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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 May edition of TC10 newsletter, where you will find, among others, information about the ICDAR 2015 Workshops and the Doctoral Consortium.

We would like to remind that the deadline of the GREC workshop is approaching, so be prepared for submitting your contributions!!

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

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

GREC 2015: Announcement

**Eleventh IAPR International Workshop on Graphics Recognition - GREC 2015**

August 20-21, 2015  
<http://grec2015.loria.fr/>

**Location Change: GREC in Tunis!**

Contrary to initial communication and announcements, GREC 2015 will not be held in Sousse, but in Tunis, at the same conference hotel as ICDAR 2015. Please update your travel plans accordingly.

**Important Dates**

- Paper submission: **1 June 2015 (no extensions!)**
- Acceptance notified: 11 June 2015.
- Workshop: 20-21 August 2015.
- Post-proceedings submission: November 2015.

The GREC workshops provide an excellent opportunity for researchers and practitioners at all levels of experience to meet colleagues and to share new ideas and knowledge about graphics recognition methods. The workshops enjoy strong participation from researchers in both industry and academia.

**Topics**

- Relevant topics of interest include, but are not limited to:
- Raster-to-vector techniques.
- Recognition of graphical primitives.
- Recognition of graphic symbols in charts, diagrams, and drawings.
- Interpretation of engineering drawings, maps, charts, tables, and other graphical documents.
- Graphics-based information retrieval.
- Historical graphic indexing.
- Description of complete systems for interpretation of graphic documents.
- Performance evaluation in graphics recognition.
- Authoring, editing, storing and presentation systems for graphics multimedia documents.
- 3-D models from multiple 2-D views (line drawings).
- Identification and localization of graphical mark-ups and annotations in written documents.
- Digital ink processing.
- Sketch recognition and understanding.

**Special Track on Document Element Recognition**

Document elements such as tables, figures, algorithms, equations, flowcharts, CAD/CAM diagrams, etc. need specialized recognition techniques. A special track will be devoted to papers on a wide range of topics related to document element recognition including, but, not limited to, models, recognition techniques including segmenters, parsers, and inference of document elements, document element understanding, and retrieval.

**Track chair:** Prasenjit Mitra

### Engineering Drawing Challenge

We present the Engineering Drawing Challenge in the framework of the GREC'15. This is a totally open challenge, in which the participants are encouraged to present innovative ideas and methods related to automatic engineering drawing interpretation. The ultimate goal is to foster creativity and give more visibility to the presented proposals while collaborating on enriching the state-of-the-art in the field.

More details at: <http://iapr-tc10.univ-lr.fr/index.php/conferences/contest?id=297>

Organizers: [Luis-Pere de las Heras](#), [Christophe Rigaud](#).

### Post-proceedings

Please be aware that the GREC Workshop has a unique acceptance and publishing policy. In order to foster highly interactive and creative interactions, papers are selected and accepted after a summary review, ensuring that presented papers are within the topics of the event.

After the workshop, authors have the opportunity to submit an extended and revised paper for full single-blind review and subsequent publication. Acceptance for presentation at the workshop does not guarantee acceptance and publication in the post-proceedings.

More information at the GREC website: <http://grec2015.loria.fr/>

Follow us at Facebook: <https://www.facebook.com/pages/GREC-2015/846507395386279>

Follow us at Twitter: [https://twitter.com/GREC\\_2015](https://twitter.com/GREC_2015)

We are looking forward to your participation!

The GREC 2015 organizing committee

## GREC 2015 Engineering Drawing Challenge: Call for participation

### Engineering Drawing Challenge

Eleventh International Workshop on Graphics Recognition (GREC 2015)

August 20-21, 2015

We present the Engineering Drawing Challenge in the framework of the GREC'15, to be held at the El Hana Hannibal Palace Hotel, Sousse, Tunisia - August 20-21, 2015. This is a totally open challenge, in which the participants are encouraged to present innovative ideas and methods related to automatic engineering drawing interpretation. The ultimate goal is to foster creativity and give more visibility to the presented proposals while collaborating on enriching the state-of-the-art in the field. In the following we present the details of the challenge.

