

# Newsletter 55, March 1998

TC10 News #55

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Dear TC10 members and friends,

Welcome to issue #55 of TC10 News.

There are plenty of CFP's in this issue. But first, some news about the Third IAPR Workshop on Graphics Recognition (GREC'99). We just obtained official IAPR sponsorship for this workshop. GREC'99 will be held in Jaipur, India, in late September, 1999, immediately following the ICDAR conference in Bangalore, India. In a few days, I will send out the first CFP for GREC'99. Preliminary information about the workshop is available at

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

As at the previous workshops, we should have a graphics recognition contest at GREC'99. If anyone is interested in organizing the contest, please let me know ASAP. The contest could be in any area of graphics recognition. The topic should have a broad enough appeal to attract several participants.

The post-GREC'97 book is now out. I would welcome any comments, suggestions, or criticism.

TC10 News is available on-line at the following URL. Back issues are also archived at this URL.

<http://www.iapr-tc10.or.kr/TC10-News/> Now to the regular CFP's and announcements.

-Atul

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From: NAKANO Yasuaki <[nakano@cs.shinshu-u.ac.jp](mailto:nakano@cs.shinshu-u.ac.jp)>  
Subject: CFP: DAS'98, Nagano, Japan, deadline extension

By the confusion of the information in different files, some authors have believed the deadline as June 30. To include their papers into the review process, we have officially extended the deadline of DAS'98 by June 30, 1998.

Please encourage your colleagues and acquaintances to submit papers by the updated deadline, if they have materials meeting the scope of the Workshop.

Best regards,

Co-Chair, DAS'98

Seong-Whan Lee  
Image Processing Laboratory  
Dept. of Computer Science and Engineering  
Korea University  
Anam-dong, Seongbuk-ku, Seoul 136-701, Korea  
[swlee@image.korea.ac.kr](mailto:swlee@image.korea.ac.kr),

Yasuaki Nakano

Shinshu University  
500 Wakasato, Nagano, 380-8553 JAPAN  
[nakano@cs.shinshu-u.ac.jp](mailto:nakano@cs.shinshu-u.ac.jp)

[ For more information, visit the DAS'98 web site at  
<http://www.korea.ac.kr/DAS98/>

--AKC ]

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From: [SPIE-MEETINGS@spie.org](mailto:SPIE-MEETINGS@spie.org)  
Subject: CFP: SPIE Electronic Imaging '99, San Jose, CA, USA

Electronic Imaging '99 Abstract Due Date

Abstract Due Date: 29 June 1998  
Abstract Due Date for onsite proceedings: 15 June 1998

IS&T/SPIE's 11th Annual Symposium  
Electronic Imaging '99  
Science and Technology  
San Jose Convention Center  
San Jose, California USA  
23 to 29 January 1999

Part of Photonics West '99

NOTE: If you have already contacted our office  
or have already sent your abstract, please  
disregard this notice.

For your convenience the EI99 Call for Papers  
is also available online:  
<http://www.spie.org/info/pw/>

Submit your abstract on the Web:  
[http://www.spie.org/forms/ei99\\_submission\\_form.html](http://www.spie.org/forms/ei99_submission_form.html)

Don't miss this unique opportunity to present your results  
to your colleagues engaged in the full spectrum of electronic  
imaging research and development. Be part of an exchange  
of theoretical, practical, and applications information across  
the gamut of electronic imaging topics.

Abstracts are 250 words maximum. Include author name(s) and  
complete contact information--mailing, fax, e-mail, phone.

E-mail: [pw99call@spie.org](mailto:pw99call@spie.org)  
Web: [www.spie.org/info/pw/](http://www.spie.org/info/pw/)  
Phone: 1 360 676-3290

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From: "ICVGIP'98" <[icvgip@henna.iitd.ernet.in](mailto:icvgip@henna.iitd.ernet.in)>  
Subject: CFP: ICVGIP'98, New Delhi, India (Last Date Extended)

ICVGIP'98 Conference Announcement  
Final Call for papers

Indian Conference on  
Computer Vision, Graphics and Image Processing

December 21-23, 1998  
New Delhi.

