

In This Issue



- Message from the new TC10 Executive Committee
- TC10 Workplan
- Call for TC10 Communication Officer
- LNCS-GREC post-proceedings
- Call for papers for ICDAR 2019
- GREC 2019 workshop : first announcement
- ICDAR 2019 competitions related to graphics recognition
- Call for Nominations for ICDAR 2019 Awards
- Call for Nominations for ICDAR 2019 Awards
- Call for Nominations for ICDAR 2019 Awards
- Call for Nominations for ICDAR 2019 Awards
- Call for Nominations for ICDAR 2019 Awards
- Postdoc position at LIRIS (France)

{unsubscribe}Unsubscribe{/unsubscribe}

Call for Contributions

Please contribute relevant news to TC10 groups.

Please send any relevant event, notice, dataset or link to us on
iapr.tc10@gmail.com

Message from the editor



Welcome to the January edition of the TC10 newsletter, which contains information on the LNCS-GREC post-proceedings, the first announcement of GREC 2019, the call for nominations for ICDAR 2019 Awards, and the call for ICDAR 2019 papers.

In this edition, we would like to announce the new TC10 leadership, as well as the call for TC10 Communication Officer (Newsletter editor). We also inform on the work plan for the next term.

Follow us at twitter:
https://twitter.com/IAPR_TC10

Alicia Fornés

Message from the TC10 Executive Committee

Dear TC10 members,

During the last ICPR, it was announced that the current TC10 leadership would change. During this autumn, Alicia Fornés has been appointed as the successor to Bart Lamiroy. First of all, the TC10 Executive Committee would like to thank Bart on behalf of the whole TC10 community, for the invaluable work done during his chairmanship the last two years, and also, for his willingness to keep on serving as counsel.

We would also like to thank Motoi Iwata and Syed Saqib Bukhari for their service during these last years.

The new Executive Committee will be composed of:

- Chair: Alicia Fornés, Computer Vision Center, Universitat Autònoma de Barcelona, SPAIN.
- Vice chair: Jean-Christophe Burie, L3i, University of la Rochelle, FRANCE.
- Webmaster: Muhammad Muzzamil Luqman, L3i, University of la Rochelle, FRANCE.
- Educational officer: K.C. Santosh, University of South Dakota, USA.
- Dataset curator: Partha Pratim Roy, Indian Institute of Technology Roorkee, INDIA.
- Communication officer: TBC.

Best regards,

The TC10 Executive Committee

TC10 Workplan

The new TC10 Executive Committee would like to summarize the main guidelines of the TC10 work plan for the next term.

The main objectives are:

- To use the TC10 web site as a platform to find updated information about conferences, summer schools, recent papers, competitions, databases, etc.
- To foster and increase the visibility of databases and competitions on graphics recognition.
- To increase connections with other groups/TCs in the Pattern Recognition field (e.g. communities working with sketches, patents, comics, music scores, etc.).
- To promote the edition of a special issue on graphics recognition in an international journal covering the state of the art and the relevant advances in the field.
- To foster and improve the GREC workshop so that it can be the main event to share ideas and discuss research among the Graphics Recognition community.
- To encourage the active participation of everyone in this community, suggesting ideas for improvements, giving advice for future directions, etc.

The team is currently working on:

- The organization of the GREC workshop. GREC 2019 will be held in conjunction with ICDAR in Sydney on 20th and 21st september 2019. Please, save the date!
- The new TC-10 website. Muzzamil Luqman is designing the new website and transferring the contents of the current TC10 web site to the new one. We will maintain the URL. In order to update the TC10 mailing list, please let us know any change in your e-mail addresses.
- The new TC-10 logo is being designed. Any suggestions or ideas are welcome.

Best regards,

The TC10 Executive Committee

Call for Communication Officer

The new committee is welcoming (and strongly encouraging) new researchers who

want to contribute to the Graphics Recognition community in a broad sense. We are looking for:

- Communication officer/s (Newsletter editor): Researcher in charge of the preparation of the newsletters and the communication via social networks (e.g. Twitter), with the aim to provide information of interest to the community (new calls for papers, phd/postdoc positions, datasets, etc.). This task could be shared among a few group of people.
- Active TC-10 friend: Researchers who are willing to help in some punctual and specific activities (e.g. organizing a discussion group at the next GREC workshop, informing of news of interest, etc.), to suggest ideas for new activities at TC10, etc.

