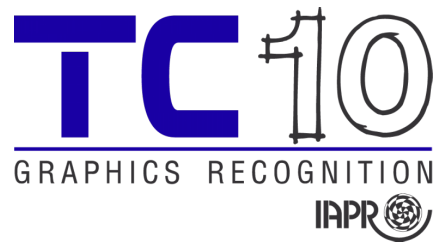


[IAPR-TC10] Newsletter 150 – March 2022

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Welcome to the March edition of the TC10 newsletter.

In this issue, you will find the approaching deadlines for **ICFHR-IJDAR journal track**, **DAS short papers** and **MANPU pre-call** for paper. In addition to this, you will find two postdoctoral positions in France.

Please take care,

Christophe Rigaud
IAPR-TC10 Communications Officer



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Call for contributions: feel free to contribute to TC10 newsletters, by sending any relevant news, event, notice, open position, dataset or link to us on [iapr.tc10\[at\]gmail.com](mailto:iapr.tc10@gmail.com)

1) Upcoming deadlines and events

2022

- Deadlines:
 - **March 14**, *tutorial proposal submission* ICPR 2022 (<http://www.icpr2022.com>)
 - **March 15**, *journal track submission deadline* ICFHR-IJDAR (<http://icfhr2022.org/call-for-journal.php>)
 - **May 1**, *bid proposal deadline* ICPR 2026 (<https://iapr.org/conferences/proposals.php>)
 - **May 13**, *paper submission deadline* MANPU 2022
 - **May** *paper submission deadline* ICFHR 2022 (<http://icfhr2022.org/>)

- Events:
 - **May 22-25**, conference DAS 2022 (<https://das2022.univ-lr.fr/>), La Rochelle, France
 - **June 1-3**, conference (<https://das2022.univ-lr.fr/>)ICPRAI 2022 (<https://icprai2022.sciencesconf.org/>), Paris, France
 - **August 21**, workshop MANPU 2022, Montréal, Québec (QC), Canada
 - **August 21-25**, conference ICPR 2022 (<http://www.icpr2022.com>), Montréal, Québec (QC), Canada
 - **October 16-19**, conference ICIP 2022 (<https://2022.ieeeicip.org>), Bordeaux, France
 - **December 2022**, conference ICFHR 2022 (<http://icfhr2022.org/>), Hyderabad, India

2023 and later

- Events:
 - **August 2023**, conference ICDAR 2023 (<https://icdar2023.org/>), San José, California, USA

2) Call for Papers: ICFHR – IJDAR Special Edition

As part of ICFHR 2022, we introduce the ICFHR-IJDAR journal track similar to ICDAR-IJDAR journal tracks in ICDAR 2019 and 2021. This journal track would provide the benefit of rapid and timely turnaround of the scientific developments to the community offered by conferences while maintaining the rigor and discipline of the journal review. We would like to invite exceptional works from the field of handwriting recognition that extend significantly from a typical conference paper.

Author Guidelines

- Survey papers and papers introducing new datasets are welcome
- Papers proposing tools will not be accepted. They should be submitted in conference
- Papers should be well written, concise and clearly motivate the problem and communicate the proposed solution
- Papers should be comprehensive, complete and self contained. They should not be understood only in association with other paper(s)
- Submissions accepted for this special edition will receive an oral presentation in the conference
- Manuscripts should be limited to 20 pages (two columns, double spaced and inclusive of figures), except for cases where the topic warrants additional space. Authors proposing papers longer than 20 pages should provide detailed justification to the editors in the cover letter for the submission. Editors will review requests on a case by case basis.

Areas of Interest

The topics of interest are identical to the ICFHR conference, which are the following:

- Handwriting Recognition
- Cursive Script Recognition
- Symbol, Equation, Sketch and Drawing Recognition
- Handwritten Document Processing and Understanding
- Language Models in Handwriting Recognition
- Web-Based Applications
- Handwritten Databases and Digital Libraries
- Information Extraction & Retrieval
- Signature Recognition and Verification
- Recognition of Handwritten Graphical Documents



- Document Characterization
- Layout Analysis
- Form Processing
- Word Spotting
- Bank-Check Processing
- Historical Document Processing
- Forensic Studies and Security Issues
- Writer Verification and Identification
- Metrics and Evaluation
- Electronic Ink and Pen-Based Systems
- Other Offline and Online Applications
- Writing in the Air

Important Dates

The timeline for the activities is given below.

