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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 March edition of TC10 newsletter.

This edition announces the First TC-10/TC-11 Summer School on Document Analysis, focussed on Large Scale Document Understanding, that will be held in New Delhi, India in December 2016.

In this newsletter you will also find information concerning the next call for papers, the call for participation at ICFHR competitions and the IJDAR articles alert.

Follow us at twitter:

[https://twitter.com/IAPR\\_TC10](https://twitter.com/IAPR_TC10).

[Alicia Fornés](#), IAPR-TC10 Newsletter Editor.

First TC10/TC11 Summer School on Document Analysis

CALL FOR PARTICIPATION

**First TC10/TC11 Summer School on Document Analysis:**

**Large Scale Document Understanding**

*(Endorsed by TC10 and TC11)*

**Dates:** December 12-16, 2016.

**Location:** IIT Delhi, New Delhi, India

**Organised by:** IIT Delhi & IUPRAI

**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.

**LOCATION**

Location of the event will be the beautiful campus of IIT Delhi where the participants will have enough opportunity to interact with each other as well as renowned speakers during the sessions, food breaks, evening social events etc. IIT Delhi has a serene green campus of about 300 acres with all modern amenities.

## PARTICIPATION

The school is open to young researchers from across the world. Registration (400 Euro) will cover attendance, proceedings, dinners, coffee breaks and social events. Organisers will arrange for subsidized bed and breakfast accommodations at the rate of about 30 euro per head per night. Participants can apply with a short CV and one page write-up (10 pt.) on their proposed research presentation to Santanu Chaudhury <schaudhury@gmail.com> by 30th June, 2016.

## PROGRAM CHAIRS

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

## DAS 2016 : Document Analysis Systems

### 12th IAPR International Workshop on Document Analysis Systems (DAS 2016)

April 11-14, Santorini, Greece  
<http://www.primaresearch.org/das2016>

DAS 2016 is the 12th edition of the 100% participation single-track IAPR sponsored workshop focusing on system-level issues and approaches in document analysis and recognition. The workshop comprises invited speaker presentations, oral, poster, tutorial and demo sessions as well as working group discussions.

DAS 2016 will be organized on the island of Santorini, Greece. Santorini was created from a volcanic eruption that left it with volcanic cliffs overlooking a black and red coast, dazzling against the turquoise Mediterranean.

List of Regular Accepted papers (orals and posters) is available here:  
<http://www.primaresearch.org/das2016/acceptedPapers>

Instructions for oral and poster presentations:  
<http://www.primaresearch.org/das2016/presentationInstructions>

Please note that for poster presentations, a 2-slide (Powerpoint) announcement must be prepared and uploaded to EasyChair by March 31st  
(full details can be found on the presentation instructions page on the DAS website).

If you have any queries please let us know at [DAS2016@primaresearch.org](mailto:DAS2016@primaresearch.org)

The DAS 2016 Program Committee Chairs

## ICPR 2016: Call for papers

### 23rd International Conference on Pattern Recognition (ICPR 2016)

December 4-8, 2016  
Cancun, Mexico  
[www.icpr2016.org](http://www.icpr2016.org)

Welcome to the 23rd International Conference on Pattern Recognition in Cancun, Mexico, December 2016, hosted by the Mexican Association for Computer Vision, Neurocomputing and Robotics (MACVNR). ICPR will be an international forum for discussions on recent advances in the fields of Pattern Recognition, Machine Learning and Computer Vision, and on applications of these technologies in various fields.

The Scientific Program is organized in five tracks, addressing several Pattern Recognition topics.

#### TRACKS

- Track 1: Pattern Recognition and Machine Learning.
- Track 2: Computer Vision and Robot Vision.
- Track 3: Image, Speech, Signal and Video Processing.
- Track 4: Document Analysis, Biometrics and Pattern Recognition Applications.
- Track 5: Biomedical Image Analysis and Applications.

#### IMPORTANT DATES

- Deadline for paper submission: April 4, 2016
- Deadline for contest proposal: May 31, 2016
- Deadline for workshop proposal: May 31, 2016

#### CONFERENCE SECRETARIAT

[contact\\_info@icpr2016.org](mailto:contact_info@icpr2016.org)

## IDIPS 2016: Call for participation

### International Document Information Processing School (IDIPS)

Samos, Greece, 4-8 July, 2016  
<http://samosweb.aegean.gr/idips2016/>

We are pleased to announce the 4th annual IDIPS Summer school is now taking applications for summer 2016. This year IDIPS will take place on the island of Samos, Greece, 4-8 July, 2016.