### Dataset

During last GREC, hundreds of engineering drawings have been made available to our community thanks to Daniel Lopresti and the Bethlehem Steel Corporation. They are both hand-made and computer-made drawings from the 60's to 90's. Tedious work has started at L3I lab to digitize such material and the 23 first images will be soon available for research purposes at the TC10 website.

### Description

We propose a first exploratory challenge in which only the image dataset is facilitated to the community. Thus, the participants are requested to present open ideas and methods describing how they can collaborate to enhance, understand, preserve and reuse such unique heritage. Each participant is invited to express his interest by submitting an extended abstract to present its method and contribution. The experiments are accepted to be conducted on partial or full dataset. Examples of contributions are (but not limited to): image enhancement, vectorization, text/graphic separation, symbol detection, groundtruthing assistant tool.

### Evaluation

During GREC'15, all the participants of the Engineering Drawing Challenge will have the opportunity to present their results and the audience will be invited to vote for the best contribution (Student Response System). Among the presented contributions, the authors of the one that will be considered as the most innovative, creative and interesting by the audience will be awarded.

### Submission of results

Participants are invited to email an extended abstract of two A4 pages maximum following the Author Instructions and Paper Format of GREC'15 to the organizers. Additional material (e.g. results images) can be included as download link.

### Important dates

1st July - Deadline for extended abstract submission (2 pages maximum)

### Organizers

- [Luis-Pere de las Heras](#), Computer Vision Center, Spain

- [Christophe Rigaud](#), Université de La Rochelle, France

More details will be soon available at the website of GREC 2015:

<http://iapr-tc10.univ-lr.fr/index.php/conferences/contest?id=297>

## CBDAR 2015: Announcement

### 6th Int. Workshop on Camera Based Document Analysis and Recognition

<http://www.cvc.uab.es/CBDAR2015>

The 6th International Workshop on Camera Based Document Analysis and Recognition (CBDAR 2015) will be held in Gammarth,

Tunisia, on August 22nd 2015 in conjunction with ICDAR 2015.

The pervasiveness and widespread availability of camera phones, hand-held digital still/video cameras and more recently wearable cameras have led the community to recognize camera captured images as a promising and growing field of research for document analysis and recognition. Document digitization techniques are gradually getting closer to camera based solutions, offering certain advantages (e.g. for scanning large scale or fragile documents), and presenting interesting new challenges and open problems which cannot be directly resolved by traditional techniques.

Building on the success of the previous five CBDAR workshops in 2005 (Seoul, Korea), 2007 (Curitiba, Brazil), 2009 (Barcelona, Spain), 2011 (Beijing, China), and Washington DC (USA), CBDAR 2015 will be held in Gammarth, Tunisia in conjunction with ICDAR 2015. The aim of the workshop is to provide a natural link between document image analysis and the wider computer vision community by attracting cutting edge research on the topic.

#### Topics of Interest

- camera based acquisition of written information
- restoration of camera captured documents (dewarping, deblurring, etc.)
- image degradation models for camera captured characters/documents
- document image quality analysis
- character segmentation / recognition from scene images
- layout analysis for camera captured documents
- text in video
- document image retrieval
- devices and algorithms for camera-based document analysis and recognition
- device constrained techniques and algorithms
- performance evaluation and metrics
- applications such as translation, reading text for the blind, etc
- human-document interaction

#### Workshop Chairs

- Dr Dimosthenis Karatzas (Computer Vision Centre - Spain)
- Dr Faisal Shafait (University of Western Australia -Australia)

#### Workshop Format

CBDAR is a 100% participation, one-day, single-track workshop featuring keynote talks, oral/poster presentations, a demo session, and a panel discussion.

#### Publications

Electronic copies of the workshop proceedings containing all contributed papers will be distributed at the workshop. After the workshop, revised versions of selected papers will be published in Springer LNCS series as post-proceedings.