General Co-Chairs:  
K. K. Biswas (IIT, Delhi)  
Narendra Ahuja (UIUC)

Program Chairs:  
Santanu Chaudhury (IIT, Delhi)  
Shree K. Nayar (Columbia University, NY)

Organizing Committee Chair:  
R. Bahl (IIT, Delhi)

Programme Committee :

Ramakant Nevatia (Univ of Southern California)  
P. Anandan (Microsoft)  
Vic Nalwa (Lucent)  
Anil Jain (Michigan State University)  
Ramesh Jain (UCSD)  
Baba Vemuri (Univ of Florida, Gainesville)  
Rama Chellappa (UMD)  
Jitendra Malik (Univ of California, Berkeley)  
Sudeep Sarkar (Univ South Florida, Tampa)  
Rangachar Kasturi (Penn State Univ)  
Sameer Singh (Plymouth UK)  
Prabir Bhattacharya (Univ of Nebraska-Lincoln)  
Sankar K. Pal (ISI Calcutta)  
Biswanath N. Chatterjee (IIT Kharagpur)  
Amitabha Mukerjee (IIT Kanpur)  
B.B. Chaudhuri (ISI Calcutta)  
Subhasis Chaudhuri (IIT Bombay)  
U.B. Desai (IIT Bombay)

B. Yegnanarayana(IIT Madras)  
Sukhendu Das(IIT Madras)  
Jayanta Mukerjee(IIT Kharagpur)  
Subhashis Banerjee(IIT Delhi)  
Prem K. Kalra(IIT Delhi)

The Indian Conference on Computer Vision, Graphics and Image Processing is being started as a forum for exchange of ideas among researchers and for promoting future research in these and allied areas.

The first conference in this series is being organized in New Delhi by IIT, Delhi. The conference will feature presentations of reviewed papers in single track, posters and several invited talks.

There will also be sessions where participants (especially from the industry and national research laboratories) can present their work, exchange ideas and receive feedback.

#### INVITED TALKS

The following have agreed to deliver invited talks:

Jim Kajiya  
Olivier Faugeras  
Katsushi Ikeuchi  
Sankar K. Pal  
Chandrajit Bajaj

#### SCOPE

Authors interested in presenting their work are invited to submit complete papers, typically, but not exclusively, in the areas:

Sensors, Segmentation, Grouping  
Physics-based Vision  
Low-level Image Processing, Processing of Satellite data  
Texture Analysis  
Camera Calibration  
Stereo and Multiple-Views Geometry, Un-calibrated vision  
Motion Analysis and Structure from Motion  
Integration of Modules and Cues  
Shape and Object Representation  
Geometric Invariants for Computer Vision  
Object Recognition  
Learning in Computer Vision  
Knowledge based Image Understanding  
Active and Real-Time Vision  
Content-based image retrieval  
Video Data Processing  
Multi-Sensor Image Analysis  
Spatial Reasoning  
Computer Graphics - Synthesis, Modeling, Rendering and Animation  
Visualization  
Virtual Reality, Applications  
Pattern Analysis, Fuzzy and Neural methods  
Document Image Processing  
Medical Image Analysis

It is expected that if the submission is accepted, then one of the authors will attend the conference and present the work.

#### SUBMISSION

Submission is restricted to 15-page complete papers (A4 size, double spaced, 12 pt.) including figures and references.

All papers should include full name and affiliation of each author, mailing address, e-mail address (if available), an abstract (200 words) and a short list of key words.

The work described in the submission should not have already been published elsewhere.

#### PROCEEDINGS

The proceedings of the conference will be published, and will include accepted papers, posters and papers contributed by the invited speakers.

