TC10

Technical Committee on Graphics Recognition

Newsletter	N°121

November 2016

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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 : Alicia Fornes.

Message from the editor

Welcome to the November edition of TC10 newsletter. You will find the call for participation to the First TC10/TC11 Summer School on Document Analysis, the call for papers, the call for Proposals for Hosting DAS 2018, and the call for workshops, competitions and tutorials at ICDAR 2017.

In addition to the IJDAR articles alert, this edition also includes information concerning the DIVA-HisDB dataset and the open positions at the Computer Vision Center (Spain).

As you may know, two bids for hosting ICFHR 2020 were presented at ICFHR 2016. The ICFHR attendees voted among the two proposals. We are pleased to announce that the next ICFHR 2020 will be held in Dortmund, Germany.

As usual, there will be a joint TC10/11 meeting at ICPR. It will be next December 7 (Wednesday) 16:00-17:10.

Follow us at twitter:
https://twitter.com/IAPR_TC10.
Alicia Fornés, IAPR-TC10 Newsletter Editor.

TC10/11 Joint Meeting at ICPR

The traditional TC10/11 meeting will be held at ICPR on December 7 (Wednesday) 16:00-17:10 (exact location TBA) to discuss the future of our research community, scopes of common activities, research initiatives, conferences, etc. Please join us to discuss TC activities and future directions.

Looking forward to seeing you at ICPR 2016.

TC10 and TC11 chairs

First TC10/TC11 Summer School on Document Analysis

CALL FOR PARTICIPATION
First TC10/TC11 Summer School on Document Analysis: Document Informatics
(Endorsed by TC10 and TC11)
Dates: January 23-28, 2017
Location: Jaipur, India
Organised by: IIT Delhi & IUPRAI
http://cvit.iiit.ac.in/SSDA/

SCOPE
The school will provide an in-depth and objective exposure to researchers of the emerging area of Understanding large scale document collections and highlight open problems in this area. With deluge of documents (in a variety of forms - images, web-pages, etc.) on the web, individual and/or collaborative information foraging from document collections have become a challenging task. Researchers are developing tools not only to understand structure of the

documents but also to facilitate comprehensive interpretation of the content, may be embedded in more than one document in the form of text, table and/or graphics. In this summer school we shall address different aspects of this problem of discovering actionable insight in large document collections through tutorial level talks and research overview presentations. The school will focus on following core areas:

- features, representation and indexing for large document collections
- content representation and manipulation
- Information and document retrieval
- machine learning and analytics for large document repositories

The school will be conducted by world-renowned and experienced researchers. It will have (i) Tutorial talks; (ii) Focused research seminars; (iii) Poster session presenting research of the participants; (iv) Hands-on Exercises; (v) Industrial Presentations.

PROGRAM CHAIRS
- Venu Govindaraju, University of Buffalo, USA
- Santanu Chaudhury, IIT Delhi, India
- C.V. Jawahar, IIIT Hyderabad, India

GREC 2015 LNCS Post-proceedings (repost)

Eleventh IAPR International Workshop on Graphics Recognition (GREC)
http://grec2015.loria.fr/
LNCS Postproceedings

The papers that have been accepted for publication in the LNCS Post-proceedings will be published as:
 - Lecture Notes in Computer Science, volume 9657.
 - Title: Graphics Recognition. Current Trends and Challenges.
        11th International Workshop, GREC 2015, Nancy, France, August 22-23, 2015, Revised Selected Papers.

The submission process to Springer for the forthcoming LNCS volume will be announced soon.

ACCEPTED PAPERS
- Improving Fuzzy Multilevel Graph Embedding with Topological Node Features - an application to Graphics Recognition
- Towards the Alignment of Handwritten Music Scores
- Circle Detection Performance Evaluation Revisited
- Text-independent speech balloon segmentation for comics and manga
- Camera-based document image retrieval system for heterogeneous-content complex linguistic maps
- Recognising Electronic Circuits to Enrich Web Documents for Electronic Simulation
- Migrating the Classical Pen-and-Paper based Conceptual Sketching of Architecture Plans Towards Computer Tools - Prototype Design and Evaluation
- Ontology-based Understanding of Architectural Drawings
- Statistical Performance Metrics for Use with Imprecise Ground-Truth
- The creation of digital, synthetic, ground-truth images from historic cosmic ray data recordings

IAPR Research Scholarships

IAPR Research Scholarships, awarded by the IAPR through its Education Committee (IAPR-EC), seek to make possible mobility across institutions and international boundaries for Early Career Researchers working in fields within the scope of the IAPR's interests. Through this program, the IAPR sees an opportunity to make a significant contribution to the development of Early Career Researchers as well as the wider Pattern Recognition community.

