

# Newsletter

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### Message from the editor



Welcome to the May edition of TC10 newsletter.

In this edition we are pleased to announce the papers that have been accepted for the GREC 2015 LNCS Post-proceedings. Then, you will find information concerning the next call for papers and the call for Chapters: "Handwriting: Recognition, Development and Analysis" to be published by Nova. Finally, you will find the call for participation at ICFHR competitions, and the job offers at the Tokyo University of Agriculture (Japan) and Technology and the Computer Vision Center (Barcelona, Spain).

Follow us at twitter:  $\label{eq:https://twitter.com/IAPR\_TC10} https://twitter.com/IAPR\_TC10.$ 

Alicia Fornés, IAPR-TC10 Newsletter Editor.

# **Call for Contributions**

Please contribute relevant news to TC10 groups.

Please send any relevant event, notice or link to the newsletter editor : Alicia Fornes.

# GREC 2015 LNCS Post-proceedings

Eleventh IAPR International Workshop on Graphics Recognition (GREC)

http://grec2015.loria.fr/

LNCS Postproceedings

The GREC 2015 organizing committee is pleased to announce the papers that have been accepted for publication in the LNCS Post-proceedings. 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

# 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://samosyeb.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 Kaval ieratou, University of the Aegean, Greece
- Jean-Marc Ogier, Université de La Rochelle, France
- Umapada Pa , Indian Statistical Institute, India
- Athanassios Skodras, University of Patras, Greece
- Efstathios Stamatatos, University of the Aegean, Greece
- Seiichi Uchida, Kyushu University, JapanElisa Barney Smith

# Call for Chapters: "Handwriting: Recognition, Development and Analysis"

#### Call for Chapters: "Handwriting: Recognition, Development and Analysis" to be published by Nova

This book intents to present and discuss the recent advances and ongoing developments of handwriting recognition. We solicit high quality, original research, or review articles focused on the following topics:

- Handwriting Recognition Techniques
- Cursive Script Recognition
- Symbol, Equation, Sketch and Drawing Recognition
- Handwritter Document Processing and Understanding
- Computational Linguistics and Information Integration
- Handwritter Databases and Digital Libraries
- Document Characterization
- Form Processing
- Word spotting
- Bank-Check Processing
- Historical Document Processing
- Writer Verification and Identification
- Performance Enhancement and System Evaluation

### **Important Dates**

- Abstract (150-500 words): May 30, 2016.
- Complete chapter of the accepted abstracts: July 30, 2016.

The contributions to this edited book are intended to range from 4,000 to 35,000 words, around 25 pages for each chapter. If you are interested in participating, please consult the Notes for Contributors here:

https://www.rovapublishers.com/web/web\_files/ForAuthorDocuments/Notes\_for\_Contributors.pdf and submit at EasyChair http://easychair.org/conferences/?conf=handrec2016: http://bit.ly/1Rw6rGM.nova.main@novapublishers.com

The book will be published in about 6-9 months after the close of the volume. As soon as a book is listed on our Website, the codes in the status field will indicate the production stages through publication cycle.

### Editors

- Prof. Dr. Alejandro H. Toselli, Universitat Politècnica de València (Spain) ahector@prhlt.upv.es
- Prof. Dr. Byron L. D. Bezerra, Universidade de Pernambuco (Brazil) byronleite@ecomp.poli.br
- Prof. Dr. Cleber Zanchettin, Universidade Federal de Pernambuco (Brazil) cz@cin.ufpe.br
- Prof. Dr. Giuseppe Pirlo, Università degli Studi di Bari (Italy) giuseppe.pirlo@uniba.it

# **About Nova**

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https://www.rovapublishers.com/web/web\_files/ForAuthorDocuments/Testimonials.pdf

### ICFHR 2016 competitions: Call for participation

International Conference on Frontiers in Handwriting Recognition

Shenzhen, China October 23-26, 2016 http://www.nlpr.ia.ac.cn/icfhr2016/

The 15th International Conference on Frontiers in Handwriting Recognition (ICFHR2016, http://www.nlpr.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 <a href="http://www.nlpr.ia.ac.cn/icfhr2016/competitions.htm">http://www.nlpr.ia.ac.cn/icfhr2016/competitions.htm</a> 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://orflamms.hypotheses.org/1388

Contact: dominique.stutzmann@irht.cnrs.fr

2. ICFHR2015 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 Valy, I Made Gede Sunarya

URL: http://amadi.univ-lr.fr/ICFHR2016\_Contest/

Contact: 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

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

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

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: ipratika@ee.duth.gr

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

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

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

Contact: ipratika@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

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

# Job offer: Associate Professor - Tokyo University of Agriculture and Technology

A tenure-track associate professor position is available at Tokyo University of Agriculture and Technology. Area name is: Cognitive Interactive Technology,

Related with:

- (1) Data Engineering,
- (2) Media Information Processing,
- (3) Machine Learning,
- (4) Pattern Recognition.

https://jrecin.jst.go.jp/seek/SeekJorDetail?