#### IMPORTANT DATES

Deadline for Submission: 30 June 1998  
Notification to Authors : 1 September 1998  
Camera Ready Copy due: 1 October 1998

#### ADDRESS

Authors should send FOUR copies of their paper to:

K. K. Biswas  
ICVGIP'98  
Department of Computer Science and Engineering  
Indian Institute of Technology  
Hauz Khas  
New Delhi, 110016, INDIA

E-mail: [icvgip@iitd.ernet.in](mailto:icvgip@iitd.ernet.in)  
Home page: <http://www.iitd.ernet.in/~icvgip>

#### REGISTRATION FEES

Delegates from Abroad: US \$ 125  
Student Delegates from Abroad: US \$ 75

Delegates from India:  
Industry: Rs 5000  
R & D Organizations: Rs 2000  
Students: Rs 500

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Indian Conference on Computer Vision, Graphics and Image Processing

ICVGIP'98 Secretariat,  
c/o Prof. K. K. Biswas,  
Department of Computer Science and Engineering,  
Indian Institute of Technology,  
Hauz Khas, New Delhi - 110 016  
INDIA

email: [icvgip@iitd.ernet.in](mailto:icvgip@iitd.ernet.in)  
web: <http://www.iitd.ernet.in/~icvgip/>

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From: Matthew Turk [mailto:[mturk@MICROSOFT.com](mailto:mturk@MICROSOFT.com)]  
Subject: CFP: Workshop on Perceptual User Interfaces, San Francisco, CA, USA

#### Announcement and Call for Participation

1998 Workshop on Perceptual User Interfaces (PUI'98)  
November 5-6, 1998  
San Francisco, CA  
<http://research.microsoft.com/PUIWorkshop>

Last October, the first Workshop on Perceptual User Interfaces (PUI'97) was held in Banff, Canada. This meeting began a dialog which will continue this year with the 1998 Workshop on Perceptual User Interfaces (PUI'98), to be held at the Mark Hopkins Inter-Continental Hotel in San Francisco, California. The purpose of the workshop is to bring together researchers from academia and industry with common interests in making human-computer interaction more natural and compelling by integrating perceptual capabilities into the user interface.

The two-day workshop will be structured to facilitate a high degree of interaction. There will be oral and poster presentations of current research, invited talks, focused discussion or break-out sessions, panel discussions, and open discussion time. The meeting directly follows the ACM UIST'98 conference, to be held at a nearby hotel.

Topics of interest include speech and sound recognition, vision-based interfaces, haptics, multimodal interfaces, learning and user modeling, cognitive studies, integrating multiple sources of information, and systems issues associated with perceptual user interfaces.

There are three categories of submissions, due by July 10, 1998:

- (1) FULL PAPER describing original research in areas related to perceptual user interfaces. Accepted papers will be presented orally at the workshop.
- (2) RESEARCH NOTE describing ongoing research and/or demonstrations. Accepted research notes will be presented at a poster/demo session.
- (3) WORKSHOP PROPOSAL describing a panel, break-out session, or mini-workshop, intending to promote and provoke relevant discussion. See the workshop's web site for more detailed submission instructions.

Program committee:  
Matthew Turk (Chair), Matthew Brand, Phil Cohen, Joelle Coutaz, Jim Crowley, Trevor Darrell, Eric Horvitz, Javier Movellan, Sharon Oviatt, Alex Pentland, Byron Reeves, George Robertson, Steven Shafer, Chris Schmandt, Alex Waibel

Important dates:  
July 10, 1998 Submission deadline  
August 21, 1998 Notification of acceptance  
September 25, 1998 Workshop registration deadline

For further information, visit the PUI'98 web site at  
<http://research.microsoft.com/PUIWorkshop>.

