TC10
Technical Committee on Graphics Recognition

Newsletter   N°131

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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.

Message from the editor

Welcome to the July edition of the TC10 newsletter. It has been boiling hot recently at least in Japan. Some areas updated their highest temperatures. The high temperatures with high humidity make the outdoors a natural sauna. Please take care of yourself to survive this summer.
Do not miss the opportunity to read the report of the TC10/TC11 summer school at La Rochelle. The CFP of MANPU 2019 (comics) and WoRMS 2018 (music) should not be missed, too.
You will also find the announcement of the selected papers for the LNCS-GREC post-proceedings
See you very soon at ICFHR and ICPR.
Enjoy your summer,

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

Summary of the 2nd IAPR TC10/TC11 Summer School in La Rochelle, France

The 2nd IAPR TC10/TC11 Summer School has been held in La Rochelle, France from July 2nd to 6th 2018.

The aim of this summer school was to give to new students in the field of DAR (Document Analysis and Recognition) an overview of all the traditional approaches to process and analyse documents but also to focus on new trends such as deep learning, the use of interactive devices, the fraud issues in documents, and so on.

Different talks have been done by international researchers coming from France, Switzerland, Spain, Japan and United States. In

addition of traditional oral talks, 3 practical sessions have been carried out in order to apply some techniques addressed during the talks. The interactive sessions (such as poster session and self-introduction session) have been a good environment for many exchanges between participants and senior researchers. Finally a visit of the L3i laboratory has also been organised with demonstrations of the research activities in the field of DAR.

Two awards have been given. The poster award has been given to Florian Westphal (Blekinge Institute of Technology, Sweden) for his poster titled "Efficient Binarization using Heterogeneous Computing and Interactive Learning". The excellence award has been given to Tarin Clanuwat (Center for Open Data in the Humanities, Tokyo, Japan) for her outstanding participation.

This event gathered PhD students and junior researchers from 11 countries (France : 7 , Vietnam : 4 , Sweden : 2 , Finland : 2 , Germany : 2 , Indonesia :2 , Pakistan : 1 , Austria : 1 , Tunisia : 1 , Italy : 1 , Japan : 1). Thanks to the support of the IAPR, 2 travel grants and 4 fee waivers have been assigned to participants will low resources. Moreover 17 master students (16 from China and 1 from Brazil) attend to this summer school in order to discover the field of document analysis.

Selected papers for the LNCS-GREC post-proceedings

International Workshop on Graphics Recognition (GREC)
LNCS Postproceedings
http://grec2017.loria.fr/

The GREC workshop was, as usual, a great opportunity for researchers to meet colleagues and to share new ideas and knowledge about graphics recognition methods. In this edition, 27 papers were presented, followed by highly interactive discussions. As in previous editions, after the GREC workshop, authors have the opportunity to submit an extended and revised paper for publication at Lecture Notes in Computer Science (LNCS), Springer.

The selected papers will be published as:
- **Lecture Notes in Computer Science, volume 11009**.
- **Title**: *Graphics Recognition. Current Trends and Challenges*.
  12th International Workshop, GREC 2017, Kyoto, Japan, Revised Selected Papers.

After the reviewing period, the following 10 papers have been accepted for publication:

- Searching for a Compressed Polyline with a Minimum Number of Vertices
  Alexander Gribov
- Pen-based Music Document Transcription with Convolutional Neural Networks
  Javier Sober-Mira, Jorge Calvo-Zaragoza, David Rizo, and Jose M. Inesta
- Extracting the Ground Level Enhancement Event of February 1956 From Legacy Cosmic Ray Recordings
  V.W.F. Mattana, G.R. Drevin, and R.D. Stauss
- Optical Music Recognition by Long Short-Term Memory Networks
  Arnau Baro, Pau Riba, Jorge Calvo-Zaragoza and Alicia Fornes
- Extracting information from molecular pathway diagrams
  Antonio Foncubierta-Rodriguez, Anca-Nicoleta Ciubotaru, Costas Bekas, and Maria Gabrani
- Document Embedded Images Classification
  Matheus Viana, Quoc-Bao Nguyen, John Smith, Maria Gabrani
- Automated Analysis of Phase Diagrams
  Bhargava Urala Kota, Rathin Radhakrishnan Nair, Srirangaraj Setlur, Aparajita Dasgupta, Scott Broderick, Venu Govindaraju, Krishna Rajan
- Extraction of ancient map contents using trees of connected components
  Jordan Drapeau, Thierry Geraud, Mickael Coustaty, Joseph Chazalon, Jean-Christophe Burie, Veronique Eglin, and Stephane Bres
- A System for Automatic Elevation Datum Detection and Hyperlinking of AEC Drawing Documents
  Purnendu Banerjee, Supriya Das, Bhagesh Seraogi, Himadri Majumder, Srinivas Mukkamala, Rahul Roy, Bidyut B. Chaudhuri
- An Approach for Detecting Circular Callouts in Architectural, Engineering and Constructional Drawing Documents
  Sandip Kumar Maity, Bhagesh Seraogi, Supriya Das, Purnendu Banerjee, Himadri Majumder, Srinivas Mukkamala, Rahul Roy, Bidyut B. Chaudhuri

