

# Newsletter 56, July 1998

TC10 News #56

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CFP: CVIU Special Issue on Robust Statistical Techniques in Image Understanding  
CFP: IEEE Trans IP, Special Issue on Image & Video Proc. for Digital Libs.  
CFP: IJPRAI Special Issue on Invariants for PR and Classification  
CFP: Journal of Visual Languages and Computing

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Call for Participation: ACM GIS'98, Washintgon, D.C.

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Dear TC10 members and friends,

Welcome to issue #56 of TC10 News.

It was nice meeting many of you at SSPR/SPR'98 and ICRP'98.

This issue of TC10 News begins with a summary of the formal TC10 meeting which was held at ICRP'98 in Brisbane. Next, there is the official Call for Papers for the TC10 workshop on Graphics Recognition. The print version of this CFP has already appeared in IEEE Transactions on PAMI. It will also be appearing a few other places soon. I hope a lot of you will submit to this workshop and to ICDAR'99, and will take this opportunity to visit India.

The rest of the TC10 News contains several call for papers for workshops, conferences, and journal special issues in computer vision and related areas. Of particular interest is the Conference on Automated Extraction of GIS Objects from Digital Imagery. This conference spans the fields of GIS, computer vision, and graphics recognition.

-Atul

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>From: [atul@basit.com](mailto:atul@basit.com) <Atul Chhabra>  
>Subject: TC10 Meeting at ICRP'98, Brisbane

The formal biennial meeting of IAPR TC10 (Graphics Recognition) was held during ICRP'98 in Brisbane. Below is the outline of my power point slides for the meeting.

o IAPR TC10 on Graphics Recognition

- Areas of Interest
- Recap of the past two years
- Plans for the future

o Areas of Interest

- Raster-to-vector techniques
- Recognition of graphical primitives, shapes and symbols
- Analysis and interpretation of engineering drawings, logic diagrams, maps, diagrams, charts, etc.
- Analysis of line drawings, tables, forms etc.
- Graphics-based information retrieval
- Performance evaluation
- Complete systems

o TC10 Web Site

- <http://www.iapr-tc10.or.kr/>

- Information on activities of TC10
- Information on GREC workshops and contests
- Pointers to related conferences
- Archives of TC10 News
- List of commercial products

o TC10 Mailing List

- 260 members worldwide
- TC10 news distributed once every two months
- Includes information about upcoming conferences and workshops and other news of interest to members
- The news is archived on the web site

o GREC'97, Nancy, France

- Held August 22-23 at INRIA-Lorraine
- Co-chairs Karl Tombre and Atul Chhabra
- 60 participants from 16 countries
- + France 15, USA 15, Japan 7
- + Academic Institutions 40, Industry 20
- Six sessions, each session included:
  - + a survey talk
  - + short presentations
  - + panel discussion

o Second International Graphics Recognition Contest

- Co-organizers: Ihsin Phillips and Atul Chhabra
- Contest on Raster to Vector Conversion
- Developed metrics for performance evaluation
- Software to render CAD drawings into raster images in a controlled manner
- Vector file format specification
- Training and test images with ground truth
- Three participants
  - + MDUS (Dori and Wenyin)
  - + I/Vector from Graphikon, Germany
  - + VPStudio from Softelec, Germany
- Performance evaluation protocol and report on contest published in the post-workshop book

o Open Problems (in raster to vector conversion)

o Post Workshop Book

- Post workshop book with refereed and enhanced submissions
- Graphics recognition--Algorithms and Systems, Editors: Karl Tombre and Atul Chhabra, volume 1389 of Lecture Notes in Computer Science, Springer-Verlag, April 1998, ISBN: 3-540-64381-8

o Social Events at GREC'97

o TC10 Co-sponsored Events

- ICDAR'97, August 1997, Ulm, Germany
- + Co-sponsored with TC11
- + Was held just prior to GREC'97

o Future Activities

- GREC'99, September 26-27, Jaipur, India
- Graphics Recognition Contest at GREC'99
- ICDAR'99, September 20-22, Bangalore, India
- Web site overhaul with less text per page and more navigational aids and search tools
- To obtain mailing address of members through the web site
- Evaluation of vectorization methods, algorithms, and implementations using the work done for the contest (suggested by Karl Tombre)
- Seeking volunteers to organize future contests in other areas of graphics recognition
  - + Symbol recognition
  - + 3D models from 2D views (line drawings)

o GREC'99, Jaipur, India

- Rambagh Palace Hotel
- September 26-27, 1999
- Immediately following ICDAR'99

o Rambagh Palace Hotel

- 100+ rooms
- Very good conference and banquet facilities
- Picturesque surroundings
- Close to the tourist attractions of Jaipur

o See you at GREC'99 in Jaipur

Here are some suggestions from meeting participants.

- People suggested to reduce the length of TC10 News mailings. (I have tried to reduce the length of this issue of TC10 news by simply omitting the program committee listings from all calls for papers. I could trim further, but then one would have to pretty much rely on the WWW URL's for details on the conferences/workshops/special issues. Please let me know what you think of the length of this issue.)

- Karl Tombre suggested using the performance evaluation protocol

developed for the graphics recognition contest to compare line finding methods (as opposed to systems)

- It was suggested to hold the formal TC10 meetings at the GREC workshops to encourage more participation

The participants agreed that I continue as the chairman of TC10 for another two years.

-Atul

>From: [atul@basit.com](mailto:atul@basit.com) <Atul Chhabra>  
>Subject: CFP: GREC'99, Int. Workshop on Graphics Recognition, Jaipur, India

Call For Papers

GREC'99

Third IAPR International Workshop on Graphics Recognition

Jaipur, India  
September 26-27, 1999

<http://www.iapr-tc10.or.kr/GREC99/>

You are invited to participate in a single-track 2-day workshop on methods and systems for graphics recognition organized by IAPR TC-10 (Technical Committee on Graphics Recognition). The workshop will comprise several sessions dedicated to specific topics. 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 where each participant is invited to contribute by proposing solutions to some of the questions or presenting results of his/her work. Each session will be concluded by a panel discussion.

The workshop will be held just after the 5th International Conference on Document Analysis and Recognition (Bangalore, India, September 20-22, 1999). Jaipur, the GREC city, is located in northern India, 250 km from New Delhi. There are plenty of flights connecting Bangalore and Delhi. Between Delhi and Jaipur, there are a few flights and good rail and bus connections.

Attendance will be limited to 75 persons. All participants are expected to contribute actively to the workshop, either by presenting a full state-of-the-art paper, or by an abstract of remarks on a specific topic. You are invited to submit to the workshop chairs an abstract (2 to 4 pages) of your proposed contribution to the workshop. Please indicate if you would be willing to present a state-of-the-art paper on this topic, if invited to do so by the program committee.

Pre-proceedings of all contributed papers will be available at the workshop for the participants. After the workshop, the program committee plans to publish as a book revised versions of selected key papers, possibly including reports from the panel discussions and the contest.

Relevant topics include but are not limited to:

- \* raster-to-vector techniques
- \* recognition of graphical primitives
- \* recognition of graphic symbols in charts and diagrams
- \* interpretation of engineering drawings, logic diagrams, maps, charts, etc.
- \* analysis of line drawings, tables, forms etc.
- \* graphics-based information retrieval
- \* 3-D models from multiple 2-D views (line drawings)
- \* interpretation of low-level ("dumb") CAD data
- \* description of complete systems for interpretation of graphics in scanned documents
- \* performance evaluation in graphics recognition

Proposals are being sought for the third graphics recognition contest to be held at the workshop. At the past two GREC workshops, contests were held in the areas of dashed line detection and raster to vector conversion.

Please send three copies of your abstract to one of the co-chairs by March 1, 1999. Contact either one of the co-chairs for further information.