IDIPS, the International Document Information Processing School, this year is expanding to include National Language Processing (NLP). Document Analysis Systems (DAS) nowadays use more NLP in order to improve their precision. The two fields share common problems and even techniques. It is our intention to prepare young researchers of both fields

to combine knowledge from NLP and DAS in order to solve modern problems. IDIPS will include lectures of basic and advanced knowledge from the fields of DAS and NLP, as well as from Machine Learning, very useful for both fields.

The cost is 625 Euros (Early Registration) and includes lodging. Registration forms are available at: <http://samosweb.aegean.gr/idips2016/>

The due date for early registration is 30 April 2016. We look forward to seeing you or your students there.

#### **ORGANIZING COMMITTEE**

- Elisa H. Barney Smith, Boise State University, USA
- Walter Daelemans, University of Antwerp, Belgium
- Daniel P. Lopresti, Lehigh University, USA
- Ergina Kavaliariotou, University of the Aegean, Greece
- Jean-Marc Ogier, Université de La Rochelle, France
- Umapada Pal, Indian Statistical Institute, India
- Athanassios Skodras, University of Patras, Greece
- Efsthathios Stammatatos, University of the Aegean, Greece
- Seiichi Uchida, Kyushu University, Japan
- Elisa Barney Smith

## ImageCLEF 2016 Handwritten Scanned Document Retrieval Task

### **Handwritten Scanned Document Retrieval Challenge @ ImageCLEF 2016**

#### **Call for Participation**

<http://imageclef.org/2016/handwritten>

We cordially invite you to participate in a new evaluation campaign aimed at the development of systems for textual-query retrieval from historical handwritten collections. The evaluation will be characterized by the following key challenges:

- Multi-word queries.
- Finding broken words due to hyphenation.
- Queries with words not seen in the training data.
- Queries with zero relevant results.
- Results in the transitions between pages.
- Proximity searching.

The evaluation tries to allow easy participation from different research communities, with the aim of having synergies and providing different ideas and solutions to the problems being addressed. In particular, we hope to have participation at least from groups working on: handwritten text recognition, image-based keyword spotting and text retrieval. The primary training/development information will consist in the original page images and transcripts. This can be directly used by researchers working on keyword spotting. Moreover, word bounding boxes will be provided for the convenience of groups that work on query-by-example keyword spotting. In addition to the original page images and transcripts, plain text n-best recognition lists will be provided, to allow easy participation of researchers that normally work with text only.

The participants will have a chance to submit a paper describing their systems, which will be peer reviewed and if accepted, published in the CEUR-WS proceedings. Furthermore, the groups of the best performing systems will be invited to give an oral presentation at CLEF 2016 and others will be given the option of presenting a poster. Attendance to CLEF is not mandatory (though recommended) for participating or the papers being published.

This challenge is being organized as part of ImageCLEF, a lab of CLEF 2016 (<http://clef2016.clef-initiative.eu>).

Any questions or comments you may have, feel free to contact us.

For more details on the evaluation please visit <http://imageclef.org/2016/handwritten>

#### **Schedule**

- 15.11.2015: registration opens (until 22.04.2016)
- 16.12.2015: release of training/development data
- 15.03.2016: release of test data
- 01.05.2016: deadline for submission of runs by the participants
- 15.05.2016: release of processed results by the task organizers
- 25.05.2016: deadline for submission of working notes papers
- 17.06.2016: notification of acceptance of the working notes papers
- 01.07.2016: camera ready working notes papers
- 05.-08.09.2016: CLEF 2016, Évora, Portugal

#### **Organizing Committee**

Universitat Politècnica de València, Spain

- Joan Puigcerver <[joapuipe@prhl.upv.es](mailto:joapuipe@prhl.upv.es)>
- Alejandro H. Toselli <[ahector@prhl.upv.es](mailto:ahector@prhl.upv.es)>
- Joan Andreu Sánchez <[jandreu@prhl.upv.es](mailto:jandreu@prhl.upv.es)>
- Enrique Vidal <[evidal@prhl.upv.es](mailto:evidal@prhl.upv.es)>

## ICFHR 2016 competitions: Call for participation

### International Conference on Frontiers in Handwriting Recognition

Shenzhen, China

October 23-26, 2016

<http://www.nibr.ia.ac.cn/icfhr2016/>

The 15th International Conference on Frontiers in Handwriting Recognition (ICFHR2016, <http://www.nibr.ia.ac.cn/icfhr2016/>) organizes competitions to evaluate the state of the art of handwritten document analysis and recognition in different scripts and media types.

