

# Newsletter 60, November 1999

Newsletter of the IAPR Technical Committee on Graphics Recognition (TC10)  
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TC10 News #60

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Dear TC10 members and friends,

Welcome to issue #60 of TC10 News.

First and foremost, I apologize for the long delay between this issue of TC10 News and the last. Over the last few months, all my spare time was taken up in organizing the GREC'99, the primary workshop of this TC. Now that GREC'99 is over, I will send out the TC10 newsletter more frequently.

The submission deadlines for the following conferences/workshops are fast approaching: ICPR 2000, CVPR 2000, Vision Interface 2000, and SPR + SSPR 2000. See the calls for papers below.

Below is some information on the just concluded GREC'99, extra copies of GREC'99 proceedings, the next GREC workshop, and the Graphics Recognition Contest.

GREC'99, Jaipur, India, September 26-27, 1999

The Third IAPR International Workshop on Graphics Recognition (GREC'99), the primary workshop organized by IAPR TC10, was held in Jaipur, India, in September 1999. GREC'99 immediately followed the ICDAR'99 conference. I will include a formal report on GREC'99 in the next issue of TC10 News. For now, you can visit the GREC'99 web site (<http://www.iapr-tc10.or.kr/grec99/>) for some photographic memories of the workshop. I thank the participants, most of whom travelled a very long distance, for making the workshop a success.

At present, we are working on the post workshop collection of refereed papers in the Springer LNCS series.

It was encouraging to see many new faces at GREC'99. Welcome to all the new members of TC10!

Extra Proceedings of GREC'99

About 30 copies of the GREC'99 workshop are available for sale. If you wish to order a copy, please visit the GREC'99 web site <http://www.iapr-tc10.or.kr/grec99/> and follow the link "Order Proceedings."

GREC 2001

At the GREC workshop in Jaipur, it was decided that the next workshop on Graphics Recognition will be organized by Dorothea Blostein (Queen's University, Kingston, Ontario, Canada). Further details, including the venue and the dates of the workshop, will be announced later.

Graphics Recognition Contest

The graphics recognition contest scheduled to be held at the GREC'99 workshop could not take place due to the large amount of work required in preparing real test images and the ground truth data. We are continuing work in this area. We will test the participating raster to vector conversion software systems off-line and will present the results of the contest at ICPR 2000.

Now to the regular announcements.

-Atul

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> From: ICPR2000 <[icpr2000@cvc.uab.es](mailto:icpr2000@cvc.uab.es)>  
> Subject: CFP: ICPR 2000, Barcelona, Spain

15th INTERNATIONAL CONFERENCE ON PATTERN RECOGNITION  
Hotel Barcelo Sants  
Barcelona, Catalonia, Spain  
3-8 September 2000  
<http://www.cvc.uab.es/ICPR2000>

ICPR2000 will be an international forum for discussion on recent advances in the fields of Computer Vision, Pattern Recognition, Neural Networks, Image, Speech and Signal Processing and Robotics, as well as on their applications. Participants will have the opportunity to attend highly specialised presentations and to meet colleagues from the above fields. In addition, Barcelona offers a combination of history and modern convenience for attendants to enjoy from the Gothic Quarter, Picasso Museum, or Gaudi's Guell Park and Sagrada Familia to the more recent Olympic Ring or the Maremagnum.

Paper Submission Deadline: December 1st, 1999  
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#### PAPER SUBMISSION

Authors are requested to submit their papers before December 1st, 1999. To submit a paper you have to register it on the web site at

<http://www.cvc.uab.es/ICPR2000/psubmission/psubmission.html>

by filling out all the requested information including the paper abstract (about 150 words). Additionally, you have to send by post a paper copy of this abstract registration page and four DIN A4 copies of the full paper to the secretariat address:

ICPR'2000 Secretariat  
OTAC, S.A.  
Gran Via Corts Catalanes, 454 - 1  
08015-Barcelona (Spain)

Papers must be written in English with a maximum extension of 4 pages and omitting authors names and affiliation. Paper formats and style files will be available at the above web address.