Important Dates

Abstracts Due(2-4 pages): March 1, 1999

Acceptance notification: May 1, 1999

Final Manuscripts Due: June 15, 1999

WORKSHOP ORGANIZATION:

CHAIRS:

Atul Chhabra Dov Dori  
Bell Atlantic Network Systems Information Systems Engineering  
Advanced Technology Faculty of Industrial Engineering  
500 Westchester Avenue and Management  
White Plains, NY 10604 Technion-Israel Institute of Technology  
USA Haifa 32000, Israel

Phone: 1 (914) 644-2786 Phone: (972) 4 8294409

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PROGRAM COMMITTEE:

Keiichi Abe, Japan Osamu Hori, Japan  
Adnan Amin, Australia Rangachar Kasturi, USA  
Dorothea Blostein, Canada Young-Bin Kwon, Korea  
Horst Bunke, Switzerland Noshir Langrana, USA  
Luigi Cordella, Italy Gerd Maderlechner, Germany  
Marc-Pierrot Deseilligny, France Lawrence O'Gorman, USA  
Its'hak Dinstein, Israel Theo Pavlidis, USA  
David Doermann, USA Ihsin Phillips, USA  
Georgy Gimelfarb, New Zealand Arnold Smeulders, Netherlands  
Robert Haralick, USA Karl Tombre, France

>Subject: CFP: ICDAR'99, Int. Conf. on Document Analysis & Recognition, Bangalore, India

ICDAR'99

Fifth International Conference on  
Document Analysis and Recognition

Bangalore, India

September 20 - 22, 1999

Call for Papers

You are invited to participate in the Fifth  
international Conference on Document Analysis and  
Recognition to be held during September 20-22,  
1999 in Bangalore, India.

General Chairs The conference is sponsored by the international  
Association for Pattern Recognition (IAPR)  
Sargur N.Srihari(USA) Technical Committees 10 and 11 and the Computer  
R. Kasturi (USA) Society of India.

Program Chairs This conference is a unique international forum  
for identifying, encouraging and exchanging ideas  
Jonathan J. Hull (USA) on research, development and novel applications  
Seong-Whan Lee (Korea) dealing with documents--in any language--and how  
Karl Tombre (France) to make the contents of document image  
computer-accessible. The topics will include, but  
Program Committee are not limited to:

K. Abe (Japan)  
A Amin (Australia)  
H. Baird (USA)  
G. Sanniti di Baja Document Image Processing  
(Italy) Binarization and Applications  
N. Bartneck (Germany) Segmentation Forms and Bank-Check  
T. Bayer (Germany) Feature Extraction Reading  
A. Belaid (France) Distortion and Skew Postal Automation  
H. Bunke (Switzerland) Detection Geographical  
B. B. Chaudhuri (India) Text/Graphics Separation Information Systems  
M. Cheriet (Canada) Document Duplicate Electronic Publishing  
A. Chhabra (USA) Detection Large Information  
I. Dinstein (Israel) Systems  
D. Doermann (USA) Document Image Analysis Musical Score  
J. I. Doh (Korea) Layout Analysis Recognition  
D. Dori (Israel) Logical Structure AnalysisWorld Wide Web  
H. Emptoz (France) Applications  
F. Esposito (Italy) Recognition of Specific  
M. Gori (Italy) Structures Document Analysis  
T. K. Ho (USA) Systems  
R. Hoch (Germany) Character Recognition and Hardware Architectures  
O. Hori (Japan) Segmentation Software Packages  
S. Impedovo (Italy) Segmentation-Free Software Tools  
R. Ingold (Switzerland) Approaches Integrated Systems  
J. H. Kim (Korea) Broken and Touching  
J. Kittler (UK) Characters Document-Based  
Y. Lecourtier(France) Isolated Unconstrained Information Retrieval  
H. J. Lee (Taiwan) Characters Document Image Filing  
G. Leedham (Singapore) Large Vocabularies Text-and Graphics-Based  
D. Lopresti (USA) Indexing  
G. Lorette (France) Handwriting Recognition Information Extraction  
G. Maderlechner Drawings & Gestures Retrieval of Text,  
(Germany) Handwritten Characters & Graphics and Pictures  
B. Mehre (India) Symbols  
S. Mori (Japan) Pen Based Interface Text and Document  
Y. Nakano (Japan) Signature Verification Understanding  
T. Nartker (USA) Text Analysis and  
H. Nishida (Japan) Graphics Recognition Recognition  
L. O'Gorman (USA) Vectorization Use of Linguistic  
T. Pavlidis (USA) Analysis of Maps Knowledge  
I. Phillips (USA) Engineering Drawings Use of Domain-Specific  
R. Plamondon (Canada) Interpretation Knowledge  
G. Porter (USA) Diagrams Multilingual Text  
R. M. K. Sinha (India) Symbol Recognition Understanding  
L. Spitz (USA)  
C. Y. Suen (Canada) DA Techniques applied to Performance  
Y. Y. Tang (Hong Kong) New Media Characterization and

L. Vincent (USA) Electronic Books and Evaluation  
N. Vincent (France) Hypertext Image Degradation  
M. Viswanathan (USA) Multimedia Models  
D. Xiaoaing (China) Hypermedia Performance  
K. Yamamoto (Japan) Characterization  
Benchmarking  
Tutorial Chair Research Databases  
Standardization  
L.Lam (Hong Kong)

Publicity Co-Chairs \* Paper Submission January 15, 1999  
\* Notification of  
A. Dengel (Germany) Acceptance April 15, 1999  
H. Fujisawa (Japan) \* Camera Ready Paper May 31, 1999  
M. Mohiuddin (USA)

Executive Assistant

E. Smith

Presentation:

The conference will include oral and poster presentations and invited talks by distinguished researchers. Posters with a demonstration will be considered at the time of paper submission upon request by the authors. All presentations will be in English.

Paper Submission:

Papers should describe original and unpublished work. Those who wish to present a paper are requested to submit four copies of a double-spaced complete paper of not more than 20 pages by January 15, 1999 to one of the Program Chairs listed below. The first page of the manuscript should contain a title, affiliation, mailing address, phone/fax numbers and e-mail address of the contact author. The second page should include a title, a 200-word abstract, and keywords. Papers accepted for presentation will be published in the conference proceedings, i.e., six pages (approximately 5000 words including figures) for long papers and four pages (3500 words) for short papers and poster papers. We do not review papers submitted by facsimile or e-mail.

Dr. Jonathan J. Hull Dr. Karl Tombre  
Ricoh California Prof. Seong-Whan Lee LORIA / INRIA  
Research Center Dept. of Computer Science 615 rue du Jardin  
2882 Sand Hill Road, and Engineering Botanique, BP 101  
Suite 115 Korea University 54602 Villers cedex  
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(1)-650-496-5723 Fax: (82)-2-926-2168 Fax:  
Fax: (1)-650-854-8740 E-Mail: (33)-383-27-8319  
E-Mail: [swlee@image.korea.ac.kr](mailto:swlee@image.korea.ac.kr) E-Mail:  
[hull@crc.ricoh.com](mailto:hull@crc.ricoh.com) [Tombre@loria.fr](mailto:Tombre@loria.fr)

For further information, please contact the Conference Secretariat or one of the Publicity Co-Chairs.

>From: Adrian F. Clark [mailto:]; document.write(""); document.write(addy\_text18310); document.write('<Va>'); //-->\n ]  
>Subject: CFP: Workshop on Benchmarking of Vision Systems, Canary Islands, Spain

One-day Workshop on  
Performance Characterisation and Benchmarking  
of Vision Systems

Immediately preceding the First International Conference on Vision Systems  
(ICVS)  
12 January 1999, at Las Palmas de Gran Canaria, Canary Islands Spain

Scope

We are now at the stage where complex vision systems are being constructed from the component technologies. This poses a new set of research questions to obtain a better understanding the impact that the performance of a part has on the performance of the overall as well as overall system behaviour. The workshop is an opportunity to present recent work in this new area with a focus on characterisation of the performance. Valid topics include systems analysis, algorithm comparisons, performance metrics, benchmarks, frameworks, testbeds, tools, test sets and databases.

The workshop web page is:  
<http://peipa.essex.ac.uk/conf/icvs-workshop/>

Timetable  
28 Sep 1998 Deadline for submission  
1 Nov 1998 Notification of acceptance  
1 Dec 1998 Final papers due  
12 Jan 1999 Workshop

Proceedings will be prepared and distributed to all participants.