If you would like to get involved, please contact us.

Contact:

- Alicia Fornes <afornes@cvc.uab.es>
- Jean-Christophe Burie <jean-christophe.burie@univ-lr.fr>

LNCS-GREC 2017 post-proceedings

International Workshop on Graphics Recognition (GREC)

LNCS Postproceedings

<http://grec2017.loria.fr/>

The GREC workshop was, as usual, a great opportunity to share new ideas and knowledge about graphics recognition. As in previous editions, after the GREC workshop, authors had the opportunity to submit an extended and revised paper for publication at Lecture Notes in Computer Science (LNCS), Springer.

Springer has finalized the edition of the volume, which is available at:

<https://link.springer.com/book/10.1007%2F978-3-030-02284-6>

Thanks again for all your contributions.

Alicia Fornés and Bart Lamiroy

The GREC 2017 chairs

ICDAR: Call for Papers

15th International Conference on Document Analysis and Recognition
Sydney, Australia
September 20-25, 2019
<http://icdar2019.org/>

The International Conference on Document Analysis and Recognition, established nearly three decades ago and endorsed by IAPR-TC 10/11, is the premier international gathering for researchers, scientist and practitioners in the document analysis community.

The 15th International Conference on Document Analysis and Recognition (ICDAR 2019) is being organised by University of Technology Sydney (UTS), Australia and will be held at the International Convention Centre (ICC) in Sydney. The conference General Chairs are Michael Blumenstein and Umapada Pal.

****Topics of Interest include, but not limited to:****

- Document Image Processing
- Physical and logical layout analysis
- Character and text recognition
- Pen-based document analysis
- Historical document analysis
- Document analysis systems
- Symbol and graphics recognition
- Document forensics
- Human document interaction
- Scene text detection and recognition
- Document retrieval
- Signature verification and writer identification
- Multimedia documents
- Performance evaluation
- Machine learning for document analysis
- Applications of document analysis
- Cognitive issues of documents
- Semantic information extraction from documents
- Document summarization classification and translation
- Document simulation and synthesis

****Important Dates****

- Feb 15, 2019 Paper Submission Deadline
- May 15, 2019 Author Notification
- Jun 15, 2019 Camera-Ready Papers Due

**** ICDAR 2019 Program Chairs**

Cheng-Lin Liu, Andreas Dengel, and Rafael Lins
(<liucl@nlpr.ia.ac.cn>, <dengel@dfki.uni-kl.de>, <rdl@ufpe.br>)

GREC 2019 : first announcement

13th International Workshop on Graphics Recognition (GREC)
September 20-21, 2019
Sydney, Australia
<http://grec2019.univ-lr.fr/>

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. Graphics Recognition is a subfield of document image analysis that deals with graphical entities in engineering drawings, comics, musical scores, sketches, maps, architectural plans, mathematical notation, tables, diagrams, etc.

The aim of this workshop is to maintain a very high level of interaction and creative discussions between participants, maintaining a "workshop" spirit, and not being tempted by a "mini-conference" model.

GREC 2019 will continue the tradition of past workshops held at the Penn State University (USA), Nancy (France), Jaipur (India), Kingston (Canada), Barcelona (Spain), Hong Kong (China), Curitiba (Brazil), La Rochelle (France), Seoul (Corea), Lehigh (USA), Nancy (France) and Kyoto (Japan).

The workshop will comprise several sessions dedicated to specific topics related to graphics in document analysis and graphic recognition. For each session, there will be an invited presentation describing the state of the art and stating the open questions for the session's topic, followed by a number of short presentations that will contribute by proposing solutions to some of the questions or presenting results of the speaker's work. Each session will be concluded by a panel discussion.

For this 13th edition, we would like to highlight three topics related to graphic recognition.

Three special sessions will focus on :

- Music Scores Recognition,
- Comics Analysis and Understanding
- Sketch Recognition and Understanding.