The candidate must be a full-time researcher: either a PhD research student who has completed at least one year's study at this level or someone already employed as a full-time researcher who has been active in the field for fewer than eight years and is working at a level equivalent to a post-doctoral researcher. The visits will be no longer than 12 months in duration. The scholarship will cover round trip travel to the chosen research institution and basic living expenses.

For further details on the application requirements, please visit http://www.iapr.org/docs/IAPR-EC-RS-Call-2016.pdf

ICDAR 2017: Call for Workshops, Tutorials and Competitions

14th IAPR International Conference on Document Analysis and Recognition (ICDAR 2017)
Kyoto, Japan
November 10-15, 2017
http://www.iapr.org/icdar2017/

The ICDAR 2017 Organizing Committee invites proposals for workshops, tutorials and competitions.
More information on on the ICDAR2017 website:
- Call for ICDAR2017 Workshops
  http://www.iapr.org/icdar2017/call_for_workshops.html

- Call for ICDAR2017 Tutorials

- Call for ICDAR2017 Competitions

Important Dates
- Proposal Due: December 15, 2016
- Acceptance Notification: January 15, 2017

ICDAR 2017: Call for Papers

14th IAPR International Conference on Document Analysis and Recognition (ICDAR 2017)
Kyoto, Japan
November 10-15, 2017
http://www.iapr.org/icdar2017/

The 14th IAPR International Conference on Document Analysis and Recognition (ICDAR 2017) is the premier
international forum for researchers and practitioners in the document analysis community.
The accepted papers will be published by IEEE Computer Society's Conference Publishing Services (CPS) and included
in IEEE Xplore Digital Library.

Topics of Interest include, but not limited to:
  - Character Recognition
  - Handwriting Recognition
  - Graphics Recognition
  - Document Image Analysis
  - Document Understanding
  - Document Analysis Systems
  - Document Processing
  - Camera-based Document Processing
  - Document Databases and Digital Libraries
  - Mining Document Image Collections
  - Multimedia Documents and Internet Documents
  - Document Forensics
  - Historical Documents
  - Segmentation and Restoration
  - Sketching Interfaces
  - Performance Evaluation
  - Camera and Scene Text Understanding
  - Machine Learning for Document Analysis
  - Human-Document Interaction
  - Language and Script in Document Understanding
  - Novel Applications

Submission and Review
ICDAR 2017 will follow a double blind review process. Authors should not include their names and affiliations anywhere
in the manuscript. Authors should also ensure that their identity is not revealed indirectly by citing their previous work
in the third person, and omitting including acknowledgements until the camera-ready version.

Paper format and length
Papers accepted for the conference will be allocated 6 pages in the proceedings, with the option of purchasing up to 2
extra pages for JPY 10,000 per page. This will have to be paid after paper acceptance and at the time of registration.
The length of the submitted manuscript should match that intended for final publication. Therefore, if you are unwilling
or unable to pay the extra charge you should limit yourself to 6 pages. Otherwise the page limit is 8 pages.

Organization
- *Honorary Chairs*
   Prof. Kazuhiko Yamamoto (Gifu University, Japan)
   Prof. Masaki Nakagawa
    (Tokyo University of Agriculture and Technology, Japan)
- *General Chair*
   Koichi Kise (Osaka Prefecture University, Japan)
- *Executive Co-Chairs*
   Shinichiro Omachi (Tohoku University, Japan)
   Seiichi Uchida (Kyushu University, Japan
   Masakazu Iwamura (Osaka Prefecture University, Japan)
- *Program Committee Chairs*
   C.V. Jawahar (IIIT Hyderabad, India)
   Daniel Lopresti (Lehigh University, USA)
   Dimothenis Karatzas (CVC, Spain)
- *Workshop Chairs*
   Michael Blumenstein (Griffith University, Australia)
   Umapada Pal (Indian Statistical Institute, India)
- *Competition Chairs*
   Jean-Marc Ogier (University of La Rochelle, France)
   Marcus Liwicki (DFKI, Germany & University of Fribourg, Switzerland)
- *Tutorial Chairs*
   Simone Marinai (University of Florence, Italy)
   Josep Llados (CVC, Spain)
- *Publication Chairs*
   Wataru Ohyama (Mie University, Japan)
   Kengo Terasawa (Future University Hakodate, Japan)
- *Publicity Chairs*
   David Doermann (DARPA, USA)