Activities	Dates
Initial submission deadline	March 15, 2022
Initial decisions	May 15, 2022
Submission of revised journal papers	Jun 15, 2022
Final decisions	August 31, 2022

Guest Editors

Alicia Fornés

Utkarsh Porwal

Faisal Shafait

ICFHR Conference Page – <http://icfhr2022.org/index.php> (<http://icfhr2022.org/index.php>)

3) Call for short paper DAS 2022

What: 15th IAPR International Workshop on Document Analysis Systems

Where: La Rochelle, France + online

URL: <https://das2022.univ-lr.fr/> (<https://das2022.univ-lr.fr/>)

DAS 2022 is the 15th international IAPR-sponsored workshop dedicated towards system-level approaches and related challenges in document analysis and recognition. Short papers provide an opportunity to report on research in progress, to present demos and novel positions on document analysis systems. Short papers (up to 4 pages in length) will undergo review and will appear in an extra booklet, not in the official DAS2022 proceedings.

Submission link : <https://easychair.org/my/conference?conf=das2022> (<https://easychair.org/my/conference?conf=das2022>)

IMPORTANT DATES FOR SHORT PAPERS



15 March 2022: short paper submission deadline

01 April 2022: short paper acceptance notification

22 April 2022: short paper camera ready version

ABOUT DAS 2022

DAS 2022 is the 15th international IAPR-sponsored workshop dedicated towards system-level approaches and related challenges in document analysis and recognition. This includes models, methods, and relevant applications satisfying real-world engineering requirements. The workshop provides an exciting platform for interactions and high-level technical exchanges between industrial and academic communities. The DAS 2022 program will include invited talks, oral and poster paper presentations, tutorials, demonstrations, and working group discussions.

DAS 2022 will be held in the historical city of La Rochelle located on the French Atlantic coast. La Rochelle is famous for its old port, stunning seaside views, urban beaches, and for the second largest private aquarium in Europe. Online/virtual participation will also be available for DAS 2022 authors and participants.

TOPICS OF INTEREST

- * Document analysis systems
- * Document understanding
- * Layout analysis
- * Camera-based document analysis
- * Document analysis for digital humanities
- * Document analysis for libraries and archives
- * Document analysis for the internet
- * Document analysis for mobile devices
- * Document authentication
- * Document datasets
- * Document image watermarking
- * Document retrieval
- * Deep learning for document analysis systems
- * Information extraction from document images
- * Graphics recognition
- * Table and form processing
- * Mathematical expression recognition
- * Forensic document analysis
- * Historical document analysis



- * Multilingual document analysis
 - * Multimedia document analysis
 - * Pen-based input and its analysis
 - * NLP for document analysis
 - * Human document interaction
 - * Authoring, annotation, and presentation systems
 - * Performance evaluation
 - * Applications
-

4) Pre – call for paper MANPU 2022

5th International Workshop on coMics ANalysis, Processing and Understanding

Pre - Call for papers (in conjunction with ICPR 2022)
August 21, 2022, Montreal, Canada

Comics is a medium constituted of images combined with text and other visual information in order to narrate a story. Nowadays, comic books are a widespread cultural expression all over the world. The market of comics continues to grow, for example, the market in Japan is about 4.25 billion USD in 2015. Moreover, from the research point of view, comics images are attractive targets because the structure of a comics page includes various elements (such as panels, speech balloons, captions, leading characters, and so on), the drawing of which depends on the style of the author and presents a large variability. Therefore comics image analysis is not a trivial problem and is still immature compared with other kinds of image analysis.