#### CALL FOR CONTEST PARTICIPATION

ICPR2000 offers the possibility to participate in several competitions of algorithms and techniques. More information will be available in the Contest section of the Conference web site (<http://www.cvc.uab.es/ICPR2000>). Results of each contest will be published as a paper in the conference proceedings.

#### TUTORIALS

ICPR'2000 invites you to send proposals for the Tutorial Program. Tutorials will be held on September 3rd, 2000 immediately before the start of the main conference. Tutorials will be offered both on standard topics and on new and more advanced topics.

Those interested in presenting a tutorial should submit a proposal to the ICPR'2000 Tutorial Chair, Prof. Joan Climent ([climent@esaii.upc.es](mailto:climent@esaii.upc.es)) before February 1st, 2000. A tutorial proposal should contain the following information:

- A brief description of the tutorial. It has to be suitable for inclusion in the conference registration brochure.
- A detailed outline of the tutorial.
- Necessary background and potential target audience for the tutorial.
- A brief resume of the presenter(s), which should include name, postal address, phone and fax numbers, e-mail address if available, background in the tutorial area and any available example of work in the area (ideally, a published tutorial-level article on the subject).

Those submitting a proposal should keep in mind that tutorials are intended to provide an overview of the field; they should present reasonably well established information in a balanced way.

#### WORKSHOPS

ICPR'2000 promotes the organization of workshops on specific topics in the previous or later days of the conference. Those interested in organising a workshop near Barcelona during these days should contact Prof. M. Ines Torres ([manes@we.lc.ehu.es](mailto:manes@we.lc.ehu.es)) who will coordinate and support these events.

> Subject: CFP: CVPR 2000, Hilton Head Island, SC, USA

IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR 2000), Hilton Head Island, South Carolina, June 13-15, 2000.

Submission Deadline: November 29, 1999  
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<http://cvpr2000.cs.uiuc.edu/>

> From: VI2000 Conference <[vi2000@athena.mcgill.ca](mailto:vi2000@athena.mcgill.ca)>  
> Subject: CFP: Vision Interface 2000, Montreal, Canada

Call for papers: Vision Interface 2000  
& co-located conferences

Vision Interface is a Canadian Conference with International representation. Its focus includes issues of vision, image processing and machine perception. It will take place May 14-17 in Montreal and be co-located with several other conferences including the International Symposium on Robotics, the oldest running robotics conference. We also anticipate a full slate of exciting invited speakers.

Contributions describing original and unpublished research results are solicited.

The paper deadline for Vision Interface 2000 is November 26th, 1999.  
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For a complete description of the conference and the call for papers, visit the web page at

<<http://www.cim.mcgill.ca/vi2000>>

For information on the International Symposium on Robotics, Graphics Interface, Artificial Intelligence 2000, the IRIS conference, the machine tools show, or the robotic show, please visit

<<http://www.precarn.ca/isr2000>>

> From: [ssspr2000@ua.es](mailto:ssspr2000@ua.es)  
> Subject: CFP: SSPR'2000 and SPR'2000, Alacant, Spain

JOINT IAPR INTERNATIONAL WORKSHOPS ON  
Syntactical and Structural Pattern Recognition (SSPR'2000)  
and  
Statistical Pattern Recognition (SPR'2000)

Alacant, Spain, 30 August - 1 September 2000

The International Association for Pattern Recognition (IAPR) and its technical committees on Statistical Pattern Recognition (TC1) and Syntactical and Structural PR (TC2) are organising a Joint workshop prior to the next ICPR in Barcelona. The workshop aims at promoting interaction and collaboration not only among researchers working directly in the areas covered by TC1 and TC2 but also among those specialized in other fields but using or developing statistical, syntactic or structural techniques. In this relation it is of particular interest to encourage links with mathematical statisticians, theoreticians and practitioners alike who work at present outside the pattern recognition community.