We encourage the authors to submit papers on these topics.

However papers on the following topics are of course expected.

Topics

- Analysis and interpretation of graphical documents, such as: Engineering drawings, floorplans, mathematical expressions, comics, maps, music scores, patents, diagrams, charts, tables, etc.
- Recognition of graphic elements, such as symbols, logos, stamps, dropcaps, drawings, etc.
- Identification and localization of graphical mark-ups and annotations in written documents.
- Raster-to-vector techniques.
- Graphics-based information retrieval.
- Historical graphics recognition and indexing.
- Forensics (Writer identification/verification) in graphic documents.
- Description of complete systems for interpretation of graphic documents.
- Datasets and 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).
- Digital ink processing.
- Sketch recognition and understanding.
- Camera-based graphics recognition.
- Graphics recognition in born digital documents.
- Analysis of graphics on new digital interfaces.
- Graphics detection and recognition in real scenes.

After the workshop authors will be invited to submit an extended version of their papers for publication in an international journal. The name of the journal will be commun in few weeks.

Important dates

- Submission Deadline: May 20, 2019
- Acceptance Notification: June 15, 2019
- Camera ready due: June 30, 2019
- Main Conference: September. 20 - 21, 2019

Organizers

- Jean-Christophe Burie (jcburie [at] univ-lr.fr)
- Gunther Drevin (gunther.drevin [at] nwu.ac.za)
- Partha Pratim Roy (proy.fcs [at] iitr.ac.in)
- K.C. Santosh (Santosh.KC [at] usd.edu)

ICDAR 2019 competitions related to graphics recognition

As per the initial information that we have received, the following two competitions, related to graphics recognition, are being organized for ICDAR 2019:

1) ICDAR 2019 Competition on Fine-Grained Classification of Comic Characters

In this competition, we would like to tackle the problem of fine-grained comic character classification which lies between characters detection and identification of individual character (character's name). The competition task aims at classifying the character's images into one of the existing classes of individual comic characters. For example, all image instances of the character "Batman" should be classified in one same class "Batman", all instances of the character "Daredevil" should be in class "Daredevil". The visual distinctions between characters are often subtle, especially for characters in the same album, or in multiple albums of the same authors or the same style. Hence, it is difficult to address with today's general-purpose object classification methods. The comic book image analysis has been initially studied by the Document Image Analysis community. After that, it has been studied in the domain of computer vision using machine learning and graph recognition. The problem of fine-grained classification of comic characters could be handled by different approaches by different techniques. We encourage the participants to image-based approaches, graph-based approaches or hybrid-approaches. For more details about the competition and the deadlines, please visit the website: <https://fgc.univ-lr.fr/challenge/>

2) ICDAR 2019 Competition on Object Detection/Recognition in Floorplan images

The ICDAR2019-ORF competition will be focusing on a very interesting challenge which makes the foundation for the semantic interpretation of the floorplan images. The ICDAR2019-ORF competition will propose only one task to the participants, which will be Object Recognition in Floorplan images. The participants will be required to detect objects in the floorplan images and provide labels for each of them. The task is important for developing systems that can understand and interpret the floorplan images. An interesting example of application that we imagine is to find all the tables/chairs/beds/sinks in the given floorplan images or to index a floorplan repository on the basis of the objects (or specific organization of objects). For more details about the competition and the deadlines, please visit the website: <https://orf.univ-lr.fr>

ICDAR 2019: Call for Nominations for ICDAR Awards

Call for Nominations for ICDAR 2019 Awards

International Conference on Document Analysis and Recognition (ICDAR)

<http://icdar2019.org/>

The ICDAR Award Program is an established program designed to recognize individuals who have made outstanding contributions to the field of Document Analysis and Recognition in one or more of the following areas:

- o Research
- o Training of students
- o Research/Industry interaction
- o Service to the profession

Every two years, two awards categories are presented. Namely, the IAPR/ICDAR Young Investigator Award (less than 40 years old at the time the award is made), and the IAPR/ICDAR Outstanding Achievements Award. Each award will consist of a token gift and a suitably inscribed certificate. The recipient of the Outstanding Achievements award will be invited to give the opening key note speech at the ICDAR 2019 conference, introduced by the recipient from the previous conference.