Nine competitions are in organization. The competitions and URLs can be found in <http://www.nibr.ia.ac.cn/icfhr2016/competitions.htm> and are also listed below.

For how to participate in the competitions, please visit the URLs for details.

#### 1. ICFHR2016 Competition on the Classification of Medieval Handwritings in Latin Script

Organizers: Dominique Stutzmann, Véronique Eglin, Nicole Vincent, Florence Cloppet, Marlène Helias-Baron

URL: <http://onflamms.hypotheses.org/1388>

Contact: [dominique.stutzmann@irht.cnrs.fr](mailto:dominique.stutzmann@irht.cnrs.fr)

#### 2. ICFHR2016 Competition on Analysis of Handwritten Text in Images of Balinese Palm Leaf Manuscripts

Organizers: Jean-Christophe Burie, Jean-Marc Ogier, Mickael Coustaty, Made Windu Antara Kesiman, Setiawan Hadi, Erick Paulus, Kimheng Sok, Dona Vally, I Made Gede Sunarya

URL: [http://amadi.univ-lr.fr/ICFHR2016\\_Contest/](http://amadi.univ-lr.fr/ICFHR2016_Contest/)

Contact: [jean-christophe.burie@univ-lr.fr](mailto:jean-christophe.burie@univ-lr.fr)

#### 3. ICFHR2016 Competition on Arabic Online Text Recognition using Online-KHATT Database

Organizers: Mohammad Tanvir Parvez, Hamzah Luqman, Baligh Al-Helali, Sabri A. Mahmoud

URL: <http://onlinekhatt.ideas2serve.net/competition/>

Contact: [m.parvez@qu.edu.sa](mailto:m.parvez@qu.edu.sa)

#### 4. ICFHR2016 Competition on Multi-script Writer Demographics Classification Using "QUWI" Database

Organizers: Chawki Djeddi, Somaya Al-Maadeed, Abdeljalil Gattal, Imran Siddiqi, Abdellatif Ennaji, Haikal El Abed

URL: <http://mswdc2016.sciencesconf.org>

Contact: [djeddi\\_2008@yahoo.fr](mailto:djeddi_2008@yahoo.fr)

#### 5. ICFHR2016 Competition on Recognition of Handwritten Mathematical Expressions (CROHME2016)

Organizers: Harold Mouchère, Christian Viard-Gaudin, Richard Zanibbi, Utpal Garain

URL: <http://ivc.univ-nantes.fr/CROHME/>

Contact: [harold.mouchere@univ-nantes.fr](mailto:harold.mouchere@univ-nantes.fr)

#### 6. ICFHR2016 Handwritten Keyword Spotting Competition (H-KWS 2016)

Organizers: Basilis Gatos, Ioannis Pratikakis, Joan Puigcerver, Alejandro H. Toselli, Enrique Vidal, Konstantinos Zagoris

URL: <https://www.prhlt.upv.es/contests/icfhr2016-kws/index.html>

Contact: [ipratka@ee.duth.gr](mailto:ipratka@ee.duth.gr)

#### 7. ICFHR2016 Handwritten Document Image Binarization Competition (H-DIBCO 2016)

Organizers: Ioannis Pratikakis, Konstantinos Zagoris, Georgios Barlas, Basilis Gatos

URL: <http://vc.ee.duth.gr/h-dibco2016/>

Contact: [ipratka@ee.duth.gr](mailto:ipratka@ee.duth.gr)

#### 8. ICFHR2016 Competition on Local Attribute Detection for Improving Handwriting Recognition

Organizers: Shawn Reid, Michael Murdock, Jack Reese, Blaine Hamilton

URL: <http://collections.ancestry.com/ANDAR-AD-2016/Home>

Contact: [mmurdock@ancestry.com](mailto:mmurdock@ancestry.com)

#### 9. ICFHR2016 Competition on Handwritten Text Recognition on the READ Dataset

Organizers: Joan Andreu Sánchez, Verónica Romero, Alejandro H. Toselli, Enrique Vidal