Cost

100 ecu

## Submission Information

You may submit your manuscript either electronically or by post ("snail-mail").

\* Electronic submissions should be prepared with either LaTeX or Microsoft Word for Office 97. The submission, and any associated image files etc, should be collected into a tar.gz or zip file and emailed as an attachment to [alien@essex.ac.uk](mailto:alien@essex.ac.uk) with a Subject line of "ICVS workshop submission".

\* Four copies of paper submissions should be sent to  
Dr Adrian F Clark  
VASE Laboratory, Department of Electronic Systems Engineering  
University of Essex, Wivenhoe Park, Colchester CO4 3SQ UK

Submissions should be of no more than 20 pages, including figures, and should be prepared double-spaced on A4 or quarto paper with 11-point fonts.

## Workshop organizers

Adrian Clark <[alien@essex.ac.uk](mailto:alien@essex.ac.uk)> (University of Essex, Colchester, UK)  
Patrick Courtney <[pc@server1.smb.man.ac.uk](mailto:pc@server1.smb.man.ac.uk)> (Visual Automation Ltd, Manchester, UK)

[ Program committee omitted for brevity. --AKC ]

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>From: "Adrian F. Clark" <[alien@dahlia.essex.ac.uk](mailto:alien@dahlia.essex.ac.uk)>  
>Subject: CFP: IPA99, IEE Conf. Image Processing & Applications, Manchester, UK

Seventh IEE Conference on Image Processing and its Applications (IPA99)  
IPA99 12 - 15 July 1999  
Manchester, UK

This Conference is the seventh in the very successful series on image processing organised by the Institution of Electrical Engineers. It aims to provide an international forum for the reporting of current developments and new ideas in image processing and related areas. The conference will bring together keynote speakers, researchers and the industrial community, providing a bridge between state of the art image processing and best engineering practice.

Submissions to the Conference are invited. They should be initially in the form of an abstract of about 1000 words and should be received by the Secretariat on or before 2 November 1998. Authors of abstracts selected for further consideration will be required to provide camera-ready copy of no more than 4 A4 pages (approximately 4,500 words, or the equivalent including illustrations etc) by March 1999.

For further information, please visit the Conference web-site:  
<http://www.iee.org/Conf/IPA/Welcome.html>

Dr Adrian F Clark <http://esewww.essex.ac.uk/~alien/>  
[alien@essex.ac.uk](mailto:alien@essex.ac.uk) -- VOICE: +44 1206 872432 -- FAX: +44 1206 872900  
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>From: ISPRS-Munich99 <[isprs\\_conf99@photo.verm.tu-muenchen.de](mailto:isprs_conf99@photo.verm.tu-muenchen.de)>  
>Subject: CFP: Automatic Extraction of GIS Objects from Digital Imagery, Munich

## CALL FOR PAPERS

ISPRS Conference  
AUTOMATIC EXTRACTION OF GIS OBJECTS FROM DIGITAL IMAGERY

Muenchen, Germany, September 6 - 10, 1999

CONFERENCE HOME PAGE  
<http://www.photo.verm.tu-muenchen.de/isprs/munich99/>

This International Society for Photogrammetry and Remote Sensing (ISPRS) single track conference addresses researchers and practitioners from universities, research institutes, industry, government organizations, and engineering companies. It consists of high quality, previously unpublished papers, presented either orally or as posters. Contributions should present recent research and applications focusing on, but not restricted to the following topics:

- Automatic and semi-automatic extraction of topographic objects such as buildings, roads, and vegetation
- Models and strategies for topographic object extraction from aerial images, satellite imagery, surface models, and laser-scanner data
- Sensor and data fusion including the use of information from geographic information systems (GIS)
- Automatic extraction of digital surface models
- Automatic image orientation and registration
- Integration and interaction of digital systems for image analysis and GIS
- Quality control and performance evaluation

All submitted papers will undergo a rigorous review process. Reviewing will be carried out in a "double blind" fashion by the Program Committee. Proceedings will be published in the International Archives of Photogrammetry and Remote Sensing, Volume XXXII, Part 3-2W5.

## INSTRUCTIONS TO AUTHORS

Submit four (4) copies of the paper in English by January 16, 1999 to:

Conference Secretariat ISPRS-Munich99  
Chair for Photogrammetry and Remote Sensing  
Technische Universitaet Muenchen  
D-80290 Muenchen  
Germany

Each of the four copies must contain the following items:

1. A title page containing:
    - (a) The title of the paper
    - (b) The names and complete addresses (telephone, fax, email) of all authors
    - (c) An abstract of up to 300 words clearly stating the impact of the contribution (originality, importance, results, practical impact, related work and how it differs)
    - (d) A set of keywords
  2. A second title page with only title, abstract, and keywords.
- Authors and institutions are not to be identified

The paper is restricted to 6 pages formatted in ISPRS two-column style (A LaTeX2e class file, BibTeX style file, and demonstration LaTeX2e file, as well as an MS Word File are available from the conference home page <http://www.photo.verm.tu-muenchen.de/isprs/munich99/>) including all text, figures and references. Colored pages will be possible, however at the expense of the authors.

## IMPORTANT DATES

Deadline for submission of full papers: January 16, 1999  
Notification of acceptance: April 12, 1999  
Deadline for camera-ready manuscripts: May 31, 1999  
Conference program begins: September 6, 1999

## CONFERENCE CHAIR

Heinrich Ebner, Wolfgang Eckstein, Christian Heipke, Helmut Mayer  
Technische Universitaet Muenchen, Germany

[ Program committee omitted for brevity. --AKC ]

## CONTACT ADDRESS

Conference Secretariat ISPRS-Munich99  
Chair for Photogrammetry and Remote Sensing  
Technische Universitaet Muenchen  
D-80290 Muenchen  
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Phone: +49-89-2892-2671  
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>From: Steven Shafer <[stevensh@microsoft.com](mailto:stevensh@microsoft.com)>  
>Subject: CFP: ICCV'99 Int. Conf. on Computer Vision, Kerkyra, Greece

## Call For Papers

7th IEEE International Conference on Computer Vision

September 20-25, 1999  
Kerkyra, Greece

<http://www.cs.toronto.edu/iccv99/>

ICCV is a single track conference consisting of highest quality, previously unpublished, contributed papers, presented either orally or as a poster. The oral presentation dates will be September 21 - 24. Contributions are sought on original research on any aspect of computer vision, including but not restricted to the following topics:

Image Representation, Compression and Coding  
Mathematical Morphology  
Texture, Colour, Stereo and Motion Analysis  
Image Segmentation and Grouping  
Surface Geometry and Shape  
Object and Event Recognition  
Active Vision  
Real-Time Vision  
2D and 3D Scene Analysis  
Visually Guided Robotics  
Computational Models of Biological Vision  
Applications

All reviewing will be carried out double blind by the Program Committee. The proceedings will be published by IEEE Computer Society in paper as well as CD-ROM formats.

The best papers as determined by the program committee will be forwarded to the Marr Prize Committee of the IEEE PAMI TC for final award selection. These awards will be announced and the papers presented at a special Marr Prize session Sept. 21 (see conference format).

#### Important Dates

Deadline for submission of papers 5 March 1999  
Notification of acceptance 31 May 1999  
Deadline for final manuscripts 30 June 1999

#### Instructions to Authors

The conference language is English. All submissions, reviews and notices will be in electronic format only. The details regarding submission formats will be available later this year (and will be derived from the current CVPR formats).

Your paper must contain the following items:

1. A title page containing:
  - a. The title of the paper.
  - b. The names and complete addresses (telephone, fax, e-mail) of all authors, with the corresponding author identified.
  - c. An abstract of up to 300 words clearly stating the impact of the contribution (originality, importance, results, related work and how does your work differ from past work).
  - d. A set of at most 10 keywords.
2. A second title page with only the title and abstract. Authors and institution are not to be identified.
3. The text of your submission; acknowledgments and references must neither identify nor provide clues as to author identity or affiliation

Finally, each submission must be accompanied by a cover letter, signed by the first and/or senior author(s) guaranteeing that one of the authors will present the paper at the conference if the paper is accepted either as a poster paper or as an oral presentation paper and that the submitted paper, and any related paper with essentially the same content, has not been and will not be submitted to any other conference during the ICCV'99 review period, that is, until after May 31, 1999. This letter may be submitted either using normal post or by fax.

