ICPR 2022 Workshop on
Reproducible Research in Pattern Recognition
Montréal – Canada
21 August 2022
joint with ICPR 2022

Contact: rrpr2022@sciencesconf.org
Follow us on twitter: @RRPR_Workshop

Special Track on Geometry and Deep Learning

Important dates

- Main submission deadline including ICPR companion paper: **14 April 2022**
- Author notification: **14 May 2022**
- Second round of ICPR companion paper: **15 June** (notification 15 July)
- **Post Proceedings** publication with LNCS Springer Nature **September**

Aim

Following the success of the three first editions, we propose the 4th edition of the ICPR workshop on Reproducible Research in Pattern Recognition. RRPR 2022 is intended as both a short participative course on the Reproducible Research (RR) aspects, leading to open discussions with the participants, and also as a practical workshop on how to actually perform RR. In addition, another key goal for gathering the research community together is to further advance the scientific aspects of reproducibility in pattern recognition research.

This workshop is of interest for all ICPR participants and attendees since it allows to handle various topics not restricted to one specific field. The reproducibility is an important topic in general and particularly good for PhD students and young researchers to learn "good habits". Following the third edition a special track on Geometry and Deep Learning is also proposed.

Call for Papers

This Call for Papers expects two main kinds of contributions.

The first (**Track 1 on RR Frameworks**) is dedicated to the general topics of Reproducible Research in experimental Computer Science with clear links to Image Processing and Pattern Recognition. Papers describing experiences, frameworks or platforms are welcome. The contributions might also include discussions on software libraries, experiences highlighting how the works benefit from Reproducible Research.

In the second kind of contributions (**Track 2 on RR Results**), authors will be invited to describe their works in terms of Reproducible Research. For example, authors of papers already accepted to ICPR might propose a companion paper describing the reproducible aspects.

The papers of the **two tracks** can focus mainly (but not limited):

- Platform developpement for RR
- Benchmark framework or ML dataset
- Algorithmic implementation details
- Link to implementation with source code given by the authors (for example, a link to GitHub or other website.
- Influence of parameter(s) for the result quality (criteria to optimize them).
- Integration of source code in an other framework.
- Known limitations (or difficult cases).
- Future improvements.
- Installation procedure.

For the **Track 2 on RR Results**, the topics can overlap with the main topics of the ICPR tracks:

- Geometry and Deep Learning (special track)
- Discrete Geometry and Mathematical Morphology
- Pattern Recognition and Machine Learning
- Computer Vision and Robot Vision
- Image, Speech, Signal, and Video Processing
- Document Analysis, Biometrics, and Pattern Recognition Applications
- Biomedical Image Analysis and Applications

Call for ICPR 2022 Companion Papers

This new call is proposed specifically to ICPR 2022 authors: its aims is to give the possibility to present reproduction details of their main ICPR contribution. These papers can be considered as **ICPR 2022 companion papers**, the page length are usually between 4 and 7 pages using the LNCS layout (if you may to need more pages please contact us when submitting your work). All accepted papers will be published together with the other contributions and are invited to apply to the reproducible label.

Reproducible Label together with ReproducedPapers.org

The RRPR committee announces the "Reproducible Label in Pattern Recognition" in order to highlight the reproducible aspects of the RRPR and ICPR works. All authors of papers already accepted to ICPR can apply. For this fourth edition, we are happy to announce that the Label will be linked to the ReproducedPapers.org platform.

Steering Committee

- Bertrand Kerautret (main chair, LIRIS, de Lyon 2, Lyon)
- Miguel Colom (Centre Borelli, ENS Paris-Saclay)
- Daniel Lopresti (Lehigh University, Bethlehem, PA 18015)
- Pascal Monasse (LIGM, École des Ponts Paris)
- Jean-Michel Morel (Centre Borelli, ENS Paris-Saclay)
- Benjamin Perret (ESIEE, Université Gustave Eiffel)
- Hugues Talbot (Center for Numerical Vision, CentraleSupelec, Paris)
- Burak Yildiz (Delft University of Technology, Delft, The Netherlands)

Reproducible Label Chair

- Adrien Krähenbühl (krahenbuhl@unistra.fr, ICube, University of Strasbourg)

Special Track on Geometry and Deep Learning Chairs

- Carlos Crispim-Junior (LIRIS, Université de Lyon 2) - Nicolas Mellado (CNRS, IRIT, Université de Toulouse)
- Jonathan Weber (IRIMAS, Université de Haute-Alsace)