Nominations are invited for the ICDAR 2019 Awards in both categories.

The nomination packet should include the following:

1. A nominating letter (1 page) including a brief citation to be included in the certificate.

2. A brief vitae (2 pages) of the nominee highlighting the accomplishments being recognized.
3. Supporting letters (1 page each) from 3 active researchers from at least 3 different countries.

A nomination is usually put forward by a researcher (preferably from a different Institution than the nominee) who is knowledgeable of the scientific achievements of the nominee, and who organizes letters of support.

Submission procedure is strictly confidential, and self-nominations are not allowed.

Please send nominations packets electronically to the Awards Committee Co-Chairs Dimosthenis Karatzas [dimos@cvc.uab.es] and Alicia Fornes [afornes@cvc.uab.es] .

Deadline: May 1st, 2019, but early submissions are strongly encouraged.

The final decision will be made by the Awards Committee which is composed of the ICDAR advisory board and the previous awardees.

ICDAR Advisory Board

ICDAR 2023: Call for Hosting Proposals

CALL FOR PROPOSALS TO HOST ICDAR2023

International Conference on Document Analysis and Recognition (ICDAR)

The ICDAR Advisory Board is seeking proposals to host the 17th International Conference on Document Analysis and Recognition, to be held in 2023 (ICDAR2023).

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 (www.iapr-tc10.org and www.iapr-tc11.org, respectively).

A link to the most current version of the guidelines appears below. Small updates in the guidelines are expected during the next few weeks, so please check on the Web site of TC11 for the latest version.

http://www.iapr-tc11.org/mediawiki/images/ICDAR_Guidelines_2016_02_27.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.

Proposals should be emailed to:

- Dr. Dimosthenis Karatzas at dimos@cvc.uab.es
- Dr. Alicia Fornes at afornes@cvc.uab.es

Deadline: June 1, 2019

ICDAR Advisory Board

Pattern Recognition Letters : Special Issue

MOTIVATIONS

Artificial Intelligence is rapidly contaminating new areas of our life day by day. On the other hand, the management of Cultural Heritage is increasingly in need of new solutions to document, manage and visit (even virtually) the enormous amount of artifacts and information that come from the past. The contamination of these two worlds is now a reality and creates the bounds of the main topics of this Virtual Special Issue (VSI). Currently, Artificial Intelligence (AI) and Pattern Recognition (PR) technologies are already employed in the fields of cultural heritage preservation and exploitation. From these fields, two main issues arise:

the information contained in digital representations of physical objects like scanned documents, scanned artifacts, maps, digital music, etc. are not easy to exploit and some kind of smart analysis is needed;

at the same time, the production of digital material such as augmented reality, Cultural Heritage games, robotics applications, etc. need innovative techniques and methodologies.

The above issues are leading AI and PR researchers to develop new methodologies and applications, which are able to analyze the available data or to generate new ones in a smart way (for augmented reality, serious games, etc.).

The aim of this special issue is to present recent advances in AI and PR for data analysis and representation in Cultural Heritage, bringing together the works of many experts in this multidisciplinary subject that involves different skills and knowledge, which span from the study of the cultural heritage to the development of PR/AI techniques for cultural heritage analysis, reconstruction and understanding. At the same time, the VSI is aimed at highlighting the advances on these topics from a wide-angle perspective, as well as to stimulate new theoretical and applied research for better characterizing the state of the art in this subject.