Each paper is allotted up to 8 pages in the Conference Proceedings. The body of the paper should be no more than 15 pages (single-spaced, 12 point font) including all text, figures and references. Pages that include colour will be possible, however at the authors' expense.

Any paper not conforming to the all of the above will be returned to the authors.

Queries may be addressed to:

ICCV '99 Conference Secretariat  
Department of Computer Science,  
D.L. Pratt Building, Room 283  
6 King's College Rd.,  
University of Toronto,  
Toronto, Ontario, Canada M5S 3G4  
E-MAIL: [iccv99@cs.toronto.edu](mailto:iccv99@cs.toronto.edu)

Submissions are to be deposited via anonymous ftp at:

<ftp://ftp.cs.toronto.edu/pub/iccv99/in.coming>

>From: Pierre Boulanger <[Pierre.Boulanger@iit.nrc.ca](mailto:Pierre.Boulanger@iit.nrc.ca)>  
>Subject: CFP: 3DIM99, Int. Conf. on 3-D Digital Imaging & Modeling, Ottawa

\*\*\* First Call for Papers \*\*\*

Second International Conference on 3-D Digital  
Imaging and Modeling

October 4-8, 1999

Chateau Laurier Hotel  
Ottawa, Canada

3-D digital imaging and modeling is one of the fastest growing digital technologies. Important applications such as robotics, rapid product development, human modeling, medicine, virtual reality and scientific imaging attest to the far reaching implications of research in this field.

A first conference, held in 1997, provided a unique forum on 3D imaging and modeling for 150 researchers and developers from more than 15 countries.

It is in this context that the Second International Conference on 3-D Imaging and Modeling will take place. Sponsored and organized by the National Research Council of Canada, the conference will look at recent advances in 3-D sensor systems, geometric data processing, geometric modeling, and applications.

The organizing committee invites you to submit original full papers in English by March 5, 1999. The papers will be reviewed by an international program committee. The Conference proceedings will be available at the time of the conference.

#### TOPICS

- \* 3-D sensing methods
- \* Smart sensors, smart scanning
- \* Hand-held 3-D sensors
- \* Integrated sensor systems
- \* Sensor calibration and accuracy
- \* Filtering; segmentation; edge detection
- \* View registration and integration
- \* Geometric processing algorithms
- \* 3-D image understanding
- \* Surface and solid modeling
- \* Reverse engineering and CAD interfacing
- \* Texture acquisition, integration and mapping
- \* Object digitizing and modeling
- \* Human digitizing and modeling
- \* Site and environment digitizing and modeling
- \* Virtual environment modeling
- \* Fusion of optical data with other sensor modalities
- \* Multiresolution 3D representations
- \* Applications (industrial, medical, entertainment, etc.)

#### CONFERENCE COMMITTEE:

Conference Chair: Marc Rioux (NRC) [marc.rioux@iit.nrc.ca](mailto:marc.rioux@iit.nrc.ca)  
Program Co-Chairs: Pierre Boulanger(NRC) [pierre.boulanger@iit.nrc.ca](mailto:pierre.boulanger@iit.nrc.ca)  
Denis Laurendeau (Laval U.) [laurend@gel.ulaval.ca](mailto:laurend@gel.ulaval.ca)

[ Program committee omitted for brevity. --AKC ]

#### IMPORTANT DATES :

Full paper submission deadline: March 5 1999  
Notification of acceptance: May 21 1999  
Camera-ready copy: June 18 1999

#### FOR MORE INFORMATION:

See the conference web site: <http://www.vit.iit.nrc.ca/3DIM99>  
or contact the conference chair or program co-chairs.

>From: [nsip@manisa.ee.bilkent.edu.tr](mailto:nsip@manisa.ee.bilkent.edu.tr)  
>Subject: CFP: NSIP'99, Nonlinear Signal and Image Processing, Antalya, Turkey

1999 IEEE-EURASIP Workshop on Nonlinear Signal and Image Processing (NSIP'99)

Call for Papers  
June 20-23, 1999, Antalya, Turkey  
Web: <http://www.ee.bilkent.edu.tr/NSIP99>

#### SPONSORED BY:

- \* IEEE Signal Processing Society -- IMDSP Technical Committee
- \* IEEE Circuits and Systems Society -- DSP Technical Committee
- \* European Association for Signal Processing (EURASIP)

#### ORGANIZERS:

A. Enis Cetin (chair), Lale Akarun, Orhan Arikan, Volkan Atalay, Gozde Bozdagi, Tanju Erdem, Aytul Ercil, Aysin Ertuzun, Yasemin Yardimci

#### WORKSHOP:

The 1999 Workshop on Nonlinear Signal and Image Processing will be the fourth in a Technical Committee: series of international workshops. It will

- R. Ansari be a forum for the presentation and
- J. Astola discussion of the most recent work in the
- J. Cadzow area of nonlinear signal and image
- E. Coyle processing.
- G. Arce
- E. J. Delp The '99 workshop will be held in June 20-23
- R. de Figueiredo in Antalya, Turkey. Antalya is a scenic
- H. Derin resort town by the Mediterranean Sea. The
- B. L. Evans weather is warm and clear in June.
- M. Gabbouj Archeological sites near Antalya include
- C. Guillemot Phaselis, Aspendos, Perge, Letoon, Patara,
- R. A. Haddad Xanthos, and Termessos. A wide variety of
- S. Kassam outdoor activities is also available.
- M. Kaveh
- H. Krim WORKSHOP TOPICS:
- S. Mallat The topics to be addressed are intended to
- S. Mitra cover the theory and application of
- D. Munson nonlinear techniques in signal and image
- B. Onaral processing. Specific topics which will be

- L. Onural addressed in this workshop are:
- H. Bukhardt
- M. Orchard \* Order statistic type filters and filter
- H. Ozaktas banks
- I. Pitas \* Robust methods for detection and
- J. Proakis estimation
- A. M. Tekalp \* Chaotic and fuzzy systems in signal and
- A. H. Tewfik image processing
- H. J. Trussell \* Implementation of nonlinear systems
- M. Kunt \* Nonlinear techniques for waveform
- S. Marshall coding
- J. Mathews \* Morphological signal/image processing
- Y. Neuvo and analysis
- J. Serra \* Neural networks for signal processing
- G. Sicuranza \* Volterra and general polynomial type
- A. Taguchi filters
- A. N. Venetsanopoulos \* Applications of nonlinear signal and
- P-T Yu image processing
- Yrjo Neuvo \* Nonlinear techniques for color images
- Ioannis Pitas and image sequences

SCHEDULE FOR AUTHORS:

October 30, 1998 Submission of two-page summary  
 February 15, 1999 Notification of acceptance  
 April 1, 1999 Receipt of final five page manuscript and registration fee

PLEASE SEND YOUR TWO-PAGE SUMMARY TO:

Prof. A. Enis Cetin, Department of Electrical and Electronics Engineering  
 Bilkent University, Bilkent, Ankara, 06533 Turkey.  
 FAX: +90 312 266 4126, TEL: +90 312 2664307 or +90 312 2901477  
 E-mail : [cetin@ee.bilkent.edu.tr](mailto:cetin@ee.bilkent.edu.tr)  
 Web: <http://www.ee.bilkent.edu.tr/NSIP99>

>From: Marc Parizeau <[parizeau@gel.ulaval.ca](mailto:parizeau@gel.ulaval.ca)>  
 >Subject: CFP: VI/QCAV'99, Vision Interface/Quality Control by Art.Vision, Trois-Rivieres, Canada

VISION INTERFACE (VI'99):

<http://www.dmi.usherb.ca/conferences/VI-99/>  
 and

QUALITY CONTROL BY ARTIFICIAL VISION (QCAV'99):

<http://www.dmi.usherb.ca/conferences/QCAV-99/>

May 18-21 1999, Hotel Delta, Trois-Rivieres, Quebec, Canada

VI/QCAV'99 is a unique event with two international research conferences that present the latest results in computer vision and quality control by artificial vision. Each conference offers three concurrent days of invited and submitted papers. For a single registration fee, participants can attend presentations in either conference, promoting the exchange of knowledge among these important disciplines. Time has been set aside for workshops and other events. A banquet provides additional opportunities to meet speakers and other attendees for informal discussion in a social setting. The two conferences are sponsored by the Canadian Image Processing and Pattern Recognition Society (CIPPRS). VI is also sponsored by the International Association for Pattern Recognition (IAPR).