Cheng-Lin Liu (Chinese Academy of Sciences, China)
Gernot Fink (TU Dortmund University , Germany)
Tomo Miyazaki (Tohoku University, Japan)
- *Sponsorship Chairs*
Andreas Dengel (DFKI, Germany)
Hisashi Ikeda (Hitachi, Japan)
- *Finance Chair*
Masakazu Iwamura (Osaka Prefecture University, Japan)

Important Dates
- Submission Deadline: March 15, 2017
- Acceptance Notification: July 1, 2017
- Camera Ready Papers Due: August 15, 2017

Inquiry
icdar2017-inquiry@m.cs.osakafu-u.ac.jp

IJDAR Alert

Volume 19, Issue 4
http://link.springer.com/journal/10032/19/4/page/1

- Document segmentation and classification into musical scores and text
  Fabrizio Pedersoli, George Tzanetakis

- A system for recognizing online handwritten mathematical expressions by using improved structural analysis
  Anh Duc Le, Masaki Nakagawa

- Conservative preprocessing of document images
  Jin Chen, Daniel Lopresti, George Nagy

- A fast hierarchical method for multi-script and arbitrary oriented scene text extraction
  Lluis Gomez, Dimosthenis Karatzas

- Consensus-based clustering for document image segmentation
  Soumyadeep Dey, Jayanta Mukherjee, Shamik Sural

- Text/shape classifier for mobile applications with handwriting input
  Illya Degtyarenko, Olga Radyvonenko, Kostiantyn Bokhan, Viacheslav Khomenko

DIVA-HisDB dataset

A new dataset has been added to the tc11 dataset site:
DIVA-HisDB Historical Document Image Database (DIVA-HisDB).

DIVA-HisDB is a collection of three medieval manuscripts that have been chosen regarding the complexity of their layout, together with partners from e-codices (http://www.e-codices.unifr.ch/) and the Humanities faculty in the University of Fribourg:

http://tc11.cvc.uab.es/datasets/DIVA-HisDB_1

Call for Hosting Proposals for DAS 2018

Following the successful organisation of the 12th IAPR International Workshop on Document Analysis Systems in Santorini (Greece) last April, by our colleagues Apostolos Antonacopoulos and Basilis Gatos, we are now soliciting proposals for organising and hosting DAS 2018.

The DAS workshop has become one of the signature events for TC-11. DAS 2018 will build on the tradition established by past DAS workshops held in Kaiserslautern, Germany (1994), Malvern, PA (1996), Nagano, Japan (1998), Rio de Janeiro, Brazil (2000), Princeton, NJ (2002), Florence, Italy (2004), Nelson, New Zealand (2006), Nara, Japan (2008), Boston, MA (2010), and Gold Coast, Australia (2012), Tours-Loire Valley, France (2014), and Santorini, Greece (2016).

Individuals and groups who are interested in Document Analysis Systems are invited to submit proposals for organizing and hosting DAS 2018. The event should preferably take place in late summer/fall, but is not limited to this period.

The submission deadline is December 31st, 2016. Proposals should be submitted to the TC11 chair (Koichi Kise) and vice-chair (Dimosthenis Karatzas).

If you already know whether you are interested in preparing a proposal, please send us your expression of interest. Note that an expression of interest is not a commitment to make a formal proposal nor an official bid. If you need further information concerning DAS, please feel free to contact us.

The final selection among competing proposals will be made short after the deadline by the DAS Steering Committee, which is composed of all those who have themselves organized or contributed substantially to past DAS workshops.

Prof Koichi Kise, TC11 Chair (kise@cs.osakafu-u.ac.jp)

Dr Dimosthenis Karatzas, TC11 Vice-chair (dimos@cvc.uab.es)

Job offer: Marie-Curie Fellowship at the Computer Vision Center

Call for Applications: Marie Curie Fellowships in Computer Vision - Reading Systems (Barcelona, Spain)

The Computer Vision Centre is looking for two researchers with excellent academic track record to work in the areas of reading systems.