#### Submission Information

CBDAR 2015 invites the submission of original, previously unpublished work and welcomes, with some restrictions, submissions which are closely related to work submitted to ICDAR 2015. This workshop employs single-blind review, in which referees remain anonymous for the authors throughout the process. Papers should not exceed 6 printed pages in IEEE CS format. Full details of the formatting instructions, a sample document and templates for LaTeX and MS-Word users will be available at the CBDAR 2015 homepage soon.

#### Important Dates

- Paper submission due: May 31, 2015
- Author Notification: June 25, 2015
- Camera-ready paper due: July 8, 2015

## HIP 2015: Call for Papers

### 3rd International Workshop on Historical Document Imaging and Processing (HIP 2015)

22 August 2015, Gammarth, Tunisia

<http://hip2015.irisa.fr/>

It is our pleasure to announce that the 3rd International Workshop on Historical Document Imaging and Processing (HIP'15) will be held in conjunction with ICDAR'15, on August 22, 2015 at the Ramada Plaza Tunis Hotel in Gammarth, Tunisia.

The workshop brings together researchers working with historical documents and is intended to be complementary and synergistic to the work in analysis and recognition featured in the main sessions of ICDAR, the premier international forum for researchers and practitioners in the document analysis community.

Workshop topics include (but are not limited too)

- Imaging and Image Acquisition
  - \* Imaging for fragile materials
  - \* Multispectral imaging
  - \* Camera-based/non-invasive acquisition
  - \* Case studies/applications
- Digital Archiving Considerations
  - \* Compression issues
  - \* Measuring essential resolution (color, spatial) and metadata
  - \* Modeling of document image degradation Historical Collections
  - \* Military records, personal journals, church records, medieval manuscripts, etc.

- \* Scientific, technical and educational documents
- \* Government archives, documents from the world cultural heritage, multi-language
- Document Restoration/Improving readability
  - \* Removing or minimizing damages, defects, ink-bleed
  - \* Completing and filling in missing pieces based on context, prior knowledge, supporting documents, i.e. inpainting, etc.
  - \* Machine-learning algorithms for enhancement based on example images
  - \* Interactive tools from a user viewpoint
  - \* Learning from user-directed image enhancement
- Content Extraction (within the context of historical documents)
  - \* Content-based retrieval
  - \* Automated or semi-automated transcription
  - \* Content recognition based on surrounding and supporting context
  - \* Ontologies for modeling historical document content
- Family History Documents and Genealogies
  - \* Personal, Family, National and Historical Collections of Family Genealogy and Histories
  - \* Extracting and linking names, dates, places, etc.
  - \* Extracting, linking and piecing together personal and family histories and narratives
  - \* Discovering historical social networks
- Automated Classification, Grouping and Hyperlinking of Historical Documents
  - \* Style identification (typography of printed text, handwriting style recognition for manuscript authentication or author identification...)
  - \* Searching for Documents over the Internet
  - \* On-line & web-based navigation within/among document images
  - \* Searching/querying, retrieval, summarizing/condensing of document images
  - \* Collecting, linking, analysis and search technologies
  - \* Parallel tagging of images, transcripts, and other document layers

#### Important Dates

- June 1, 2015: Paper submission
- July 1, 2015: Notification of Acceptance
- July 20, 2015: Camera-ready paper

## ICDAR 2015 Doctoral Consortium: Call for participation

### ICDAR 2015 Doctoral Consortium (in conjunction with ICDAR 2015)

August 23, 2015, Gammarth, Tunisia

<http://2015.icdar.org/doctoral-consortium/>

In 2011 the Leadership Teams of TC-10 and TC-11 agreed to jointly organize the first Doctoral Consortium in conjunction with ICDAR 2011 which lead to a successor event that took place in conjunction with ICDAR 2013. Given the great success of these initial events the tradition of Doctoral Consortiums as satellite events to ICDAR conferences will be continued.

The goal of the ICDAR 2015 Doctoral Consortium is to create an opportunity for Ph.D. students to test their research ideas, present their current progress and future plans, and receive constructive criticism and insights related to their future work and career perspectives. A mentor (a senior researcher who is active in the field) will be assigned to each student to provide individual feedback. In addition, students will have the opportunity to present an overview of their research plan during a special poster session.