ORGANIZING COMMITTEE:

General Chair: Fathallah Nouboud, UQTR, Canada  
 VI Program Co-Chairs: Marc Parizeau, Universite Laval, Canada  
 Djemel Ziou, Universite de Sherbrooke, Canada  
 QCAV Program Co-Chairs: Philippe Bolon, Universite de Savoie, France  
 Sophie Kohler, Universite de Bourgogne, France  
 Local Arrangements: Alain Chalifour, UQTR, Canada  
 Nadia Ghazzali, Universite Laval, Canada

\*\*\*\*\* VISION INTERFACE \*\*\*\*\*

Vision Interface'99 will have the theme: "Computer Vision for Industrial Applications". Contributions describing original and unpublished research results are solicited on this theme and in other areas of computer vision, image processing and pattern recognition. Topics of the conference include, but are not limited to, the following:

- \* 2D and 3D scene analysis
- \* Active and real-time vision
- \* Mathematical imaging
- \* Document analysis
- \* Texture analysis
- \* Biomedical image analysis
- \* Image compression and coding
- \* Stereo and motion analysis
- \* Content-based image retrieval
- \* Video retrieval and indexing
- \* Image database
- \* Image segmentation
- \* Neural networks
- \* Object recognition
- \* Document compression and coding
- \* OCR and Handwriting recognition
- \* Remote Sensing
- \* Visual Inspection

- \* Multimedia
- \* Internet

[ Program committee omitted for brevity. --AKC ]

#### SUBMISSION GUIDELINES:

For the review process, prepare your manuscript (full paper) in English or French on single-column, double-spaced pages (15 maximum). Each manuscript should contain a cover page with the paper title, names and affiliations of authors, and keywords. The next page should repeat the title but not the names and affiliations of authors, and proceed with an abstract (250 words maximum) followed by the full paper (the cover page will be removed before reviewing). Either send by mail five hardcopies of the manuscript to:

Marc Parizeau, Universite Laval  
Laboratoire de vision et systemes numeriques  
Departement de Genie Electrique et de Genie Informatique  
Universite Laval, Ste-Foy (PQ), Canada, G1K 7P4

Or submit your manuscript electronically through the following web server:

<http://manitou.gel.ulaval.ca:8080/vi99.html>

where you will find further instructions (files may be submitted either in postscript or pdf). The deadline for submitting papers using both procedures is October 31, 1998.

#### \*\*\*\*\* QUALITY CONTROL by ARTIFICIAL VISION \*\*\*\*\*

Quality Control by Artificial Vision'99 : Contributions describing original and unpublished research results are solicited on, but not limited to, the following themes.

#### Topics

- \* Defect detection and characterization
- \* Classification
- \* Control by infrared and near infrared thermography
- \* 2D and 3D dimensional control
- \* Aspect control
- \* Real time control
- \* Image sensors
- \* Illumination modeling
- \* 2D and 3D image processing algorithms
- \* Real time image processing software development
- \* Real time implementation

#### Methods

- \* Segmentation
- \* Pattern recognition
- \* Texture analysis
- \* Wavelet transform
- \* Genetic algorithm
- \* Data fusion
- \* Mathematical morphology
- \* Stochastic modeling
- \* 3D representation
- \* Neural network

[ Program committee omitted for brevity. --AKC ]

#### SUBMISSION GUIDELINES:

Summary submission must be done in 3 copies (hardcopy version only) written in French or English no later than October 31, 1998. Each copy of the summary, limited to 3 pages maximum, must include the followings:

1. Title of the paper
2. A list of keywords as well as a 100-word abstract
3. An extended summary of the research work
4. The name (underlined), full postal address, phone, fax and email numbers of the contact author for correspondence.
5. The names, affiliations and eventually postal addresses of the co-authors
6. Designation of the most appropriate topic for the paper.
7. Preference for oral or poster presentation

All QCAV submissions are to be sent to:

Dr. S. Kohler  
Laboratoire LE2I  
IUT Le Creusot  
12, rue de la fonderie  
71200 Le Creusot  
FRANCE  
Phone: (+33) (-0) 385 73 10 96  
Fax: (+33) (-0) 385 73 10 99  
Email: [s.kohler@iutlecreusot.u-bourgogne.fr](mailto:s.kohler@iutlecreusot.u-bourgogne.fr)

\*\*\*\*\*

For more information on the conferences or on the city of Trois-Rivieres, see the following web sites.

<http://www.dmi.usherb.ca/conferences/VI-99/>  
<http://www.dmi.usherb.ca/conferences/QCAV-99/>

#### IMPORTANT DATES:

Send papers to the appropriate program chair by October 31, 1998.  
Acceptance or rejection notification will be sent by January 25, 1999.  
Full copies of accepted papers are due by March 15, 1999.

-----  
>From: [erh@minster.cs.york.ac.uk](mailto:erh@minster.cs.york.ac.uk)  
>Subject: CFP: 2nd Intern WS on Energy Minimization in CV&PR, York, England

#### PRELIMINARY CALL FOR PAPERS

Second International Workshop on  
ENERGY MINIMIZATION METHODS IN  
COMPUTER VISION AND PATTERN RECOGNITION

York, England, July 26-29, 1999

Energy minimization methods represent a fundamental methodology in computer vision and pattern recognition, with roots in such diverse disciplines as Physics, Psychology, and Statistics. Recent manifestations of the idea include Markov random fields, relaxation labeling, various types of neural networks, etc. These techniques are finding application in areas such as early vision, graph matching, motion analysis, visual reconstruction, etc. This workshop is the second in a series that aims to consolidate research efforts in this area, and to provide a discussion forum for researchers and practitioners interested in this important yet diverse subject. The scientific program of the workshop will include the presentation of invited talks and contributed research papers. The workshop is sponsored by the International Association for Pattern Recognition (IAPR) and organized by the Department of Computer Science of the University of York.

#### Topics

Papers covering (but not limited to) the following topics are solicited:

Theory: (e.g., Bayesian contextual methods, a discrete optimization, information theory and statistics, learning and parameter estimation, Markov random fields, neural networks, relaxation processes, statistical mechanics approaches, stochastic methods, variational methods)

Methodology: (e.g., deformable models, early vision, matching, motion, object recognition, shape, stereo, texture, visual organization)

Applications: (e.g., character and text recognition, face processing, handwriting, medical imaging, remote sensing)

#### Program co-chairs

Edwin R. Hancock, University of York, UK  
Marcello Pelillo, University of Venice, Italy

[ Program committee omitted for brevity. --AKC ]

#### Invited speakers

There will be one keynote speaker and four invited speakers. Details are currently being finalised.

#### Venue

The workshop will be held at the King's Manor in the historic center of York. Accommodation will be provided in nearby hotels and on the campus of the University of York.

#### Submission procedure

Prospective authors should submit four copies of their contribution(s) by February 1, 1999 to:  
Edwin Hancock (EMMCVPR'99)  
Department of Computer Science, University of York  
Heslington, York, YO1 5DD, UK.  
E-mail: [erh@cs.york.ac.uk](mailto:erh@cs.york.ac.uk)

The manuscripts submitted should be no longer than 15 pages, and the cover page should contain: title, author's name, affiliation and address, e-mail address, fax and telephone number, and an abstract no longer than 200 words. In case of joint authorship, the first name will be used for correspondence unless otherwise requested. All manuscripts will be reviewed by at least two members of the program committee. Accepted papers will appear in the proceedings which will again be published in the series Lecture Notes in Computer Science by Springer-Verlag, and will be distributed to all participants at the workshop. In order to get a high-quality book with a uniform and professional appearance, prospective authors are strongly encouraged to use the LaTeX style file available at the WWW site indicated below.