The Marie Curie fellows will become members of the Computer Vision Centre, in Barcelona, Spain, a research institute comprising more than 100 researchers and support staff, dedicated to computer vision research and knowledge transfer.

The fellows will join a vibrant team of researchers pertaining to Consolidated Research Groups (SGRs) within the Catalan research system, with background on machine learning, reading systems, scene classification and object recognition.

The P-SPHERE project is coordinated by the Universitat Autonoma de Barcelona with the participation of the Computer Vision Centre. It aims to foster excellence in the training, mobility and professional improvement of researchers. The fellowship is co-financed by the P-SPHERE project, a Marie Sklodowska-Curie COFUND action financed through the H2020 framework.

Positions
The two fellowships advertised here are linked to the Document Analysis Group (DAG). The successful candidates will work on reading systems, capable to detect and recognise textual information in either:
1. Images in challenging conditions such as urban scenery, born-digital images, videos and images recorded with wearable devices.
2. Images of historical documents stored in archives and libraries.

The Marie Curie fellows are expected to align their research to the research priorities of the host group and develop their research plan in one of the following areas: Scene text localisation, object proposals for text, script identification, word spotting, handwriting recognition, language models, deep network architectures for robust reading, camera-based document image analysis, human-document interaction, information extraction, context-aware recognition (syntactic and semantic recognition), indexation in large scale document collections, among others.

Candidate´s profile
A PhD in computer science or a related field is required. The applicants must have experience in pattern recognition and machine learning techniques, and be able to demonstrate strong analytical and programming skills.

Prior research experience in computer vision, and publications in top computer vision journals and conferences will be highly valued.

The applicants are expected to be fluent in both oral and written communication in English. They should work well in a team, while demonstrating initiative and independence.

Candidates should have been awarded their PhD before the call deadline and must not have resided or carried out their main activity (work, studies, etc) in Spain for more than twelve months in the three years immediately prior to the call deadline.

The official application period will open during September 2016.

DATE
- Deadline: December 9, 2016.

Research contact
- Dimosthenis Karatzas <dimos@cvc.uab.es>
- Josep Lladós <josep@cvc.uab.es>
- Alicia Fornes <afornes@cvc.uab.es>

More information:
http://www.uab.cat/psphere/   (updated information available from September onwards)
http://www.cvc.uab.es

Job offer: PhD Studentship at the Computer Vision Center

Open PhD Studentship at the Computer Vision Center (Barcelona, Spain)

The Computer Vision Center at the Universitat Autonoma de Barcelona (UAB) offers three PhD student positions in the field of historical document image analysis. Candidates must prove that they hold university-awarded Master's degree or equivalent at the time of signing the contract.
Candidates cannot already hold a PhD degree.

Dates
- The call will open in september (tentative).
- (probable) Start date: October-December 2016.

Research contact
- Josep Lladós <josep@cvc.uab.es>
- Alicia Fornes <afornes@cvc.uab.es>

Call for papers

Event/Location/Web	Event Date	Deadline (paper submission)
ICPRAM 2017, Porto, Portugal Int. Conf. on Pattern Recognition Applications and Methods http://www.icpram.org/	February 18-22, 2016	November 23, 2016 (position papers)
IBPRIA, Faro, Portugal Iberian Conf. on Pattern Recognition and Image Analysis http://www.ibpria.org/2017/	June 21-23, 2017	November 26, 2016
ASAR 2017, Nancy, France Int. Workshop on Arabic Script Analysis and Recognition http://asar.ieee.tn/	April 3-5, 2017	December 1, 2016
IGS 2017, Gaeta, Italy Int. Graphonomics Society Conference http://www.graphonomics.org/igs2017/	June 18-21, 2017	January 15, 2017
ICDAR 2017, Kyoto, Japan Int. Conf. on Document Analysis and Recognition http://www.iapr.org/icdar2017	November 10-15, 2017	November 1, 2016 (workshops and competitions) December 15, 2016 (tutorials) March 15, 2017 (paper submission)
BMVC 2017, London, UK British Machine Vision Conference http://bmvc2017.london/	Sept 4-7, 2017	May 2, 2017
ICPR 2016, Cancun, Mexico Int. Conf. on Pattern Recognition http://www.icpr2016.org/site/	December 4-8, 2016	- passed -
CVPR 2017, Honolulu, Hawaii, USA Indian Conference on Computer Vision and Pattern Recognition http://cvpr2017.thecvf.com/	July 20-27, 2017	- passed -

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