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## Reproducible Research in Pattern Recognition, Second International Workshop, RRPR 2018

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## Preface

This volume contains the articles from the second edition of the Workshop on Reproducible Research in Pattern Recognition that was held during August 20, 2018, in conjunction with ICPR 2018 in Beijing. It followed in the same spirit as the first edition with a special focus on digital geometry and mathematical morphology. It was intended as both a short participative course on reproducible research (RR) aspects leading to open discussions with the participants and also on how to actually perform RR. For this second edition, a new call for short papers was proposed to the ICPR authors. The main idea was to give authors of already accepted ICPR papers the possibility to highlight the reproducibility of their work with a companion paper. It was an opportunity to include implementation details, source code descriptions, parameter choice etc.

This proceedings volume gathers 14 contributions covering the RR result track (three papers), invited RR contributions (five papers), and the new companion paper tracks (six papers). The contributions were reviewed by an average of 2.35 reviewers and the short papers were generally given two assessments: one for the short paper itself and another from the RR label linked to the code repository (when authors apply for the label). A comparable number of participants were present in this workshop with around 25 participants. The public participated actively in the discussions with presenters focusing on RR. The number of authors increased by over 45% for this second edition with 41 different authors.

From all the contributions, two invited talks opened the workshop. The first was related to the evolution and the future of the *IPOL* journal, including a new structure for machine learning applications. The second invited talk focused on a review of reproducible research platforms with an overview of the most recent means of publication. The three main papers on RR results were oral presentations and four short papers were oral fast-track presentations. In addition to these new classic presentations, a new type of practical session was proposed by Miguel Colom with “Hands on IPOL Demonstration System” where users were able to construct their own online demonstration from a simple description file.

As in the first edition, the RRPR workshop received the endorsement of the International Association of Pattern Recognition (IAPR). We would like to thank this association as well as all authors who contributed to these proceedings. We also thank the Springer computer sciences team and in particular Alfred Hofman and Anna Kramer, for allowing to us once again 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 a new poster for this workshop.

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