URL: <http://transcriptorium.eu/~htrcontest/>

Contact: [jandreu@prhlt.upv.es](mailto:jandreu@prhlt.upv.es)

## IJDAR articles alert

### Volume 19, Issue 1

<http://link.springer.com/journal/10032/19/1/page/1>

- Improving discrimination ability of convolutional neural networks by hybrid learning

*In-Jung Kim, Changbeom Choi, Sang-Heon Lee*

- ASKME: adaptive sampling with knowledge-driven vectorization of mechanical engineering drawings

*Paramita De, Sekhar Mandal, Partha Bhowmick et al.*

- Structural feature-based evaluation method of binarization techniques for word retrieval in the degraded Arabic document images

*Toufik Sari, Abderrahmane Kefali et al.*

- A Nom historical document recognition system for digital archiving

- Textual image compression at low bit rates based on region-of-interest coding  
 Hadi Grailu

We encourage researchers to send the link to any relevant article related to graphics recognition to: [afomes@cvc.uab.es](mailto:afomes@cvc.uab.es)

## Summer Schools

Event/Location/Web	Event Date	Deadline (registration)
TC10/TC11 Summer School 2016, India First TC10/TC11 Summer School on Document Analysis	February 17-18, 2016	soon
IDIPS 2016, Samos Island, Greece International Document Information Processing School <a href="http://samosweb.aegean.gr/idips2016/">http://samosweb.aegean.gr/idips2016/</a>	July 4-8, 2016	April 30, 2016
VISUM 2016, Porto, Portugal VISION Understanding and Machine intelligence Summer School <a href="https://paginas.fe.up.pt/~visum/">https://paginas.fe.up.pt/~visum/</a>	July 7-14, 2016	March 21, 2016
ICVSS 2016, Sicily, Italy Int. Computer Vision Summer School <a href="http://www.dmi.unict.it/icvss">http://www.dmi.unict.it/icvss</a>	July 17-23, 2016	March 31, 2016
CVSS 2016, Swansea, UK BMVA Computer Vision Summer School <a href="http://cvss.swansea.ac.uk/cvss2016/">http://cvss.swansea.ac.uk/cvss2016/</a>	July 4-8, 2016	May 6, 2016

## Call for papers

Event/Location/Web	Event Date	Deadline (paper submission)
DAS 2016, Santorini, Greece Int. Workshop on Document Analysis Systems <a href="http://www.primaresearch.org/das2016">http://www.primaresearch.org/das2016</a>	April 11-14, 2016	---passed---
ICIAR 2016, Povo do Varzim, Portugal Int. Conf. on Image Analysis and Recognition <a href="https://www.aimiconf.org/iciar16/">https://www.aimiconf.org/iciar16/</a>	July 13-15, 2016	March 31, 2016 (short paper)
DocEng 2016, Vienna, Austria ACM Symposium on Document Engineering <a href="http://doceng2016.caa.tuwien.ac.at/">http://doceng2016.caa.tuwien.ac.at/</a>	Sept. 13-16, 2016	March 14, 2016
ECCV 2016, Amsterdam, The Netherlands European Conference on Computer Vision <a href="http://www.eccv2016.org/">http://www.eccv2016.org/</a>	October 11-14, 2016	March 14, 2016
GCPR 2016, Hannover, Germany German Conference on Pattern Recognition <a href="http://gcpr2016.de">http://gcpr2016.de</a>	September 12-15, 2016	April 1, 2016
ICPR 2016, Cancun, Mexico Int. Conf. on Pattern Recognition <a href="http://www.icpr2016.org/site/">http://www.icpr2016.org/site/</a>	December 4-8, 2016	April 4, 2016
ICFHR 2016, Shenzhen, China Int. Conf. on Frontiers in Handwriting Recognition <a href="http://www.nipr.ia.cn/icfhr2016/">http://www.nipr.ia.cn/icfhr2016/</a>	October 23-26, 2016	April 30, 2016
BMVC 2016, York, UK British Machine Vision Conference <a href="http://bmvc2016.cs.york.ac.uk/">http://bmvc2016.cs.york.ac.uk/</a>	September 19-22, 2016	May 9, 2016
ICVGIP 2016, Guwahati, India Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP) <a href="http://www.itg.ernet.in/icvgip2016/">http://www.itg.ernet.in/icvgip2016/</a>	December 18-22, 2016	July 8, 2016 (abstracts) July 15, 2016 (full paper)

## 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 to 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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