In addition to these selected papers, the volume will include several reports summarizing the discussion groups. We thank the authors of these papers and the discussion group reports.

The volume edition is at its final stage. We will inform you as soon as it will be available.

Alicia Fornés and Bart Lamiroy
The GREC 2017 chairs

Call for papers: MANPU 2019

The Third International Workshop on coMics ANalysis, Processing and Understanding (MANPU 2019)
January 8, 2019
Thessaloniki, Greece
http://mmm2019.iti.gr/3rd-international-workshop-on-comics-analysis-processing-and-understanding-manpu-2019/

Comics is a medium constituted of images combined with text and other visual information in order to narrate a story. Nowadays, comic books are a widespread cultural expression all over the world. The market of comics continues to grow, for example, the market in Japan is about 4.25 billion USD in 2015. Moreover, from the research point of view, comics images are attractive targets because the structure of a comics page includes various elements (such as panels, speech balloons, captions, leading characters, and so on), the drawing of which depends on the style of the author and presents a large variability. Therefore, comics image analysis is not a trivial problem and is still immature compared with other kinds of image analysis.

The scope of this workshop includes, but is not limited to:
- Comics Image Processing
- Comics Analysis and Understanding
- Comics Recognition
- Comics Retrieval and Spotting
- Comics Enrichment
- Born digital Comics
- Reading Behavior Analysis of Comics
- Comics Generation
- Copy Protection – Fraud Detection
- Physical/Digital Comics Interfaces
- Cognitive Processing and Comprehension of Comics
- Linguistics Analysis of Comics

Paper submission:
The paper submission deadline is **August 27, 2018.**
You can find other important dates in Important Dates < http://mmm2019.iti.gr/important-dates/ >.
Papers submitted to MANPU 2019 must follow the regular paper submission guidelines for MMM 2019
(see Author Guidelines < http://mmm2019.iti.gr/author-guidelines/ >).
The paper submission system for MANPU 2019 will open on **August 1, 2018** in Paper Submission page < http://mmm2019.iti.gr/paper-submission >.

Datasets:
To evaluate the proposed works, participants will be able to use the following datasets that are publicly available. Researchers can request to download them at each website.
 – eBDtheque consists of 100 images with ground truth for panels, speech balloons, tails, text lines, leading characters.
 – Manga109 consists of over 20 thousand images of 109 volumes (21,142 images).

Workshop organizers:
General Co-Chair
 – Jean-Christophe Burie (University of La Rochelle, France), General Co-Chair
 – Motoi Iwata (Osaka Prefecture University, Japan), General Co-Chair
 – Yusuke Matsui (National Institute of Informatics, Japan), General Co-Chair

Program Co-Chair

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– Miki Ueno (Toyohashi University of Technology, Japan), Program Co-Chair
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– Mitsunori Matsushita (Kansai University, Japan)
– Tetsuya Mihara (University of Tsukuba, Japan)
– Naoki Mori (Osaka Prefecture University, Japan)
– Mitsuharu Nagamori (University of Tsukuba, Japan)
– Satoshi Nakamura (Meiji University, Japan)
– Nhu Van Nguyen (University of La Rochelle, France)
– Christophe Rigaud (University of La Rochelle, France)
– Yasuyuki Sumi (Future University Hakodate, Japan)
– John Walsh (Indiana University, USA)
– Yingqing Xu (Tsinghua University, China)

More information at :
http://mmm2019.iti.gr/3rd-international-workshop-on-comics-analysis-processing-and-understanding-manpu-2019/

Call for the 1st International Workshop on Reading Music Systems (WoRMS)

1st International Workshop on Reading Music Systems
Paris, France, 20. Sept. 2018
https://sites.google.com/view/worms2018/home

Call for Papers
The workshop seeks to connect researchers from the field of Optical Music Recognition with potential users. We are open for everything that is related to music, that has been written.