Submission deadline for SSPR and SPR 2000: December 10, 1999  
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More details please see the web site: <http://www.dlsi.ua.es/ssspr2000>

> From: Lambert Schomaker <[schomaker@nici.kun.nl](mailto:schomaker@nici.kun.nl)>  
> Subject: CFP: IWFHR 2000, Amsterdam, the Netherlands

Seventh International  
Workshop on Frontiers  
in Handwriting Recognition  
IWFHR-7

11-13 September 2000  
Amsterdam, The Netherlands

CALL FOR PAPERS

Chairmen: We are pleased to announce the 7th IWFHR, which will take place 11-13 September 2000 L. Schomaker & S. in Amsterdam, The Netherlands (in the week Impedovo after the ICPR'2000 in Barcelona). The IWFHR series of conferences aims at Program Committee: providing a platform for researchers in the areas of on-line and off-line recognition Andras Kornai (USA) of handwriting, in the area of pen-based Andreas Hennig (GER) interface development and systems for the Andrew Downton (UK) processing of handwritten documents and Angelo Marcelli (Italy) forms in all languages. The program Bernadette Dorizzi (FR) committee invites the submission of papers Ching Y. Suen (Canada) for inclusion in the conference. All Claudie Faure (France) accepted papers will be published in the Daniel Lopresti (USA) conference proceedings and the authors of Fang-Hsuan Cheng (Taiwan) accepted papers will be invited to present Giovanni Seni (USA) their work in the form of oral Graham Leedham (Singapore) presentations or posters. Greg Hullender (USA) Guy Lorette (France) A number of themes have been defined for Hans Dolfing (Germany) the 7th IWFHR: Jochen Gloger (Germany) Jonathan Hull (USA) \* multiple-source information Josef Kittler (UK) integration Juergen Franke (Germany) \* multiple-agent technology in pattern Kazuhiko Yamamoto (Japan) recognition Lambert Schomaker (NL) \* recognition and interactivity in small Lindsay Evett (UK) mobile systems Louis Vuurpijl (NL) \* handwriting recognition in multimedia Mal Shridhar (USA) \* pen-based systems and multimedia Marc Parizeau (Canada) \* high-performance off-line recognition Markus Schenkel (Switzerland) systems Masaki Nakagawa (Japan) \* benchmarking methodology and Michael Fairhurst (UK) performance evaluation Michel Gilloux (France) Michel Weinfeld (France) Program Chairs Paul Gader (USA) ===== Rejean Plamondon (Canada) dr. L.R.B. Schomaker (NICI, NL) Sargur Srihari (USA) prof. S. Impedovo (Univ. Bari,IT) Sebastiano Impedovo (Italy) Seong-Whan Lee (Korea) Submission Simon Lucas (UK) ===== Torsten Caesar (Germany) 10-page full papers. A LaTeX style will Venu Govindaraju (USA) be provided Yannis Dimitriadis (Spain) Young-Bin Kwon (Korea) Important dates ===== Submission deadline: Jan. 15th, 2000 Notification of acceptance: Apr. 3rd, 2000 Address ===== 7th IWFHR Secretariat Nijmegen University/NICI P.O.Box 9104 6500 HE Nijmegen The Netherlands \* Website: <http://hwr.nici.kun.nl/7th.iwfr.2000/> \* Venue: Golden Tulip Barbizon Palace, Amsterdam

> From: [jonathon@nist.gov](mailto:jonathon@nist.gov)  
> Subject: CFP: EEMCV 2000, Empirical Evaluation Methods in CV, Dublin, Ireland

#### ANNOUNCEMENT AND CALL FOR PAPERS

Second Workshop on  
Empirical Evaluation Methods in Computer Vision

In Conjunction with ECCV 2000, June 2000 -- Dublin, Ireland

#### MOTIVATION

In order for computer vision to mature from both scientific and industrial points of view, we must have objective methods for evaluating algorithms. Towards this end, we are organizing the the Second Workshop of Empirical Evaluation of Methods in Computer Vision. As with the first workshop, one of the goals of the workshop is to bring together researchers in the computer vision community to present papers and discuss methods for empirical evaluation of vision algorithms. We hope to foster interaction and discussion on this subject, and to learn from related fields that have successfully used empirical evaluation methods. Read a report about the first evaluation workshop at CVPR'98.