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From: Projet VIRSBS <[virsbs@lamisun1.epfl.ch](mailto:virsbs@lamisun1.epfl.ch)>  
Subject: CFP: AVBPA'99, Washington, DC

#### ANNOUNCEMENT AND CALL FOR PARTICIPATION

Second International Conference on  
Audio- and Video-Based Person Authentication

22-24 March 1999 --- Washington, DC

Audio and video based techniques for the the representation, analysis, and recognition of humans and human actions has become an extremely active area of research in both the audio and video communities. As with the first conference, the Second International Conference on Audio and Video-based Biometric Authentication will bring together researchers from all related areas. One of the goals of the conference is to foster discussion among the different communities and exchange ideas on solving the challenging problems related to both areas.

#### CONTRIBUTIONS

The scientific program will include invited talks and contributed papers. We are soliciting papers in all aspects of audio, video, and image processing of human actions. This includes papers from speech, image processing, computer vision, neuroscience, and psycho-physics that have an algorithmic component. Papers will be evaluated on their relevance to the conference, originality, and empirical results (especially for mature aspects of the fields). Below is a partial list of relevant topics:

- Multi-modal systems
- Fusing of audio and video
- Speaker identification
- Speaker verification
- Face recognition, detection and tracking
- Analysis and synthesis of face and gesture
- Algorithm and system evaluation
- Hand and body movement analysis
- Active vision
- Biometrics
- Computational neuro-models
- Computational psycho-physics
- Other related topics

#### SUBMISSION OF PAPERS

Four copies a paper must be submitted to the address below by the submission deadline by 1 August 1998 (see conference webpage for complete submission instructions).

AVBPA99, c/o Prof. Rama Chellappa  
Rm 4417, A. V. Williams Building  
115 Paint Branch Dr  
University of Maryland  
College Park, MD 20742, USA

Conference Chair  
Larry Davis, UMD

Program Co-chairs  
Rama Chellappa, UMD  
Jonathon Phillips, NIST

Demo Chair  
Harry Wechsler, GMU

Program Committee  
J. Atick, Visionics/Rockefeller  
I. Biederman, USC  
J. Bigun, EPFL  
A. Bobick, MIT  
T. Chen, CMU  
G. Cholet, CNRS  
S. Furui, Toyko Inst. Tech.  
G. Gordon, Interval  
B. H. Juang, Bell Labs  
J. Kittler, U of Surrey  
C. Kyriakakis, USC  
C. von der Malsburg, USC/Bochum  
J. Mason, U of Wales Swansea  
A. Martin, NIST  
A. O'Toole, UT Dallas  
A. Pentland, MIT  
C. Podilchuk, Bell Labs  
S. Shamma, UMD  
D. Stork, Ricoh/Stanford  
M. Turk, Microsoft  
J. Weng, MSU

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From: Christiaan Perneel <[Christiaan.Perneel@twma.rma.ac.be](mailto:Christiaan.Perneel@twma.rma.ac.be)>  
Subject: CFP: In Memoriam "Prof Pierre Devijver", Brussels, Belgium

#### CALL FOR PAPERS

International Symposium on Pattern Recognition

## "IN MEMORIAM PIERRE DEVIJVER"

February 12, 1999  
Brussels, Belgium

Organized by

SOGESCI-B.V.W.B. (Belgian IAPR Society)  
ROYAL MILITARY ACADEMY

With the collaboration of

PHILIPS BELGIUM  
The SIGNAL & IMAGE CENTRE of the Royal Military Academy  
THOMSON-CSF ELECTRONICS BELGIUM

Prof. Pierre Devijver graduated in Telecommunications Engineering from the Royal Military Academy of Brussels in 1962.

He left the Belgian army to join the Philips Research Laboratory in Brussels where he assumed the responsibility for research in pattern recognition with applications to speech and image interpretation.

He received his Ph.D. degree from the University of Paris VI in 1977 under

the supervision of Prof. Jean Claude Simon. In 1989 he moved to Brest in France where he became the Scientific Director at the Ecole Nationale Supérieure des Télécommunications (ENST).

Prof. Devijver gained international recognition for his contributions to statistical approaches of pattern classification. He was one of the founding members of IAPR (International Association for Pattern Recognition).

