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**Call for Contributions**

Please contribute relevant news to TC10 groups.

Please send any relevant event, notice or link to the newsletter editor : [Motoi Iwata](mailto:Motoi.Iwata@iapr.org).

Message from the editor



Welcome to the November edition of the TC10 newsletter.

In this issue, we include information concerning the ICDAR 2017 awards, the IAPR/ICDAR awards, call for papers and finally, you can also find the job offer at Rouen.

Follow us at twitter: [https://twitter.com/IAPR\\_TC10](https://twitter.com/IAPR_TC10).  
[Motoi Iwata](mailto:Motoi.Iwata@iapr.org), IAPR-TC10 Newsletter Editor.

ICDAR 2017 Awards

**Best Paper Award**

O11-1: "Geographic and Style Models for Historical Map Alignment and Toponym Recognition"

Jerod Weinman

Presented on Wednesday, November 15

**Best Student Award**

O3-2: "Are Multidimensional Recurrent Layers Really Necessary for Handwritten Text Recognition?"

Joan Puigcerver

Presented on Monday, November 13

**Best Poster Award**

P1-38: "Benchmarking Keypoint Filtering Approaches for Document Image Matching"

Emilien Royer, Joseph Chazalon, Marçal Rusiñol, and Frédéric Bouchara

Presented on Monday, November 13

*Best Paper / Best Student Paper Award Committee*

- Marcus Liwicki, Chair
- Apostolos Antonacopoulos
- Gernot Fink
- Seiichi Uchida

*Best Poster Award Committee*

- Michael Blumenstein, Chair
- Alicia Fornes
- Ranga Setlur
- Faisal Shafait
- Rafael Lins

## IAPR/ICDAR Awards

We would like to congratulate our IAPR/ICDAR 2017 Award winners:

[http://u-pat.org/ICDAR2017/awards\\_IAPR.php](http://u-pat.org/ICDAR2017/awards_IAPR.php)

The IAPR/ICDAR Outstanding Achievements Award is presented to Prof. Rangachar Kasturi for seminal research in document image analysis and graphics recognition shaping the evolution of the document image analysis field, and for outstanding leadership to both the ICDAR and the wider international pattern recognition community.

The IAPR/ICDAR Young Investigator Award is presented to Dr. Alicia Fornés for outstanding contributions in the recognition of handwriting, text and graphics, with high impact to the field of Digital Humanities, and her service to the IAPR Technical Committee on Graphics Recognition.

We would also like to congratulate the students who received the ICDAR 2017 Student Travel Award:

[http://u-pat.org/ICDAR2017/attend\\_financial\\_assistance.php](http://u-pat.org/ICDAR2017/attend_financial_assistance.php).

## IJDAR Discount for IAPR Members (repost)

IAPR is pleased to announce a partnership agreement with Springer, the publisher of IJDAR, the International Journal on Document Analysis and Recognition. This new agreement will allow IAPR members to receive a subscription to the electronic version of IJDAR at a discount of nearly 50%. For additional details, see the links below:

- <http://www.iapr.org/publications/intjournal.php>
- <http://www.iapr.org/publications/intjrnlsub.php>

KOICHI KISE, DANIEL LOPRESTI AND SIMONE MARINAI, IJDAR EDITORS-IN-CHIEF  
([kise@cs.osakafu-u.ac.jp](mailto:kise@cs.osakafu-u.ac.jp), [lopresti@cse.lehigh.edu](mailto:lopresti@cse.lehigh.edu), [simone.marinai@unifi.it](mailto:simone.marinai@unifi.it)).

## Engineer / Postdoctoral Position, Rouen, France (repost)

Engineer / PostDoc position in Deep Learning for Handwriting Recognition  
(LITIS Laboratory- Campus du Madrillet - Normandie Rouen University, France)

### Context

As for many applications of computer vision, significant progress have been achieved these last years in the field of Handwriting Recognition, thanks to Deep Learning and Recurrent Neural Networks. Research at LITIS are conducted in this direction [1,2,3]. However, despite these progress, a reading system architecture is still composed of multiple components organized sequentially (a typical architecture includes: layout analysis of the document image, handwriting recognition, language processing). Deep learning approaches are now the state of art for any of these tasks, but their integration into a single system has not been explored much [4,5,6].

The Machine Learning team at LITIS is involved in a common laboratory with one industrial partner to develop new technologies for handwriting recognition using Mobile capturing devices like smart phones. The industrial partner has launched a capturing application with document workflow management facilities. LITIS will contribute to develop handwriting recognition technologies for field reading (titles, dates, etc...), indexation, and classification of documents by their textual content.