#### PROGRAM

The workshop program will include tutorials, invited speakers, and presentations of contributed papers. The emphasis for the invited speakers will be on methods for statistically analyzing performance results; i.e., when is the difference in performance between two algorithms statistically significant.

Contributed papers will be reviewed based on content relevant to the theme of the workshop, with an emphasis on sound empirical methods and

results. Relevant topics include, but are not limited to:

methods / tools / databases for performance evaluation,  
empirical comparison of different algorithms for vision problems,  
evaluation of medical imaging algorithms in clinical settings,  
evaluation of algorithms for industrial applications,  
and statistical analysis of algorithm performance results.

#### PAPER SUBMISSION

Papers should be submitted no later than 1 February 2000. Submission are to be made electronically. Each submission should have a cover page which includes the address, phone number, fax number, and e-mail address of the corresponding author. Papers are limited to 25 double-spaced pages (12 pt, 1 inch margins), including figures, references, etc. Accepted papers will be published as part of an edited book or in a proceedings volume.

URL:

[http://www.itl.nist.gov/iaui/vip/2eecv/2nd\\_eval\\_methods.html](http://www.itl.nist.gov/iaui/vip/2eecv/2nd_eval_methods.html)

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> Subject: CFP: DAS2000, Rio de Janeiro, Brazil

The Fourth IAPR International Workshop on Document Analysis Systems (DAS2000)  
December 10-13, 2000 - Rio de Janeiro, Brazil  
<http://www.utp.br/das2000>

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> Subject: CFP: IJDAR Sepcial Issue on Graphics Recognition

#### IJDAR SPECIAL ISSUE CALL FOR PAPERS

Graphics Recognition: Enabling Machines  
to Understand Line Drawings and Symbols

With the acceleration of options to convert paper documents into digital ones, the need for advanced graphics recognition technologies is on the rise, so as to take full advantage of the semantics conveyed by the graphics as an important and frequently the crucial part of a document or scene.

This special issue of IJDAR is devoted to graphics recognition. The papers to be included in this issue will provide a broad perspective of state-of-the-art graphics recognition technologies, systems and techniques and their relation to document understanding and computer vision/pattern recognition.

Areas covered may include, but are not limited to:

Basic Techniques: Vectorization; Shape recognition; Graphics/text separation; Symbol recognition.

System Approaches: Graphics recognition; Generic graphics recognition and reusability; Patterns and frameworks in graphics recognition; Incorporating graphics recognition into document analysis systems.

Applications: Graphics Recognition over the Internet: Principles, requirements and uses; Applications to E-commerce; Content-based image retrieval. Line drawing understanding: Maps, cartography and GIS; Engineering drawings; Diagrams and schemas; Utility drawings. Non-textual symbol-based languages: Music, Chemistry, and Mathematics. Robotics and navigation: Fiducial recognition for indoor industrial and home applications; AGV homing through graphics recognition. Outdoor applications: Traffic sign recognition; Car plate recognition; Intelligent highway applications.

Electronic Submission of Manuscripts: Please submit your manuscript electronically in PDF format, through the IJDAR Electronic Submission Page by March 31, 2000.

Deadlines:

Preliminary Abstract: ASAP  
Full paper: March 31, 2000  
Editors' Decisions: May 30, 2000  
Final Manuscript Due: June 30, 2000  
Tentative Publication Date: September 2000

#### GUEST EDITORS:

Dov Dori ([dori@ie.technion.ac.il](mailto:dori@ie.technion.ac.il))  
Faculty of Industrial Engineering and Management  
Technion, Israel Institute of Technology  
Haifa 32000  
ISRAEL