D01A9990=30A3079FDDAFD866D3418515F39CFA88&fn=4&dt=1&id=D116030987&ln\_jor=1

If you are interested in the position, please e-mail to Prof. Masaki Nakagawa at nakagawa@cc.tuat.ac.jp

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

Call for Applications: Marie-Curie Fellowship at the Computer Vision Center (Barcelona, Spain)

The Computer Vision Centre opens six Marie Curie fellowships on different areas of Computer Vision, with the objective to incorporate researchers with a strong international and intersectoral component.

The P-SPHERE project is coordinated by the Universitat Autonoma de Barcelona with the participation 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.

Information on the Marie-Curie Fellowships:

http://www.uab.cat/web/research/p-sphere/introduction-1345688666835.html

#### Candidate's Profile

- Applicants must hold a PhD in computer science or a related field.
- They must not have resided or carried out their main work/studies activity in Spain for more than twelve months in the three years immediately prior to the call deadline.
- The applicants are expected to have experience in pattern recognition and machine learning techniques, and be able to demonstrate strong analytical and programming skills.
- The applicants should be fluent in oral and written communication in English. They should work well in a team, while demonstrating initiative and independence.

# The call will open on September 2016

The two fellowships advertised here are linked to the Document Analysis Group (DAG):

- 1. Robust Reading
- 2. Historical Document Image Analysis

# \*\*\*\*\* POSITION 1 \*\*\*\*\*

Marie Curie Fellowship on Robust reading

The fellowship is linked to the robust reading and machine learning research groups. The successful applicant is expected to align his research to the research line on holistic interpretation of urban scene imagery.

The goal of this research line is to automatically learn models (i.e. meanings) to which experiences (i.e. images and video from wearable devices or from social media streams) can be associated. The selected candidate is expected to align his research to the research line on holistic interpretation of urban scene imagery, investigating techniques for automatic interpretation of indoor and outdoor urban scenes. Of particular interest is the interplay between visual and textual content in a scene image, and to what extent such modalities can work synergistically towards urban scene imagery interpretation.

To achieve this goal, contextual information should be modelled over distinct context spaces that include textual cues, visual cues and interpretation of user behaviour. The Fellow could work, for example, on a single inference model in which these separate elements serve as mutual context to each other.

#### Research contact

- Dimosthenis Karatzas dimos@cvc.uab.es

# \*\*\*\*\* POSITION 2 \*\*\*\*\*

Marie Curie Fellowship on Historical Document Image Analysis

Digital human ties are an emerging topic. The automatic extraction of information from scanned documents stored in archives and libraries of any modality (printed or handwritten text, graphics) is a challenge. The use of context is very important in improving the recognition, especially when it is handwritten. The structure of objects, language models both for textual and graphical contents is a kind of syntactic context. There is also another context, the semantic context provided by users which encompasses new modalities of user interaction (sketching interface, collaborative annotation platforms).

The aim of the project is summarized with the following objectives.

- To develop models for indexing and cross-linking visual terms in large scale document collections.
- Context aware recognition: to include syntactic and semantic context in recognition and retrieval architectures.
- To construct an advanced collaborative and tangible interface architecture and validate with end users.

He/she will wdrk in current projects in collaboration with archives on the interpretation of historical manuscripts (not exclusively) such as demographic documents, hand written musical scores, maps, etc.

### Research contact

- Alicia Fornes afornes@cvc.uab.es
- Josep Lladós josep@cvc.uab.es

# IWRR 2016: Call for papers

# 2nd International Workshop on Robust Reading

(in conjunction with ECCV 2016)

October 8,9, dr 16 (TBC), 2016, Amsterdam, The Netherlands

www.cvc.uab.es/IWRR2016

IWRR 2016 is the succession of the 1st IWRR workshop that was held in Singapore as a satellite workshop of ACCV 2014. IWRR 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.