#### Important dates

Paper submission deadline: 1 February, 1999  
Notification of acceptance: April 1999  
Camera-ready paper due: May 1999

Homepage

Information on the workshop will be maintained at  
<http://cs.york.ac.uk/~erh/EMMCVPR99.html>

This page will include information on accepted papers and the final program.

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>From: Chris McGlone <[Chris\\_McGlone@maps.cs.cmu.edu](mailto:Chris_McGlone@maps.cs.cmu.edu)>  
>Subject: CFP: 3D Geospatial Data Production: Meeting Application Requirements, Paris

ISPRS Working Group II/6  
Integration of Image Understanding into Cartographic Systems

First Announcement and Call for Papers  
International Workshop

3D Geospatial Data Production : Meeting Application Requirements

April 7-9, 1999  
Paris, France

Conference chairs:  
Olivier Jamet David McKeown  
Laboratoire Matis Digital Mapping Laboratory  
Institut Geographique National School of Computer Science  
2 Avenue Pasteur Carnegie Mellon University  
F 94165 St. Mande 5000 Forbes Avenue  
FRANCE Pittsburgh, PA 15213-3891 USA  
[ojamet@teaser.fr](mailto:ojamet@teaser.fr) [dmm@cs.cmu.edu](mailto:dmm@cs.cmu.edu)

Topics

The ISPRS WG II/6, "Integration of Image Understanding into Cartographic Systems," is at the intersection of computer vision, photogrammetry and cartography; image understanding algorithms and systems are considered in the context of photogrammetric and cartographic systems and their applications.

The need for 3D geospatial data is increasing with the emergence of new applications beyond traditional cartographic products. As a consequence, the production of 3D geospatial data by automated image understanding processes is a crucial issue.

The workshop will focus on the ways that geospatial data capture systems which include image understanding processes can ensure a quality level that meets their application requirements. A common theme, then, is performance evaluation described as predictive and/or post-processing analysis of system performance. Interesting papers are invited that give practical insights or experiences in the following three areas:

Predictive analysis:

Relationships between internal quality measures in image understanding processes and the end user application requirements.  
Which methods can be used for efficient quality control in an operational context?  
Is it possible to guarantee a quality level for data produced by an automatic image understanding process?

Post-processing analysis:

Qualification procedures for data capture systems.  
Methods or procedures to make an assessment of image processing systems based on theoretical studies of the algorithms used in the system.  
Applicability of simulated images for this type of assessment.  
How to deduce an overall quality prediction from a "step by step" error analysis?  
Comparison of such assessment methods with overall evaluation through data quality control.

Performance analysis methodologies:

3D geospatial data quality assessment.  
Quantitative measures for cartographic feature capture (buildings, roads, etc.)  
Which quality measurements for given operational requirements?  
How to compile usable reference data and define representative test sets?  
Experience with software tools and metrics for performance analysis.

In addition to contributions on the above topics, papers on classical cartographic feature extraction, as well as emerging applications in visualization of geospatial data, simulation, and automated update of geographic databases are invited. These submissions should have some significant connection in content with the overall workshop theme of performance analysis for application requirements.

Submission Deadlines

You are invited to submit full papers to the workshop secretariat (see "Contacts," below) not later than December 31, 1998. Authors will be notified of acceptance by February 1, 1999. NOTE--the submission

dates have been changed from the preliminary notice, to allow increased time for accepted authors to make travel arrangements.

Authors are requested to submit 3 copies of their full paper (10 to 15 pages, in English or French). Since reviewing will be double blind, each copy of the paper must include a cover page (with title, names and addresses of authors, and a short abstract and keywords) and an additional cover page containing only the title and abstract.

While scientific proposals on the above issues will be appreciated, technical papers about operational issues will also be welcome. Papers will be evaluated according to their relevancy regarding the workshop topics and according to their originality, for research works.

A selection of the best contributions will be published in the Bulletin of the "Societe Francaise de Photogrammetrie et de Teledetection."

#### Workshop Venue

This workshop is organized in cooperation with the Societe Francaise de Photogrammetrie et Teledetection (SFPT) and the Institut Geographique National (I.G.N). As the French national mapping center, the I.G.N. is responsible for maintenance of nationwide digital topographic and cartographic databases and aerial photography archives; it also supports major research programs into automated systems for cartographic feature extraction, cartographic database management, and map generation and update, among other topics. The Workshop will be held at the I.G.N. campus in Saint-Mande (15 minutes from Paris city center by Paris Metro).

#### Contacts

For paper submission and for further information on the workshop, please contact:

Ghislaine Bordes, Institut Geographique National  
Service de la Recherche, Lab. Matis  
2, avenue Pasteur, 94 165 Saint-Mande FRANCE

Phone : +33 1 43 98 80 69, Fax : +33 1 43 98 85 81

E-mail address : [Ghislaine.Bordes@ign.fr](mailto:Ghislaine.Bordes@ign.fr)

Conference web page:

(English version) [http://www.ign.fr/sfpt/manifestations/paris\\_99\\_us.html](http://www.ign.fr/sfpt/manifestations/paris_99_us.html)

(French version) [http://www.ign.fr/sfpt/manifestations/paris\\_99\\_fr.html](http://www.ign.fr/sfpt/manifestations/paris_99_fr.html)

WG II/6 www home page: <http://www.cs.cmu.edu/~MAPSLab/isprs.html>

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>From: Adnan Amin <[amin@cse.unsw.edu.au](mailto:amin@cse.unsw.edu.au)>

>Subject: CFP: PAA Special Issue on Document Image Analysis & Recognition

#### CALL FOR PAPERS

##### Pattern Analysis and Applications

Special Issue on  
Document Image Analysis and Recognition  
Spring 2000

Guest Editor  
Adnan Amin

University of New South Wales  
School of Computer Science and Engineering  
Sydney, Australia.

#### INVITATION TO CONTRIBUTE

Optical character recognition and document image analysis have become very important areas of research. Advanced computer and communication technologies now offer better ways to store, retrieve, and distribute this information. Document Image Analysis and Recognition (DIAR) research provides the technology for automated systems for extracting and organizing information from paper based documents. Generally, these applications apply image processing and pattern recognition techniques. A document image may contain text, graphics, pictures, or a combination of these. Some commercial products are already available such as 'OCR' systems for reading pages of machine-printed text, but research is still required to improve their performance on the full range of real-world variability in typography, image quality, and context. Performance evaluation of DIAR systems requires experimental design, a large train and test database, and sophisticated analysis of the results.

The aim of this special issue is to showcase the state-of-the-art achievements in DIAR. Submitted papers should report the solution of a significant open problem: theoretical, algorithmic, and systems-architectural studies are welcome, as are papers describing practical applications supported by performance evaluation on a large scale.

Topics appropriate for this special issue include, but are not limited to:

- o Document analysis algorithms and tools
- o Physical and logical page/image segmentation
- o Character and symbol recognition methods
- o Pre- and Post-processing algorithms

- o Graphical object recognition (e.g. maps and engineering drawings)
- o System performance measures
- o Recognition/Classification methodologies for DIAR systems
- o Innovative and industrial applications

Send four copies of your manuscript (marked "DIAR Special Issue") by April 1, 1999 to the following address.