Karl Tombre ([Karl.Tombre@loria.fr](mailto:Karl.Tombre@loria.fr))  
LORIA-INPL

Campus scientifique, B.P. 239  
54506 Vandoeuvre-l?-Nancy CEDEX  
FRANCE

Atul K. Chhabra ([atul@basit.com](mailto:atul@basit.com))  
Bell Atlantic Network Systems,  
Advanced Technology  
500 Westchester Avenue  
White Plains, NY 10604  
USA

Other upcoming IJDAR special issues include Document Analysis for Office Systems and Performance Evaluation. For more information on this and other IJDAR special issues, see <http://ijdar.cfar.umd.edu>

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> From: Luc Vincent <[lvincent@parc.xerox.com](mailto:lvincent@parc.xerox.com)>  
> Subject: Call for Participation: Math. Morphology & its apps, Palo Alto, USA

INTERNATIONAL SYMPOSIUM ON MATHEMATICAL MORPHOLOGY and its Applications to Image and Signal Processing (ISMM 2000), June 26-28, 2000, Palo Alto, California, USA.

This symposium is the fifth in a series of international workshops devoted to the area of mathematical morphology and its applications in image and signal processing. The scientific program will include invited talks and contributed papers. The size of the workshop will be limited in order to enable interaction between the participants.

Please visit the official ISMM 2000 site at:

<http://www.parc.xerox.com/ismm2000>

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> From: Dan Lopresti <[dpl@research.bell-labs.com](mailto:dpl@research.bell-labs.com)>  
> Subject: Call for Participation: Doc. Recog. and Retrieval VII, San Jose, USA

Document Recognition and Retrieval VII

Wednesday-Thursday 26-27 January 2000  
Part of IST/SPIE's 12th Annual International Symposium on Electronic Imaging  
San Jose Convention Center  
San Jose, California, USA  
<http://www.spie.org/info/ei>

Conference Chairs: Daniel P. Lopresti, Lucent Technologies/Bell Labs.;  
Jiangying Zhou, Summus Technologies, Inc.

Sessions include:

- OCR Techniques
- Non-English OCR
- Document Image Processing
- Equations, Forms, and Drawings
- Evaluation
- Document Categorization
- Document Archiving and Retrieval
- Segmentation and Compression

The detailed program for this conference can be found at:

<http://www.spie.org/info/ei>

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> From: George Nagy <[nagy@ecse.rpi.edu](mailto:nagy@ecse.rpi.edu)>  
> Subject: Book Announcement: OCR: An illustrated guide to the frontier

OPTICAL CHARACTER RECOGNITION: An Illustrated Guide to the Frontier

Stephen V. Rice, George Nagy, Thomas A. Nartker

The Kluwer International Series in Engineering and Computer Science  
Kluwer Academic Publishers, 1999 (194 pages, hardcover)

Optical character recognition (OCR) is the most prominent and successful example of pattern recognition to date. There are thousands of research papers and dozens of OCR products. This book offers a perspective on the performance of current OCR systems by illustrating and explaining actual OCR errors. The pictures and lighthearted analysis provide insight into the strengths and weaknesses of current OCR systems, and a road map to future progress.

The first chapter compares the character recognition abilities of humans and computers. The next four chapters present 280 illustrated examples of recognition errors, in a taxonomy consisting of Imaging Defects, Similar Symbols, Punctuation, and Typography. These examples were drawn from large-scale tests conducted by the authors. The final chapter discusses possible approaches for improving the accuracy of

today's systems, and is followed by an annotated bibliography.

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That's all for now. To my US friends, wish you happy thanksgiving holidays.

Your TC10 chairman.

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Atul K. Chhabra Phone: (914)644-2786  
Bell Atlantic Network Systems, Fax: (914)644-2561  
Advanced Technology Email: [atul@basit.com](mailto:atul@basit.com)  
500 Westchester Avenue  
White Plains, NY 10604, USA

TC10 WWW URL: <http://www.iapr-tc10.or.kr/>  
TC10 member enrollment: <http://www.iapr-tc10.or.kr/membership/>  
TC10 News submissions to: [atul@basit.com](mailto:atul@basit.com)