Important dates

Paper submission due: May 13, 2022

Notification of acceptance: May 31, 2022

Camera-ready paper due: June 6, 2022

Workshop day: August 21, 2021

Scope and Topics

The scope of this workshop includes, but is not limited to,

- Comics Image Processing
- Comics Analysis and Understanding
- Comics Recognition
- Comics Retrieval and Spotting



- Comics Enrichment
- Born Digital Comics
- Reading Behavior Analysis of Comics
- Comics Generation
- Copy protection – Fraud detection
- Physical/Digital Comics Interfaces
- Cognitive Processing and Comprehension of Comics
- Linguistics Analysis of Comics

Datasets

To evaluate the proposed works, participants will be able to use the following datasets that are publicly available. Researchers can request to download them at each website.

– eBDtheque consists of 100 images with ground truth for panels, speech balloons, tails, text lines, leading characters: <http://ebdtheque.univ-lr.fr/> (<http://ebdtheque.univ-lr.fr/>)

– Manga109 consists of over 20 thousand images of 109 volumes (21,142 images): <http://www.manga109.org/en/> (<http://www.manga109.org/en/>)

Paper Submissions

Submission and Review

All papers will have to be submitted through the EasyChair submission system on or before the submission deadline. Authors can update their papers before the submission deadline. MANPU 2022 will follow a single-blind review process.

Guidelines for the authors will be publish soon (website under construction)

General Co-Chairs

Jean-Christophe Burie (France)

Motoi Iwata (Japan)

Miki Ueno (Japan)

Program Co-Chairs

Rita Hartel (Germany)

Ryosuke Yamanishi (Japan)

Tien-Tsin Wong (Hong Kong)

Advisory Board

Kiyoharu Aizawa (Japan)

Koichi Kise (Japan)



5) Job offers

Research Engineer/PostDoc Position (2.5 Years) – IRISA/INSA Rennes (France)

Title: Combining Deep and Syntactical Models for a Self-adaptive Optical Music Recognition System applied on Historical Orchestra Scores

PDF version: https://www.intuidoc.irisa.fr/files/2021/10/SujetInge_Collabscore.pdf (https://www-intuidoc.irisa.fr/files/2021/10/SujetInge_Collabscore.pdf)

Important Dates

April 1, 2022 - November 30, 2024 Contract period

IRISA – Intuidoc

IRISA is a joint research center for Informatics, including Robotics and Image and Signal Processing. 850 people, 40 teams, explore the world of digital sciences to find applications in healthcare, ecology-environment, cyber-security, transportation, multimedia, and industry. INSA Rennes is one of the 8 trustees of IRISA.

The Intuidoc team (<https://www.irisa.fr/intuidoc> (<https://www.irisa.fr/intuidoc>)) conducts research on the topic of document image recognition. Since many years, the team proposes a system, called DMOS-PI method, for document structure analysis of documents. This DMOS-PI method is used for document recognition, or field extraction in archive documents, handwritten contents damaged documents (musical scores, archives, newspapers, letters, electronic schema, etc.).

Collabscore project

Collabscore is a project founded by ANR (French Research National Agency), led by the CNAM. The goal is to study ancient scores provided by the BNF (Bibliothèque National de France) and Royaumont foundation. Collabscore is a multidisciplinary project. The first task consists in improving OMR (Optical Music Recognition) results using learning techniques. The second action will focus on methods for automatic alignment of the scored score with other multimodal sources. The last one will set up demonstrators based on notated scores at two of the project partners, representative, in various ways, of institutions in charge of musical heritage collections (BnF and Fondation Royaumont). Intuidoc team focuses on the first task of musical score recognition.

Position to be filled

- Position: Post-doctoral fellow / Research Engineer
- Time commitment: Full-time
- Duration of the contract: up to 32 months, starting as soon as possible
- Supervisors: Bertrand Couasnon, Aurélie Lemaitre, Yann Soullard
- Indicative salary: Up to €36 000 gross annual salary (according to experience), with social security benefits
- Location: IRISA – Rennes, France



Missions

The post-doctoral/engineer fellow will work on the conception of a OMR system. Based on previous works of our research team, the goal of this position is to enrich an existing system (DMOS-PI) to get a complete self-adaptive OMR system for historical orchestra scores. The tasks are mainly:

- define a grammatical description of musical notation, using the existing DMOS-PI method;
- generate unsupervised data for training musical symbols recognizers, using the Isolating-GAN, a novel unsupervised music symbol detection method based on Generative Adversarial Network (GAN);
- create a gradual mechanism for adapting the system to new partitions to build a self-adaptive system with few annotated data;
- integrate anomaly detection into the system.