TOPICS

We are interested in original research that addresses the multitude of issues in handwriting. Topics include, but are not limited to the following:

Ancient document analysis

Digital artifact capture, representation and manipulation

Automatic annotation of tangible and intangible heritage

Interactive software tools for cultural heritage applications

Multimedia music classification and reconstruction

Augmented and Virtual Reality applications

Image processing, classification and retrieval

Semantic segmentation

Serious Game for Cultural Heritage

Robotic applications

Ontology Learning for cultural heritage domain

Knowledge representations and reasoning

Techniques for exploring and interacting with repositories of digital artifacts

IMPORTANT DATES

First submission paper due: June 30, 2019

First review notification: August 10, 2019

Revision submission: September 25, 2019

Second review notification: October 30, 2019

Final notice of acceptance/rejection: November 8, 2019

SUBMISSION GUIDELINES

Paper submissions must conform to the Pattern Recognition Letters format guidelines

Manuscripts can have no more than 7 pages (plus one page after revision) and must be submitted to the online submission system. When submitting their papers through the online system, authors must select the acronym "VSI:PRAICH" as the article type.

Submissions to the special issue must include new, unpublished, original research. Papers must be original and have not been published or submitted elsewhere.

If the submissions are extended works of previously published papers, the original works should be included and a

description of the changes that have been made should be provided.

Guest editors will make an initial determination of the suitability and scope of all submissions.

CONTACTS

Special issue website

For enquiries regarding the special issue, send an email to the managing guest editor at:
fontanella@unicas.it

GUEST EDITORS

Francesco Colace, Università di Salerno (ITALY)

Francesco Fontanella, Università di Cassino e del Lazio meridionale (ITALY)

Mario Molinara, Università di Cassino e del Lazio meridionale (ITALY)

Alessandra Scotto di Freca, Università di Cassino e del Lazio meridionale (ITALY)

Filippo Stanco, Università di Catania (ITALY)

Call for papers

Event/Location/Web	Event Date	Deadline (paper submission)
DATECH 2019, Brussels, Belgium Digital Access to Textual Cultural Heritage http://datech.digitisation.eu/call-for-papers/	May 8-10, 2019	- passed -
ICDAR 2019, Sydney, Australia Int. Conf. on Document Analysis and Recognition http://www.icdar2019.org/	September 22-25, 2019	Feb. 15, 2018 (paper)
ICCV 2019, Seoul, Korea Int. Conf. on Computer Vision http://iccv2019.thecvf.com/	Oct. 27 - Nov. 3, 2019	March 22, 2019 (paper)

PostDoc at LIRIS (Lyon, France)

Context :

This topic of Post Doc is part of the project ANR ECLATS whose main objective is the dematerialization and exploitation of the information contained in the geographical maps

Topic :

This topic of Post Doc is part of the project ANR ECLATS whose main objective is the dematerialization and exploitation of the information contained in the geographical maps of the French linguistic Atlas (ALF, or Atlas Gilliéron) in particular, but also in other cartographic documents. This work is to be done in collaboration with a thesis in progress.

The different points of study in relation to these maps relate to the segmentation of the different elements present on these maps:

- annotation written, iconic, symbolic

- plots of different natures (curves of levels, rivers, roads, borders...)
- colour areas, textures
- ...

The objective is to extract homogeneous semantic layers, containing only one type of component. A specific recognition process will then be considered for the layers of writing or symbols.

The post-doctoral candidate will also be responsible for proposing solutions for the encapsulation of data in compact formats to facilitate their dissemination and integration into the other batches of the project. This can go through a vectorization of the different lines or signs that will allow a much more compact recording of maps as well as a prototype representation of textual and numerical data.

The procedures for the recognition of these textual data developed in conjunction with the doctorate can be exploited for this compact encapsulation of the texts present in the ALF documents and their annexes.

Required Profile :

- PhD in Image processing, computer science with knowledge in machine learning
- Programming skills in Matlab/Python/Java or C++
- Skills on Deep Learning framework (Caffé, Tensor Flow, etc)

Details:

- Duration: 12 months
- Position available from: February 1st, 2019
- Place: LIRIS, University of Lyon, France
- Address: Laboratoire LIRIS, INSA Lyon à Villeurbanne, Rhône
- Topics: Computer Science/ Image Processing/ Document Analysis/ Pattern Recognition
- Deadline : 2019-01-31

Contact :

stephane.bres@liris.cnrs.fr , veronique.eglin@liris.cnrs.fr

This newsletter is sent to subscribers of the IAPR TC10 mailing list.

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

Don't want to receive these emails anymore? You can {unsubscribe}Unsubscribe{/unsubscribe}