Sameer Singh  
Editor-in-Chief  
Pattern Analysis and Applications  
Department of Computer Science  
University of Exeter  
EXETER EX4 4PT, UK

For paper submission instructions to authors please see:

<http://www.soc.plym.ac.uk/soc/sameer/paa.htm>

>From: Sudeep Sarkar <[sarkar@bigpine.csee.usf.edu](mailto:sarkar@bigpine.csee.usf.edu)>  
>Subject: CFP: CVIU Special Issue on Perceptual Organization in Computer Vision

In conjunction with the first IEEE Computer Society Workshop on Perceptual Organization in Computer Vision, which was held June 26, 1998 in Santa Barbara (USA), we are pleased to announce the

SPECIAL ISSUE OF  
COMPUTER VISION AND IMAGE UNDERSTANDING on

PERCEPTUAL ORGANIZATION IN COMPUTER VISION  
([http://marathon.csee.usf.edu/~sarkar/cviu\\_po.html](http://marathon.csee.usf.edu/~sarkar/cviu_po.html))

Guest Editors: Kim L. Boyer and Sudeep Sarkar  
[kim@ee.eng.ohio-state.edu](mailto:kim@ee.eng.ohio-state.edu), [sarkar@csee.usf.edu](mailto:sarkar@csee.usf.edu)

THEME: As recognized by the Gestalt school, the importance of perceptual organization (PO) in human vision cannot be overestimated; it imparts both efficiency and robustness to the visual process. Since early demonstrations in the 1980s underscored its usefulness in object recognition, the computer vision community has seen various applications of PO in artificial vision systems such as in stereo matching, model indexing, contour completion, figure-ground segmentation, change detection, and more. Indeed, it can be argued that a reasonable computational model of perception can be built around the notion of repeated detection and classification of organized structure. PO represents much of the often overlooked intermediate level processing in computer vision systems. So, despite these observations, the full potential of PO in artificial vision systems is yet to be realized.

While the Special Issue is being planned to coordinate with the Workshop, the Guest Editors invite submissions from anyone working in the broad area of perceptual organization in computer vision. Topics on which submissions would be welcomed include, but are by no means limited to:

Perceptual organization of photometric primitives in 2D and 3D  
Perceptual organization of motion sequences  
Algorithms and methodologies  
Formalisms and representations  
Organization hierarchies  
Performance comparisons, evaluations, or measures  
Applications of perceptual organization in vision systems  
Use of context and domain knowledge  
Role of learning in perceptual organization.

Send six copies of your manuscript (marked CVIU Special Issue) by October 30, 1998 to the following address. Please refer to author guidelines at <http://RVL4.ecn.purdue.edu/~kak/cviu.html> for details regarding format.

Sudeep Sarkar  
Computer Science and Engineering, 4202 E Fowler Ave., ENB 118  
University of South Florida, Tampa, FL 33620, USA;  
Phone: 813-974-2113,  
email: [sarkar@csee.usf.edu](mailto:sarkar@csee.usf.edu)

Submission deadline: October 30, 1998  
First reviews back to the authors: March 15, 1999  
Revised manuscripts due: April 30, 1999  
Second reviews (if required): June 1, 1999  
Final manuscript due: July 1, 1999  
Publication date: October 1999.

>From: Peter Meer <[meer@caip.rutgers.edu](mailto:meer@caip.rutgers.edu)>  
>Subject: CFP: CVIU Special Issue on Robust Statistical Techniques in Image Understanding

Call for Papers  
COMPUTER VISION AND IMAGE UNDERSTANDING

Special Issue on  
Robust Statistical Techniques in Image Understanding

Submission Deadline: February 15, 1999

Data in image understanding problems is often too complex to be modeled accurately. In the recent years robust vision algorithms have been developed to circumvent this difficulty by employing robust estimators which allow the modeling requirements to be relaxed. The estimators however were derived in the statistics literature for much simpler data and their performance is not guaranteed once underlying assumptions are violated.

Papers are solicited with focus on the theory and practice of using robust statistical techniques to achieve more reliable solutions for image understanding problems. Application domains from any level of the visual hierarchy (low/middle/high) are of interest. Submissions should adhere to the following guidelines.

The basic computational module of the robust method has solid theoretical foundations in statistics.

The performance improvement due to the robust method is demonstrated quantitatively.

The conditions under which the robust method will perform reliably are clearly established and the causes of possible failures are discussed.

The special issue is centered on robustness in image understanding. Papers addressing applications from related fields such as image processing or pattern recognition will be considered in light of their impact on designing better vision algorithms. Review papers, or papers dealing with more theoretical issues are encouraged but should be strongly weighted toward image understanding.

#### GUEST EDITORS

Peter Meer Chuck Stewart David Tyler

Electrical and Computer Computer Science Statistics Department  
Engineering Department Department  
Rutgers University Rensselaer Polytechnic Inst. Rutgers University  
94 Brett Road 110 8th Street 110 Frelinghuysen Road  
Piscataway Troy Piscataway  
NJ 08854-8058 NY 12180-3590 NJ 08854-8018

[meer@caip.rutgers.edu](mailto:meer@caip.rutgers.edu) [stewart@cs.rpi.edu](mailto:stewart@cs.rpi.edu) [dt Tyler@caip.rutgers.edu](mailto:dt Tyler@caip.rutgers.edu)

#### PAPER SUBMISSION

Send SIX copies of your paper to one of the guest editors. Please refer to the Instructions for Authors in an issue of Computer Vision and Image Understanding.

#### IMPORTANT DATES

Submission Deadline .....February 15, 1999  
Reviews Returned .....July 30, 1999  
Revision Deadline .....October 15, 1999  
Publication Date..... January 2000

>From: Steven Shafer <[stevensh@microsoft.com](mailto:stevensh@microsoft.com)>  
>Subject: CFP: IEEE Trans IP, Special Issue on Image & Video Proc. for Digital Libs.

#### CALL FOR PAPERS

Special Issue on Image and Video Processing for Digital Libraries  
IEEE Transactions on Image Processing

Digital media and, in particular, images and video data, present many challenging problems in storage, access, and distribution. Large collections of multimedia documents can be found in diverse application domains such as the entertainment industry, education, medical imaging, and geographic information systems. Proposals for the next generation video coding standards (MPEG4 and MPEG7) have emphasis not only on coding but representations that facilitate content-based access and manipulation of coded data. While the individual needs for each of these domains could be quite diverse, they signify the problems and issues facing collections of large heterogeneous documents which include text, images, video, and audio. The image processing community stands to make important contributions to this emerging and important research area.

The IEEE Transaction on Image Processing will be publishing a special issue on Digital Libraries, focusing on Image Processing issues relevant to the creation, management, and utilization of large image and video data sets. Examples of topics of interest include but are not limited to:

Algorithms and schemes for image content-based indexing, searching, and browsing.

Image features for indexing and retrieval.

Visual similarity metrics for image matching.

Compressed domain image/video feature extraction and manipulation.

Spatial and/or temporal segmentation to facilitate indexing and search.

Representing spatial and spatio-temporal relationships of visual objects for search and indexing; optimizing queries that involve such relationships.

Architectures and systems addressing specifically image processing issues for large image/video libraries.

Digital watermarking and data hiding in image and video documents.

Robust and scalable algorithms for multidimensional indexing.

Performance evaluation issues in image/video databases.

Prospective authors should follow the guidelines of the IEEE Transactions on Image Processing, except (a) submit six copies of the manuscript to Professor Manjunath at the address indicated, and (b) a one page summary describing the original contribution, clearly indicating the relevant image processing issues addressed in the research, should accompany each manuscript. Both regular papers and short papers will be considered. The deadline for submission is DECEMBER 1, 1998. The special issue is tentatively scheduled for December 1999.

#### GUEST EDITORS

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Email: [hjzhang@hplhiz.hpl.hp.com](mailto:hjzhang@hplhiz.hpl.hp.com)

>From: "Marcos A. Rodrigues" <[M.A.Rodrigues@dcs.hull.ac.uk](mailto:M.A.Rodrigues@dcs.hull.ac.uk)>  
>Subject: CFP: IJPRAI Special Issue on Invariants for PR and Classification

#### Call for Papers

International Journal of Pattern Recognition and Artificial Intelligence (IJPRAI)

Special Issue on Invariants for Pattern Recognition and Classification

Guest Editor: Marcos A. Rodrigues, BEng, MSc, PhD, MIEEE

Submission of papers: 18 December 1998  
Publication: 1999

#### Aims

Pattern recognition and classification are fundamental concepts for understanding living systems and essential for realising artificial intelligent systems. In the past decade, there has been a strong interest in the theory and applications of invariants to both pattern recognition and classification. Invariants are properties that remain constant under a set of transformations. A considerable number of novel geometric techniques and mathematical models have been used to extract and predict the existence of invariants. The majority of such techniques have been applied to 2D and 3D Computer Vision, such as affine curvatures, quadratic surfaces, Grassmann-Cayley algebra, linear algebra and tensor theory, Clifford algebra, Fourier descriptor and moment invariants, among many others. Applications of such techniques include shape recovery, 3D modelling, motion analysis, feature extraction, device positioning and calibration, feature recognition, etc.