Participation in the ICDAR 2015 Doctoral Consortium will be limited to 25 students. Prospective participants are encouraged to submit their application by May 15 (submission procedure to be announced). The Doctoral Consortium Chairs will then review all applications received. Preference will be given to students who are at a stage in their studies most likely to benefit (i.e., they have identified a research direction and published some initial results, but the thesis is not yet set in stone). As in previous years, the event will be organized such that the registration fees for participating students will be minimal. The ICDAR 2015 Doctoral Consortium will take place the day before the main conference, i.e., on August 23.

For up-to-date information on the ICDAR 2015 Doctoral Consortium please visit the DC's web pages:

<http://2015.icdar.org/doctoral-consortium/>

For submitting your materials to the ICDAR 2015 Doctoral Consortium please visit the DC's submission page at EasyChair:

<https://easychair.org/conferences/?conf=icdar2015dc>

#### INSTRUCTIONS

Students willing to participate in the ICDAR 2015 Doctoral Consortium are kindly requested to submit the following items via the submission page:

- Name and Affiliation
- Title
- Abstract, i.e., short description of their PhD research
- Submission package (as a single PDF file; for more details see below)

The submission package should be prepared using the following LaTeX template

[http://patrec.cs.tu-dortmund.de/events/icdar15dc/ICDAR\\_2015\\_DC\\_template.zip](http://patrec.cs.tu-dortmund.de/events/icdar15dc/ICDAR_2015_DC_template.zip)

and should contain the following information:

- Student's name
- Supervisor of the thesis
- University
- Starting date of the PhD
- Expected finalization date of the PhD

- Short research plan (1-2 pages)
- Short CV (1-2 pages)

The research plan should contain an overview of the PhD topic, the steps made so far (including a list of publications), and the actions planned before finishing the PhD, especially novel research ideas to be pursued.

#### Important dates

- Submission deadline: **May 31** (extended)
- Acceptance notification and Mentor assignment: June 10 (extended)
- Final material due: July 15 (extended)
- Doctoral Consortium: August 23

We are looking forward to your participation!

[Alicia Fornés](#) & [Gernot A. Fink](#)

ICDAR 2015 Doctoral Consortium Chairs

## ICDAR 2019: Call for Hosting Proposals

### International Conference on Document Analysis and Recognition Call for proposals to host ICDAR 2019

**Deadline:** June 15, 2015

Submission Method: email to [kise@cs.osakafu-u.ac.jp](mailto:kise@cs.osakafu-u.ac.jp)

The ICDAR Advisory Board is seeking proposals to host the 15th International Conference on Document Analysis and Recognition, to be held in 2019 (ICDAR2019).

ICDAR is the premier IAPR event in the field of Document Analysis and Recognition with 300 to 500 participants. The aim of this conference is to bring together international experts to share their experiences and to promote research and development in all areas of Document Analysis and Recognition.

Any consortium interested in making a proposal to host an ICDAR should first familiarise themselves with the "Guidelines for Organizing and Bidding to Host ICDAR" document which is available on the TC10 and TC11 websites ( <http://iapr-tc10.univ-lr.fr> and <http://www.iapr-tc11.org>, respectively).

A link to the most current version of the guidelines appears below:

[http://www.iapr-tc11.org/mediawiki/images/ICDAR\\_Guidelines\\_2011\\_04\\_04.pdf](http://www.iapr-tc11.org/mediawiki/images/ICDAR_Guidelines_2011_04_04.pdf)

The submission of a bid implies full agreement with the rules and procedures outlined in that document.

The submitted proposal must define clearly the items specified in the guidelines (Section 5.2).

It has been the tradition that the location of ICDAR conferences follows a rotating schedule among different continents.

Hence, proposals from America are encouraged. However, high quality bids from other locations, for example, from countries where we have had no ICDAR before, will also be considered.

Proposals will be examined by the ICDAR Advisory Board.