Logical programming from grammars and languages is expected in this work. Machine Learning methods, especially Deep learning-based approaches (GAN, RCNN, SSD...), will be used to solve some of the tasks, as done in our previous works on music symbol detection.

Applicant Requirements

- PhD, Master degree or Engineering degree in computer science
- Experience in document recognition or statistical analysis.
- Skills in grammars and languages and/or logical programming are nice-to-have, as well as knowledge of music notation.
- Knowledge in deep learning with an experience with at least one library dedicated to deep learning (Keras, Tensorflow, Pytorch) are expected.

Candidates should contact via email: Bertrand Couasnon (bertrand.couasnon@irisa.fr) (<mailto:bertrand.couasnon@irisa.fr>), Aurélie Lemaitre (aurelie.lemaitre@irisa.fr) (<mailto:aurelie.lemaitre@irisa.fr>) and Yann Soullard (yann.soullard@irisa.fr) (<mailto:bertrand.couasnon@irisa.fr>)).

Post-doctoral research position – L3i – La Rochelle, France

Title: Extraction of information in “Bande Dessinée” / Manga / Comics albums

The L3i laboratory has one open post-doc position in computer science, in the specific field of document image analysis and pattern recognition.

Duration: 24 months

Position available from: October 1st, 2021

Salary: approximately 2100 € / month (net)

Place: L3i lab, University of La Rochelle, France

Specialty: Computer Science/Image Processing/Document Analysis/Pattern Recognition/Deep Learning

Contact: Jean-Christophe BURIE ([jcburie\[at\]univ-lr.fr](mailto:jcburie[at]univ-lr.fr))

Position Description

The L3i is a research lab of the University of La Rochelle. La Rochelle is a city in the south west of France on the Atlantic coast and is one of the most attractive and dynamic cities in France. The L3i works since several years on document analysis and has developed a well-known expertise in ‘Bande dessinée’, manga and comics analysis, indexing and understanding.



The work done by the post-doc will be part of the **SAIL** (Sequential Art Image Laboratory) a joint laboratory

involving L3i and a private company. The objective is to create innovative tools to index and interact with digital comics. The work will be done in a team of 10 researchers and engineers.

The work entrusted to the recruited person will consist in developing original approaches for extracting relevant information in comics panels in order to understand its content. The team has already developed some methods to extract panels, speech balloons, text, characters (persons), faces. However, the large variability of representation of these elements requires to propose different approaches or strategies. According to the skills and knowledge of the candidate, he/she will be able to work to improve methods dedicated to one of these elements.

Other challenges may also be considered such as :

- Detection and understanding of the scenery (sea, countryside, city, ...)
- Detection and understanding of the context of the scene (battle, discussion, people eating, ...)
- Object detection and recognition (bicycle, car, table, chair, ...)
- ...

Traditional and/or deep learning-based strategies can be studied to achieve these objectives.

Qualifications

Candidates must have a completed PhD and a research experience in image processing and analysis, pattern recognition. Good knowledge and experience in deep learning are also recommended.

General Qualifications

- Good programming skills mastering at least one programming language like Python, Java, C/C++
- Good teamwork skills
- Good writing skills and proficiency in written and spoken English or French

Applications

Candidates should send a CV and a motivation letter to [jcburie \[at\] univ-lr.fr](mailto:jcburie@univ-lr.fr).

[Edit \(https://iapr-tc10.univ-lr.fr/wp-admin/post.php?post=1463&action=edit\)](https://iapr-tc10.univ-lr.fr/wp-admin/post.php?post=1463&action=edit)

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