











IPOL Journal - Image Processing On Line <a href="https://www.ipol.im">www.ipol.im</a>



# **IPOL MLBriefs 3 31/05 — 01/06**

Day 3

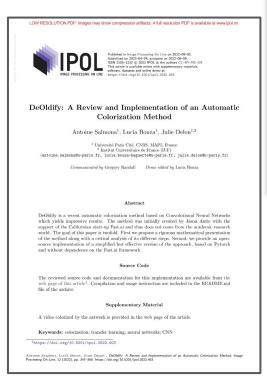
### **Today**

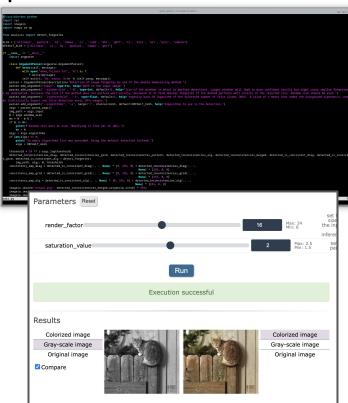
- Morning:
  - How to submit your articles to IPOL/MLBriefs?
  - Examples of good articles
  - O What now?
  - Round table of issues encountered
  - Authors start working in the workshop rooms
- Lunch: 13:00, 1E29
- Afternoon
  - Authors work on their demo in the workshop rooms
  - Coffee break at 15:30, delivered directly to the working spaces

#### What now?

- Finish and submit your works
  - Submission deadline: June 30th, 2023
  - Best paper awards will be given at the MLBriefs 3 presentation
- Announcing MLBriefs 3 presentation
  - Tuesday, December 12th, 2023
  - Here, at the ENS Paris-Saclay
  - More information to come soon
- MLBriefs 4
  - MLBriefs will now happen on a yearly basis
  - Next session: May or June 2024

### What is an IPOL publication?







#### IPOL or MLBriefs tracks

MLBriefs track	IPOL track
Typically short paper (about 5 single-column pages)	More extensive paper
Relatively brief description of the method (Mainly qualitative) experiments to highlight the strengths and flaws of the method and the impact of the different parameters.	The method is fully described in pseudo-code, which corresponds to the code (same functions). If any learning, it is fully described, ideally retrained by the authors.  Experiments remain, they can be more expansive.
Same method as the original.	Improvements on the method can be proposed
The code can be in any language.	Python, C, C++, Matlab/octave (possible exceptions)
The article and demo are peer-reviewed. The code is <b>not</b> peer-reviewed.	The article, demo and code are peer-reviewed.  Guarantee of reproducibility: The code corresponds exactly to the pseudocode.
Ideal on methods that are not yours: easy to prepare without delving into the code	Ideal for your own works or methods you studied and understand very well: the pseudo-code is then easy to write

#### Examples of good papers

- Use them for inspiration, keep in mind there is not one single way and style to write a good paper
- MLBriefs track
  - Image Forgery Detection via Forensic Similarity Graphs
  - A Brief Analysis of the SwinIR Image Super-Resolution
  - Disparity Estimation Networks for Aerial and High-Resolution Satellite Images: A Review
  - Monocular Depth Estimation: a Review of the 2022 State of the Art
- IPOL track
  - LSD: a Line Segment Detector
  - Image Forgeries Detection through Mosaic Analysis: the Intermediate Values Algorithm
  - ZERO: a Local JPEG Grid Origin Detector Based on the Number of DCT Zeros and its Applications in Image Forensics
  - Association Rules Discovery of Deviant Events in Multivariate Time Series: An Analysis and Implementation of the SAX-ARM Algorithm

## Paper template

https://www.overleaf.com/read/kvwrsvwmmgnb

#### Paper size

- No set min or max page limit, but remain reasonable
- Typical sizes: 5-10 pages for MLBriefs track, 20-30 pages for IPOL track
- No need to use dozens of examples to prove one single point
- Papers that are too long will take longer to review, and will be more easily rejected for this reason
- If you see your paper will be much longer than the limit, contact us first so we can discuss whether the length is appropriate for your work or where it could be cut down
- No hard limit, it is about the time it takes to read, not the bare length
  - A paper with a lot of figures and images can be longer than a paper with few figures

#### Method description

- IPOL track: Each function in the code should be described in pseudo-code in the article. Keep the functions names and separations matching between the article and the code
- IPOL track: Fully describe the training process (if applicable). Ideally, retrain it yourself to make sure the model was trained fairly (If reasonable in terms of resources)
- MLBriefs track: The above is not required (but always appreciated), the description can be simpler. Still give as much information as possible about the training (if this information is available)
- For the pseudo-code, use algorithm2e (for consistency between articles)
- An example configuration of the package with keywords and our custom namedinputs package are provided in the template: feel free to use them or to make your own

#### Experiments

- Mainly qualitative experiments
- Quantitative results on datasets are welcome too (especially if they prove something, like a robustness or weakness to false positives) but not at the core of the article
- The experiments should highlight the strengths, limitations of the method. If your method have parameters, it should show how to set them best and the impact of each parameter
- All the inputs in the qualitative experiments should be available as blobs in the demo
- For each experiment, write the name of the image in the blobs, as well as the parameters used (if applicable)

#### Figures and tables

- Use as many figures, tables and images (within figures) as needed (as long as each figure serves a point)
- Graphics should be kept at a high resolution (a low-resolution version will be automatically generated)
- One figure, one idea: If you present different ideas, they should be in different figures (unless the figure for both is really the same)
- Keep your figures large and legible: This is not a page-limited conference paper
- Save graphs, charts, etc as .eps files (or at worst as .png at a high enough resolution), never as .jpeg (lines and text will be blocky)
- Save photos as .png or .jpeg (without too much compression)
- Figures and tables preferably at the top of pages (\begin{figure}[t])
- Each figure or table should have a caption which completely describes the figure and its interpretation (even if it repeats the main body): a reader will usually look at the figures before reading the paper, so he should understand the main ideas from those.
- Tables and tabular: Use the booktabs package, usually with a \toprule at the top of the table, a \midrule to separate the headers/footers from the results, \cmidrules to make categories, a \bottomrule at the bottom. Avoid using \hline which does not render as well. Never put vertical line separators
- All images should be credited at the end of the paper (see the template)

#### Submission process

- MLBriefs track: easily on <u>https://docs.google.com/forms/d/e/1FAIpQLSfMvyD55Api9CeKEHufL6qo1E3e7ikM\_iKhHZsMRkhNv5DQ0A/viewform?usp=sf\_link</u>
- IPOL track:
  - IPOL-track submissions should be submitted via <u>OJS</u>.
  - Register in the system (please don't use a gmail email address).
  - o Once registered, create a new article submission.
  - Make sure your submission includes:
    - Your article in PDF.
    - A link to the github repository of your code, with the branch and rev to be reviewed, or an archive in the ZIP format containing your code without large files (the archive should not exceed 20 Mb).
    - If applicable, a link to the large files in the code, that were not included above. (e.g. model weights)
    - An URL to the original code (e.g. github link including a commit hash). If possible, include the license of the code.
- Submission deadline: 30th June 2023
- Papers submitted by this deadline will be reviewed for presentation in the MLBriefs 3 presentation, and will be considered for best paper awards
- Late papers will still be reviewed, but may not be reviewed in time for the MLBriefs 3 presentation, and may not be considered for best papers awards

#### Feedback

You will shortly receive a feedback form.

Thank you for your time and participation.

# Issues encountered

Questions