### Missions

The engineer or postdoc recruited will be in charge of developing a Machine Learning based processing platform so as to implement a full recognition chain dedicated to handwritten documents recognition (image processing, recognition, language processing). He (she) will contribute to the progress of the technology, considering the expected application needs and performance. The successful applicant should have a strong record in statistical machine learning, and have experience in one popular platform and programming language in the field, so as to design, develop and make the prototype evolve. He (she) will also be involved in the specification process of data collection scenario and the design of learning and test datasets for various target languages and various use case of the application at end (Information Retrieval, Personalization, etc...).

## Skills

Computer Engineer, with record on Machine Learning or PhD in machine learning, demonstrates ability to work in a team, curious and rigorous spirit esprit.

Technical skills : C/C++, Anaconda/Python, Tensor Flow /CNTK, Keras, and other librairies (Numpy, OpenCV, Kaldi ..) required for Deep Learning.

**Contact :** [Thierry.Paquet@univ-rouen.fr](mailto:Thierry.Paquet@univ-rouen.fr)

**Place :** LITIS Laboratory– Campus du Madrillet – Normandie Rouen University

**Duration:** renewable 18 month contract, starting september 2017

## PhD Position, Uppsala, Sweden (repost)

Up to two researchers with focus on large-scale image analysis and machine learning for digital palaeography (the Centre for Image Analysis, Uppsala Universitet, Sweden)

<http://www.uu.se/en/about-uu/join-us/details/?positionId=160491>

<http://www.uu.se/en/about-uu/join-us/details/?positionId=160483>

The group at the Centre for Image Analysis active in the field on Hand-written Text Recognition are now recruiting two more team members (for PostDoc and Researcher positions).

Uppsala University is an international research university focused on the development of science and education. Our most important assets are all the individuals who with their curiosity and their dedication make Uppsala University one of Sweden's most exciting work places. Uppsala University has 40,000 students, 7,000 employees and a turnover of SEK 6,5 billion.

These positions are part of interdisciplinary research collaboration between the Centre for Image Analysis at the Division of Visual Information and Interaction, Dept. of Information Technology, Uppsala University and the University of Gävle. The collaboration focuses on digital image processing, computerised image analysis and machine learning, with applications in the field of digital palaeography.

The Department of Information Technology has approximately 280 employees and provides education and research of the highest international quality. Roughly 4,000 students study here each year, and about 30 research teams are based here. The strong focus on research impacts and provides an excellent foundation for undergraduate education at the department. The department is building on activities in IT that have been carried on at Uppsala University since the mid 1960s. The department hosts UPPMAX (Uppsala Multidisciplinary Center for Advanced Computational Science), Uppsala University's resource of high-performance computers, large-scale storage and know-how of high-performance computing. UPPMAX is one of the six centers in the national metacenter Swedish National Infrastructure for Computing (SNIC). For more information, see [www.it.uu.se](http://www.it.uu.se) and [www.uppmax.uu.se](http://www.uppmax.uu.se).

The Centre for Image Analysis has a long tradition of theoretical and applied research and graduate education in computerized image analysis and scientific visualization. The focus is on image processing as such, but also on developing better methods, algorithms and systems for applications within primarily life sciences, medicine, and digital humanities. For more information, see [www.cb.uu.se](http://www.cb.uu.se)

### Research Project

These positions are a part of a project within the field of digital palaeography, i.e., computational methods for analysis and quantification of handwritten text. The extracted data can be used for scribal attribution (writer identification), dating and other similar purposes. The material consists primarily of mediaeval charters, produced in Sweden. There are more than 10.000 images of such charters available. The aim is to develop new computerized methods within image analysis and machine learning, to analyze these images, individually and collectively, in ways that a human specialist cannot achieve.

### Assignments

The position consists of research and a limited amount of teaching (up to 5%) and institutional duties (up to 5%). The research is to be carried out within the field of digital palaeography on the mediaeval Swedish handwritten material. Primarily the charters will be in focus, but work on other mediaeval manuscripts can also be relevant. The employee is also expected to participate in the activities at the department and work for good relations with the collaborators of the project.

### Appointment period

The position can be held for a maximum of two years, with starting date as soon as possible.

### Qualifications

To qualify for an employment as a researcher the applicants must hold a doctor's degree in image analysis, computer vision or machine learning.