The workshop aims to offer a forum for researchers to share experiences and latest results in the area, and to discuss current trends and the evolution of the Robust Reading Competition (RRC) which has attracted to date over 1,500 researchers and more than four thousand submissions. Reporting recent results on standard datasets such as the ICDAR RRC 2015 dataset on incidental

scene text or the Coco-Text dataset is particularly encouraged.

All submitted papers will be reviewed by at least three members of the programme committee. Paper acceptance will be based on originality, novelty, technical soundness, and clarity of presentation. Proceedings for all ECCV 2016 workshops will be published with Springer.

Fresh paper submissions as well as re-submissions of improved versions of rejected ECCV / ACM Multimedia papers (submitted along with the original reviews) are welcome. The topics of interest include among others:

- Scene text localisation, segmentation, and recognition
- Reading scene and/or overlaid text in video sequences
- Word spotting
- End-to-end reading systems
- Text localisation and recognition in born-digital images
- Restoration of camera captured paper documents
- Quality estimation and degradation modelling of camera-captured text
- Performance evaluation and metrics
- Robust reading applications
- Graphical content interpretation in complex settings

#### **Important Dates**

- Submission deadline: June 20, 2016
- Deadline for resubmitted ECCV / ACM Multimedia papers: July 7, 2016
- Author Notification : July 11, 2016
- Camera Ready: July 24, 2016

### **Workshop Chairs**

- D. Karatzas (Spain) - M. Iwamura (Japan) (Czech Republic) - 1. Matas - P.S. Kompal (India)
- F. Shafait (Pakistan)

### **Programme Committee**

- J. Almazan (France) - A.D. Bagdan (Italy)
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- R. Smith
- S. Uchida (Japan) - E. Valveny (Spain)
- J. Weinman (USA)
- X.-C. Yin (China)
- H. Yu

# MedPRAI 2016: Call for papers

### 1st Mediterranean Conference on Pattern Recognition and Artificial Intelligence

November 22 - 23, 2016, Tebessa, Algeria

http://medprai2016.sciencesconf.org

It is with great pleasure that we invite you to the 1st Mediterranean Conference on Pattern Recognition and Artificial Intelligence. The conference is organized by the Department of Mathematics and Computer Science, Larbi Tebessi University and will be held in Tebessa, Algeria on November 22-23, 2016. The conference aims to provide an interdisciplinary forum for discussions on recent advancements in different areas of pattern recognition and artificial intelligence.

Topics of interest scope all related subareas including but not limited to the following.

### Track 1: Pattern Recognition

- Handwriting analysis and recognition
- Biometrics applications
- Pattern recognition & applications
- Image, speech, signal and video processing
- Machine learning and data mining
- Computer v sion
- Robotics and perception
- Virtual reality & medical applications

# Track 2: Artificial Intelligence

- Natural language processing
- Automated reasoning and inference
- Knowledge representation and reasoning
- Constraint processing
- Heuristic search
- Intelligent interfaces
- Multi-agent Systems
- Deep learning

All submitted papers will be reviewed by at least 2 members of the international program committee; additional reviewers will be consulted if needed. Paper acceptance will be based on originality, significance, technical soundness, and clarity of presentation.

It is planned to publish the proceedings with Springer in their Communications in Computer and Information Science (CCIS) series (final approval pending).

#### **Important Dates**

- Paper Submission: May 27, 2016.
- Author Notification: August 26, 2016.
- Camera-ready Paper/Registration: September 9, 2016.
- Conference Dates: November 22-23, 2016.

### **Endorsed by**

The International Association or Pattern Recognition (IAPR).

#### Organizers

Larbi Tebessi University, Tebessa, Algeria.

Bahria University, Islamabd, Pakistan.

Laboratory of Mathematics, Informatics and Systems, Tebessa, Algeria.

# DATeCH: Call for papers

# International Conference on Digital Access to Textual Cultural Heritage

Poznan (Poland), 6-7 October, 2016

http://ddays.digitisation.eu/datech-2016/

The DATeCH international conference brings together researchers and practitioners looking for innovative approaches for the creation, transformation and exploitation of historical documents in digital form.

The conference aims to foster interdisciplinary work and linking together participants engaged in the following areas :

- Text digitization and OCR.
- Digital humanities.
- Image and document analysis.
- Digital libraries and library science.
- Applied computational linguistics.
- Crowdsourcing.
- Interfaces and human-computer interaction.

