim, Portugal, June 27–29, 2018  
Proceedings

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ISSN 0302-9743                      ISSN 1611-3349 (electronic)  
Lecture Notes in Computer Science  
ISBN 978-3-319-92999-6              ISBN 978-3-319-93000-8 (eBook)  
<https://doi.org/10.1007/978-3-319-93000-8>

Library of Congress Control Number: 2018944436

LNCS Sublibrary: SL6 – Image Processing, Computer Vision, Pattern Recognition, and Graphics

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Printed on acid-free paper

This Springer imprint is published by the registered company Springer International Publishing AG part of Springer Nature  
The registered company address is: Gewerbestrasse 11, 6330 Cham, Switzerland

# Preface

ICIAR 2018 was the 15th edition of the series of annual conferences on image analysis and recognition, offering a forum to the participants to interact and present their latest research contributions in theory, methodology and applications of image analysis and recognition. ICIAR 2018, the International Conference on Image Analysis and Recognition, was held in Póvoa de Varzim, Portugal, June 27–29, 2018. ICIAR is organized by AIMI, the Association for Image and Machine Intelligence, a not-for-profit organization registered in Ontario, Canada.

We received a total of 179 papers from 44 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 106 papers were finally accepted and appear in 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.

We were very pleased to include three outstanding keynote talks: “Deep Learning for Imaging Diagnostics” by Bram van Ginneken, Radboud University, The Netherlands; “Learning to Understand Human Behavior: In Multimedia, Surveillance, and Automotive” by Rita Cucchiara, Università di Modena e Reggio Emilia, Italy; and “Eyes Are the Windows of the Body: The Analysis of Corneal and Retinal Images” by Alfredo Ruggeri, University of Padua, Italy. 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.

Two successful parallel events took place: the special session on “Novel Imaging Methods for Diagnosis and Screening of Ophthalmic Diseases” co-chaired by Koen Vermeer, Rotterdam Eye Hospital, The Netherlands and by Ana Maria Mendonça, University of Porto, Portugal; and the “Grand Challenge on Breast Cancer Histology Images,” organized by Teresa Araújo and Guilherme Aresta (INESC TEC, Institute for Systems and Computer Engineering, Technology and Science, Portugal), Catarina Eloy, António Polónia and Paulo Aguiar (I3S – Instituto de Investigação e Inovação em Saúde, Portugal). Awards were distributed among the four teams with best performance in the challenge. We were also very pleased to announce that a Springer prize was awarded to the three best papers of the conference.

We would like to thank Dr. Khaled Hammouda, the webmaster of the conference, for maintaining the website, managing the registrations and reviews logistics, interacting with the authors, and preparing the proceedings. We are also grateful to Springer’s editorial staff, for supporting this publication in the LNCS series. Furthermore, we would like to acknowledge the members of the local Organizing Committee and Abreu Events for supporting the organization of the conference.

The event took place in the wonderful setting of the Axis Vermar Conference and Beach Hotel, Póvoa de Varzim, Portugal, which guaranteed many scientific and social interactions.

Finally, we were very pleased to welcome all the participants to ICIAR 2018. For those who were not able to attend, we hope this publication provides a good overview of the research presented at the conference, and we look forward to meeting you at the next ICIAR conference.

June 2018

Aurélio Campilho  
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