

Preface

This volume contains the papers presented at the First Workshop on Reproducible Research in Pattern Recognition (RRPR 2016) held on December 4, 2016, in Cancún. This workshop aims to give an overview of reproducible research (RR) for authors, with a special focus on pattern recognition algorithms. The call for papers was organized into two main tracks: RR Frameworks and RR Results. The first track was dedicated to the general topic of reproducible research in computer science with papers describing experiences, frameworks, and platforms. The second track focus on the description of previous works in terms of RR. The latter track contained ICPR companion papers describing their quality of RR. A total of 16 submissions were received with eight papers submitted to track 1 of RR Frameworks, six papers to track 2 of RR Results, and two papers associated with the invited talks. After a reviewing process including mostly three reviewers per paper, six papers were accepted as oral presentations and four as posters.

The different topics of the workshop were equitably represented with six presentations for the RR Framework track and five presentations for the RR Result track. Two invited presentations were given during the workshop. The first one was a presentation of the *Image Processing On Line* journal (IPOL) presented by Pascal Monasse in a common work with Miguel Colom. The second invited talk was given by Daniel Lopresti and Bart Lamiroy with a presentation of the DAE platform in the context of RR. There were around 30 attendees.

For its first edition, the RRPR committee introduced the “Reproducible Label in Pattern Recognition” in order to highlight the reproducible aspects of the RRPR and ICPR works. The work of the authors who obtained the this label is archived and publicly available in the GitHub account of the Organizing Committee, <https://github.com/RLPR>. Finally a selection of papers will be invited to an RRPR IPOL special issue (www.ipol.im).

We are pleased that RRPR received, for its first edition, the endorsement of the International Association of Pattern Recognition (IAPR). We would like to thank this association, all contributors, invited speakers, and the scientific committee for the high-quality works including papers, algorithms, and source code reviews. We also express our gratitude to the ICPR 2016 committees and in particular to the ICPR Workshop chairs: Prof. Humberto Sossa Azuela, Prof. Markus Vincze, and Prof. Hugues Talbot. We also thank the Springer Computer Sciences team, and in particular Alfred Hofmann and Anna Kramer, for allowing us to publish the proceedings as an LNCS volume. Finally we also thank Jean-Michel Morel for supporting our initiative and Audrey Bichet of the MMI department of Saint Dié-des-Vosges for designing the logo and the poster of this workshop.

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