Topics of interest are all those related to the practical and scientific goals listed above, such as:

- OCR technology and tools for minority and historical languages.
- Methods and tools for post-correction of OCR results.
- Automated quality control for mass OCR data.
- Innovative access methods for historical texts and corpora.
- Natural language processing of ancient languages (Latin, Greek).
- Visualization techniques and interfaces for search and research in digital humanities.
- Publication and retrieval on e-books and mobile devices.
- Crowdsourcing techniques for collecting and annotating data in digital humanities.
- Enrichment of and metadata production for historical texts and corpora.
- Data created with mobile devices.
- Data presentation and exploration on mobile devices.
- Ontological and linked data based contextualization of digitized and born digital scholarly data resources.

The conference will take place in the Poznań Supercomputing and Networking Center (Poznań, Poland), in the framework of the Digitisation Days (6-7 October, 2016).

# Important dates

- 16 May 2016 Paper submission deadline
- 30 June 2016 Decision notification
- 31 July 2016 Camera-ready papers due
- 6-7 October 2016 Conference

# ICFHR 2016: Call for papers

# International Conference on Frontiers in Handwriting Recognition

Shenzhen, China

October 23-26, 2016

http://www.nlpr.ia.ac.cn/icfhr2016/

The International Conference on Frontiers of Handwriting Recognition (ICFHR), formerly called International Workshop on Frontiers of Handwriting Recognition (IWFHR), is the most important event in the field of handwriting recognition. The aim of this conference is to bring together international experts from academia and industry to share their experiences and to promote research and development in all aspects of handwriting recognition and applications.

#### **Topics of Interest**

Include, but are not limited to:

- Handwriting Recognition Techniques
- Cursive Script Recognition
- Symbol, Equation, Sketch and Drawing Recognition
- Handwritten Document Processing and Understanding
- Language Models in Handwriting Recognition
- Web-Based Applications
- Handwritten Databases and Digital Libraries
- Information Extraction & Retrieval
- Document Characterization
- Form Processing
- Word Spotting
- Bank-Check Processing
- Historical Document Processing
- Forensic Studies and Security Issues
- Writer Verification and Identification
- Performance Enhancement and System Evaluation
- Electronic Ink and Pen-Based Systems

### **Important Dates**

- Paper submission: May 14, 2016 (extended)
- Notification: July 15, 2016
- Camera ready: August 15, 2016

### Summer \$chools

	Event Date	Deadline (registration)
TC10/TC11 Summer School 2016, India First TC10/TC11 Summer School on Document Analysis	January, 2016	soon
IDIPS 2016, Samos Island, Greece International Document Information Processing School http://samosweb.aegean.gr/idips2016/	July 4-8, 2016	May 31, 2016 (late registration)
CVSS 2016, \$wansea, UK BMVA Computer Vision Summer School http://cvss.swansea.ac.uk/cvss2016/	July 4-8, 2016	May 6, 2016

# Call for papers

Event/Location/Web	Event Date	Deadline (paper submission)
BMVC 2016, York, UK British Machine Vision Conference http://bmvc2016.cs.york.ac.uk/	September 19-22, 2016	May 13, 2016 (extended !)
ICFHR 2016, Shenzhen, China Int. Conf. on Frontiers in Handwriting Recognition	October 23-26, 2016	May 14, 2016 (extended !)

http://www.npr.ia.ac.cn/icfhr2016/		II II II II
DATECH 2016, Poznan, Poland Digital Access to Textual Cultural Heritage http://ddays.digitisation.eu/datech-2016/	6-7 October 2016	May 16, 2016
MEDPRAI 2016, Tebessa, Algeria 1st Mediterrahean Conf. on Pattern Recognition and Artificial Intelligence http://medprai2016.sciencesconf.org/	November 22-23, 2016	May 27, 2016
S+SSPR 2016 (ICPR Workshop), Mérida, Mexico Int. Workshops on Structural and Syntactic Pattern Recognition and Statistical Techniques in Pattern Recognition http://www.s-sspr.org/	Nov. 30 - Dec. 2, 2016	May 31, 2016
ICVGIP 2016, Guwahati, India Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP) http://www.iitg.ernet.in/icvgip2016/	ii '	July 8, 2016 (abstracts) July 15, 2016 (full paper)
IWRR 2016, Amsterdam, The Netherlands Int. Workshop on Robust Reading (in conjunction with ECCV) http://www.cvc.uab.es/iwrr2016/?c=home	October 8,9 or 16, 2016	June 20, 2016

# 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

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