The last decade has also seen a rapidly growing interest in research studying the theory and applications of classifier systems. Many techniques have been explored and proposed as solutions to

classification problems to industrial and medical applications. Some of the techniques include Bayesian classifiers, linear classifiers, quadratic classifiers, k-nearest neighbour classifier, artificial neural networks, and genetic algorithms. Many approaches to the optimization of classifier architectures and parameters have been tested such as domain knowledge, experimental trial and error, evolutionary strategies, evolutionary programming, and hybrid approaches.

#### Scope

The intention of this special issue is to publish papers representative of the state-of-art in the theory and practical applications of invariants and classifier systems. We thus, seek papers on all aspects of invariants and classifier systems from researchers in the following areas (but not limited to):

- Image processing
- Computer vision
- Geometric techniques
- Genetic algorithms
- Hybrid genetic algorithms
- Statistical pattern analysis
- Neural Networks
- Other related areas

#### IJPRAI

The International Journal of Pattern Recognition and Artificial Intelligence (IJPRAI) publishes both applications and theory oriented articles on new developments in the fields of pattern recognition and artificial intelligence. For more details on the Journal you can follow this call for papers link at <http://www2.dcs.hull.ac.uk/aise/ijprai.html>

#### Submission Guidelines

4 (four) hard copies of papers must be submitted to the Guest Editor (see address below). Papers should normally not exceed 5000 words, including a list of references. All contributions should be written in English, include an abstract, a list of keywords and the author's mailing address. All papers will be refereed according to standard IJPRAI refereeing procedures. Please see more details on submission guidelines at <http://www2.dcs.hull.ac.uk/aise/ijprai.html>

#### Important Dates

Submission: 18 December 1998  
Notification: 19 March 1999  
Final version: 31 May 1999  
Publication: 1999

#### Guest Editor's Address

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>From: "Sitt Sen Chok" <[Sitt.Sen.Chok@fcit.monash.edu.au](mailto:Sitt.Sen.Chok@fcit.monash.edu.au)>  
>Subject: CFP: Journal of Visual Languages and Computing

Journal of Visual Languages and Computing  
Special Issue on the Theory of Visual Languages

Volume Ten, Number Four (V10N4), August 1999  
Guest Editors: Kim Marriott and Bernd Meyer

Research on visual language theory is widespread among different groups inside and outside the traditional visual language community. Several subfields of computer science, such as artificial intelligence, diagrammatic reasoning, human computer interaction, formal language theory, graph grammars, and databases, are working on visual languages as well as related neighbouring disciplines like computational linguistics and cognitive science. The growing number of workshops and conferences devoted to visual and diagrammatic representations shows an increasing interest in the theoretical investigation of visual languages as well as in the applicability of such a theory.

The primary aim of this special issue is to strengthen the dialogue between the diverse communities involved by providing a state-of-the-art perspective on the central topics in visual language theory and identifying important future directions for research.

Survey and tutorial papers providing a critical overview of a particular aspect of the field or of a particular class of approaches are especially welcome. Topics of interest include but are not limited to the following:

[ Topic list omitted. Please see the web site for more information. --AKC ]

#### Submissions

Please send 5 copies of your submission to the address below with a cover page containing the title of the paper, the authors(s), and the address

(including email address and fax number) to which correspondence should be sent. Papers must be original and not submitted to any other conference or journal.

Important Dates

30 July 1998 Deadline for receiving papers  
30 November 1998 Notification of authors  
25 February 1999 Deadline for revised papers

Contact Bernd Meyer ([bernd.meyer@acm.org](mailto:bernd.meyer@acm.org)) for more information. Contact Bernd Meyer ([bernd.meyer@acm.org](mailto:bernd.meyer@acm.org)) for more information.

<http://www.pst.informatik.uni-muenchen.de/~bmeyer/JVLC/jvlc-cfp.html>

Submissions should be mailed to

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AUSTRALIA

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>From: Rakesh Kumar [mailto:]; document.write(""); document.write(addy\_text71913); document.write("<Va>"); //-->\n ]  
>Subject: Call for Participation: WACV'98, Princeton, NJ

Call for Participation: WACV'98

IEEE Workshop on Applications of Computer Vision (WACV'98)  
Nassau Inn, Princeton, New Jersey, USA

<http://www.sarnoff.com/conferences/WACV98.htm>

October 19th-21st, 1998

Early registration date deadline: Sept. 25th, 1998

The goal of WACV'98 is to provide a forum in which an international group of industrial, government, and academic researchers can present and discuss the application of computer vision techniques to problem domains of practical significance.

The preliminary program for WACV'98 is attached below. The program consists of 35 contributed papers distributed over 9 single track sessions. The acceptance rate was 33.3% There are also 4 demonstration sessions with a total of 28 demonstrations.

In addition to the contributed papers and demonstrations, the WACV'98 program includes an invited keynote presentation, an invited panel discussion and tours of local vision laboratories (Sarnoff, Siemens, NEC etc.) in the Princeton area.

The invited keynote presentation is titled "Using the latest technical and computer advancements to create the illusion that visual effects were not used at all". It will be given by Rob Legato of Digital Domain. Legato recently won an Academy Award for his work as Visual Effects Supervisor for James Cameron's Titanic".

The title for the panel discussion "Is Vision Ready for Prime Time: Challenges and Opportunities in the World of Entertainment". The tentative list of speakers for the Panel Discussion are: Padmanandhan Anandan (Microsoft), Gerard Medioni (USC), Paul Debevec (UC Berkeley), Bill Freeman (MERL), Luc Robert (INRIA), and Harpreet Sawhney (moderator from Sarnoff).

Registration: For registration please go to the conference web page:  
<http://www.sarnoff.com/conferences/WACV98/Registration.htm>

Hotel Reservations: For making hotel reservations, please call the Nassau Inn at 800-862-7728 or 609-921-7500

When making a reservation state that you are registering for IEEE-WACV'98. The special conference room rate of \$120/- per night is guaranteed for reservations made on or before Friday Sept. 25th 1998.

Schedule/ Sessions FOR WACV '98:  
<http://www.sarnoff.com/conferences/WACV98/WACVSchedule.htm>

Look forward to seeing you at WACV'98

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>From: Robert Laurini <[laurini@ifhpserv.insa-lyon.fr](mailto:laurini@ifhpserv.insa-lyon.fr)>  
>Subject: Call for Participation: ACM GIS'98, Washingtgon, D.C.

6th ACM SYMPOSIUM ON GEOGRAPHIC INFORMATION SYSTEMS

WASHINGTON, D.C., USA November 6-7, 1998

Scope of the symposium: This 6th symposium aims at bringing together all people carrying out research in novel systems based on spatial data and knowledge, within the framework of the 7th International Conference on Information and Knowledge Management (CIKM). The emphasis will be essentially targeted to the development of generic principles and systems in computing based on those applications. Cross-fertilizations and synergies between several applications can help to develop new computing knowledge.

Location: Holiday Inn Bethesda (renamed to "Crowne Plaza" soon),  
8120 Wisconsin Avenue, Bethesda, Maryland 20814 USA,  
Phone: (301) 652-2000; Fax: (301) 652-3806

<http://www.insa-lyon.fr/Laboratoires/LISI/ACMGIS/>

[ The preliminary program, registration forms, etc. can be found on the symposium web site. --AKC ]

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That's all for now.

Your TC10 chairman,

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