**Deadline:** June 15, 2015

Submission Method: email to Prof. Koichi Kise: [kise@cs.osakafu-u.ac.jp](mailto:kise@cs.osakafu-u.ac.jp)

#### ICDAR Advisory Board

- Prof. Koichi Kise (Chair, TC11)
- Prof. Rafael Dueire Lins (Chair, TC10)
- Prof. Dan Lopresti (Chair, C&M)
- Prof. Jean-Marc Ogier
- Prof. Josep Lladós
- Prof. Simone Marinai
- Prof. Cheng-Lin Liu

## IJDAR articles alert

### Volume 18, Issue 2

<http://link.springer.com/journal/10032/18/2/page/1>

- Restoring camera-captured distorted document images  
*Changsong Liu, Yu Zhang, Baokang Wang, et al.*
- Scene text extraction based on edges and support vector regression  
*Shijian Lu, Tao Chen, Shangxuan Tian, et al.*
- A new ring radius transform-based thinning method for multi-oriented video characters  
*Yirui Wu, Palahnakote Shivakumara, et al.*
- Exploiting colour information for better scene text detection and recognition  
*Muhammad Fraz, M. Saquib Sarfraz, et al.*

- Fast and accurate scene text understanding with image binarization and off-the-shelf OCR

*Sergey Milyaev, Olga Barinova, et al.*

- Automatic diacritization of Arabic text using recurrent neural networks

*Gheith A. Abandah, Alex Graves, et al.*

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

## DAS 2016: First Announcement

### International Workshop on Document Analysis Systems (DAS)

Santorini, Greece

11-14 April 2016

<http://www.primaresearch.org/das2016>

We are pleased to announce that DAS2016 will be held on the island of Santorini in Greece between 11-14 April 2016.

Put the date in your calendar and watch the workshop web site

<http://www.primaresearch.org/das2016>

for further announcements and Call for Papers soon.

Apostolos Antonacopoulos and Basilis Gatos

DAS 2016 General Chairs

## Call for papers

Event/Location/Web	Event Date	Deadline (paper submission)
GREC 2015 (ICDAR workhop), Gammarth , Tunis, Tunisia Int. Workshop on Graphics Recognition <a href="http://grec2015.loria.fr/">http://grec2015.loria.fr/</a>	August 20-21, 2015	June 1, 2015
CB DAR 2015 (ICDAR workhop), Tunisia Int. Workshop on Camera Based Document Analysis and Recognition <a href="http://www.cvc.uab.es/CBDAR2015">http://www.cvc.uab.es/CBDAR2015</a>	August 22, 2015	May 31, 2015
AFHA 2015 (ICDAR workhop), Tunisia Int. Workshop on Automated Forensic Handwriting Analysis <a href="http://www.dfki.uni-kl.de/afha2015/index.html">http://www.dfki.uni-kl.de/afha2015/index.html</a>	August 21-22, 2015	May 30, 2015
Doctoral Consortium (ICDAR 2015), Tunisia Int. Conf. on Document Analysis and Recognition <a href="http://2015.icdar.org/">http://2015.icdar.org/</a>	August 23, 2015	June 1, 2015
HIP 2015 (ICDAR workhop), Tunisia Int. Workshop on Historical Document Imaging and Processing <a href="http://hip2015.irisa.fr">http://hip2015.irisa.fr</a>	August 22, 2015	June 1, 2015
GCPR 2015, Aachen, Germany German Conference on Pattern Recognition <a href="http://gcpr2015.rwth-aachen.de/">http://gcpr2015.rwth-aachen.de/</a>	October 07-09, 2015	May 29, 2015
ACPR 2015, Kuala Lumpur, Malaysia Asian Conf. on Pattern Recognition <a href="http://acpr2015.org/">http://acpr2015.org/</a>	November 3-6, 2015	June 1, 2015
DRR 2016, San Francisco, USA Document Recognition and Retrieval <a href="http://drr2016.loria.fr/">http://drr2016.loria.fr/</a>	February 15-18, 2016	July 15, 2015 (full paper) June 30, 2015 (Journal option) September 11, 2015 (short, presentation only)
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	TBA

## 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 Bart Lamiroy  
TC-11 and TC-10 Dataset Curators

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To manage your subscription, please please login and edit your profile at: <http://iapr-tc10.univ-lr.fr>

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