The relevant topics of interest for the workshop include, but are not limited to:
- Music reading systems
- Optical music recognition
- Datasets and performance evaluation
- Image processing on music scores
- Writer identification
- Authoring, editing, storing and presentation systems for music scores
- Multi-modal systems
- Novel input-methods for music to produce written music
- Web-based Music Information Retrieval services
- Applications and projects
- Use-cases related to written music

Submission
Abstract submissions should be no longer than 2 pages and will undergo light peer-review through the

OpenReview platform. The page limit should encourage high interaction and discussions during the workshop. The accepted papers will be collected in an informal proceedings that will be made publicly available. Note that you are allowed to present work that has already been submitted or recently published elsewhere.

Papers should be formatted with the style files/details available at IEEE Manuscript Templates for Conference Proceedings. Paper size is A4.

Important Dates
- Deadline for submission: **15th July 2018**.
- Papers submitted by this date will have a presentation slot, provided they are accepted.
- Submission is open until **7th August 2018**, but a presentation slot is no longer guaranteed.
- Notification of acceptance: authors will receive a notification within 2 weeks from the time of their submission
- Workshop: **20th September 2018**

General Chairs
Jorge Calvo-Zaragoza, Jan Hajič Jr., Alexander Pacha

Call for the 3rd Int. Workshop on Robust Reading (IWRR) at ACCV 2018

3rd International Workshop on Robust Reading (IWRR)
ACCV 2018, Perth, Australia
December 2, 2018 http://www.cvc.uab.es/iwrr2018/

Submission Deadline: **September 28, 2018**

The 3rd IWRR workshop will be held in Perth, Australia, in conjunction with ACCV2018.

The workshop aims at bringing together computer vision researchers and practitioners with an interest in reading systems that operate on images acquired in unconstrained conditions, such as scene images and video sequences, born-digital images, wearable camera and lifelog feeds, social media images, etc. The particular focus of the workshop is on the automatic extraction and interpretation of textual content in images, and applications that use textual information obtained automatically by such methods.

IWRR2018 invites the submission of original, previously unpublished work and welcomes re-submissions of improved versions of papers that have been rejected in the ACCV2018 conference reviewing process.

Workshop proceedings with accepted papers will be published along with the ACCV conference proceedings by Springer in the Lecture Notes in Computer Science (LNCS) series.

The topics of interest include among others:
 - Word spotting and end-to-end reading systems
 - Scene text based image retrieval
 - Joint modelling of textual and visual information
 - Text localisation, segmentation, and recognition in scene and born-digital images
 - Reading and tracking scene and/or overlaid text in video sequences
 - Robust reading applications (e.g. translation, reading text for the blind etc)
 - Performance evaluation and metrics

Visit the IWRR website for more information: http://www.cvc.uab.es/iwrr2018/

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, lopresti@cse.lehigh.edu, simone.marinai@unifi.it).

Call for papers

Event/Location/Web	Event Date	Deadline (paper submission)
ICFHR 2018, Niagara Falls, USA Int. Conf. on Frontiers in Handwriting Recognition http://icfhr2018.org/	August 5-8, 2018	--passed--
ICPR 2018, Beijing, China Int. Conf. on Pattern Recognition http://www.icpr2018.org/	August 20-24, 2018	--passed--
BMVC 2018, Newcastle upon Tyne, UK British Machine Vision Conference http://bmvc2018.org/	September 3-6, 2018	--passed--
WoRMS, Paris, France 1st Int. Workshop on Reading Music Systems (at ISMIR) https://sites.google.com/view/worms2018/home	September 20, 2018	August 7, 2018
IWRR 2018, Perth, Australia (at ACCV2018) International Workshop on Robust Reading http://www.cvc.uab.es/iwrr2018/	December 2, 2018	September 28, 2018
MANPU 2019, Thessaloniki, Greece 3rd Int. Workshop on coMics ANalysis, Processing and Understanding (at Int. Conf. on Multimedia Modeling) http://mmm2019.iti.gr/3rd-international-workshop-on-comics-analysis-processing-and-understanding-manpu-2019/	January 8, 2019	August 27, 2018 (strict)
CVPR 2019, Long Beach, USA Computer Vision and Pattern Recognition http://cvpr2019.thecvf.com/	June 15-21, 2019	November 16, 2018
ICDAR 2019, Sydney, Australia Int. Conf. on Document Analysis and Recognition http://www.icdar2019.org/	September 22-25, 2019	December 7, 2018 (abstract) December 15, 2018 (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 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

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

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