### Assessment Criteria/Ranking

The ranking of eligible applicants will be based primarily on research expertise, and especially experience from image analysis and machine learning will be taken into account. Experience in digital palaeography and handwritten text recognition is of particular

importance.

### Additional qualifications

Studies in the humanities and/or linguistics, and work within the field of digital humanities is considered as an additional qualification.

In the overall assessment of the applicant's qualifications, parental leave, part-time work relating to care of children, or the like are to be counted as work experience.

### How to apply

The applicant should include a letter describing her- or himself and motivating why applying for the position, relevant qualifications, and research interests. State in the application which of the two positions (or both) the application concerns. The application should also include a CV, copies of relevant certificates, degrees and grades, relevant publications and other documents (e.g., letter(s) of recommendation and a list of reference persons). We would also like to know the earliest possible date for starting.

Uppsala University strives to be an inclusive workplace that promotes equal opportunities and attracts qualified candidates who can contribute to the University's excellence and diversity. We welcome applications from all sections of the community and from people of all backgrounds.

**Pay:** Individual salary

**Starting:** As soon as possible.

**Type of employment:** Temporary position.

**Working hours:** 100 %

For further information about the position, please, contact

Dr. Anders Brun, [anders.brun@it.uu.se](mailto:anders.brun@it.uu.se) or Prof. Lasse Mårtensson, [lasse.martensson@hig.se](mailto:lasse.martensson@hig.se).

You are welcome to submit your application no later than 2017-10-31, UFV-PA 2017/2706

Are you considering moving to Sweden to work at Uppsala University? If so, you will find much information about working and living in Sweden at [www.uu.se/joinus](http://www.uu.se/joinus). You are also welcome to contact the International Faculty and Staff Services at [ifss@uadm.uu.se](mailto:ifss@uadm.uu.se).

We decline offers of recruitment and advertising help. We only accept the application the way described in the advertisement.

Placement: Department of Information Technology

Type of employment: Full time , Permanent position

Pay: Fixed pay

Number of positions: 2

Working hours: 100%

Town: Uppsala

County: Uppsala län

Country: Sweden

Union representative: Ellena Papaioannou, Seko 018-471 3315

Per Sundman, Saco-rådet 018-471 1485

Suzanne Borén Andersson, TCO/ST 018-471 6251

Number of reference: UFV-PA 2017/2706

Last application date: 2017-10-31

## Call for papers

Event/Location/Web	Event Date	Deadline (paper submission)
DAS 2018, Vienna, Austria Int. Workshop on Document Analysis Systems <a href="https://das2018.caa.tuwien.ac.at/en/">https://das2018.caa.tuwien.ac.at/en/</a>	April 24-27, 2018	full paper :November 10, 2017
ICPRAI 2018, Montréal, Canada Int. Conf. on Pattern Recognition and Artificial Intelligence <a href="http://users.encs.concordia.ca/~icprai18/">http://users.encs.concordia.ca/~icprai18/</a>	May 14-17, 2018	-- passed --
CVPR 2018, Salt Lake City, USA Computer vision and pattern recognition <a href="http://cvpr2018.thecvf.com/">http://cvpr2018.thecvf.com/</a>	June 18-22, 2018	--passed--

ICFHR 2018, Niagara Falls, USA Int. Conf. on Frontiers in Handwriting Recognition <a href="http://icfhr2018.org/">http://icfhr2018.org/</a>	August 5-8, 2018	March 9, 2018
ICPR 2018, Beijing, China Int. Conf. on Pattern Recognition <a href="http://www.icpr2018.org/">http://www.icpr2018.org/</a>	August 20-24, 2018	January 5, 2018

## Call for datasets

We would like to remind you that the TC10 and TC11 Web sites always welcome contributions of new datasets or other resources related to the community. We would like to encourage all the TC10 and TC11 members to submit such material to the TC10 and TC11 for archiving. The availability of datasets, ground truth and performance evaluation tools online is not only good practice, but also a requirement for a field to progress.

We would like make a special request to the organizers of recent and future competitions. Independently of whether you have the competition datasets and evaluation tools available through other Web sites, please consider archiving them with TC10 / TC11 as well. Web sites often go off-line and useful resources are frequently lost forever.

Please check the TC10 site on information about how to submit datasets for archiving.

<http://iapr-tc10.univ-lr.fr/index.php/datasets-and-software>

Marcus Liwicki and Syed Saqib Bukhari  
TC-11 and TC-10 Dataset Curators

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