He served in the capacity of IAPR Secretary, 1st Vice-President and he became IAPR President in 1986 for a period of two years.

Prof. Pierre Devijver died in Brest on 28 December 1996.

(Extracted from a text written by Prof. Josef Kittler, IAPR Newsletters Vol. 19.)

The SOGESCI-B.V.W.B. and the Royal Military Academy of Brussels invite you to attend the International Symposium on Pattern Recognition "In Memoriam Pierre Devijver" which will take place on

Friday, February 12, 1999

at the

Royal Higher Institute for Defense  
Drève St-Anna 90  
B-1020 BRUSSELS (Belgium)

The SOGESCI-B.V.W.B. is the Belgian Operations Research Society and the Belgian representative in IFORS and in IAPR.

The Royal Military Academy (RMA) is providing a Basic Training for career officers of all Arms and Services of the Belgian Armed Forces.

This training consists of intellectual education at university level, military training, physical education and character building.

### Conference Committee

Chairman : Paul GEORIS (Commander of the RMA)

Secretary : Christiaan PERNEEL (RMA)

Members: see Program Committee

### Program Committee

Chairman : Christiaan PERNEEL (RMA)

Members :

Marc ACHEROY (RMA)

Jan CORNELIS (VUB)

Henri LEICH (FPMS)

Philippe VAN HAM (ULB)

Ignace LEMAHIEU (RUG)

Luc VAN GOOL (KUL)

Edgard NYSSSEN (VUB)

Paul DELOGNE (UCL)

Jean-Jacques QUISQUATER (UCL)

Claude VLOEBERGHES (RMA)

Christian WELLEKENS (EURECOM, Fr)

Dirk VAN DYCK (RUCA)

Vinciane LACROIX (RMA)

### Objectives of the symposium

The symposium is intended to be a meeting place for everybody who has known Pierre Devijver as a person or as a scientist.

Also, the symposium is intended to be a meeting place for

researchers, users and potential users of pattern recognition. During the symposium, only the invited speakers will give an oral presentation. The other presentations will be presented during Poster sessions.

#### Invited Speakers

Following personal friends of Prof Devijver agreed to give an invited presentation

- \* Prof Josef Kittler (Surrey, UK) about "Multiple Expert Fusion"
- \* Prof Jean-Claude Simon (Paris, FR) about "Handwritten Character Recognition"
- \* Prof Jean-Paul Haton (Nancy, FR) about "Statistical Models for Speech Recognition"
- \* Prof Erik Backer (Delft, The Netherlands) about "Machine Intelligence"

#### Symposium Topics

High quality papers in the field of the theory/applications of pattern recognition in the large sense are welcome (the list is not exhaustive) :

Feature Extraction Statistical Models Machine Learning  
Fuzzy Models Optimisation Object Recognition  
Hierarchical Models Image Interpretation Speech Interpretation  
Medical Applications Computer Vision Morphology

#### Call for Papers

- \* Authors are invited to submit extended abstracts or full papers (up to 6 A4 pages).  
The abstract/paper should include a list of keywords and the name, address and Email of the author(s)
- \* Dead-line for submission of abstracts : October 15, 1998.
- \* Authors will be notified of acceptance of their presentation before December 1, 1998.
- \* Dead-line for the camera-ready paper : January 15, 1999.
- \* The final length of the accepted paper will be 6 pages A4. Papers longer than 6 pages may be rejected.
- \* The camera-ready copy must be accompanied by registration and payment by presenting author.
- \* The number of accepted papers will be limited.

#### Registration and Submission of Abstracts/Papers

The enclosed registration form and submitted abstracts should be mailed to :

C.PERNEEL  
Royal Military Academy - TWMA  
30 Av de la Renaissance  
B-1000 BRUSSELS (Belgium)  
Or by Email to [Christiaan.Perneel@twma.rma.ac.be](mailto:Christiaan.Perneel@twma.rma.ac.be)

#### Registration Fee

The registration fee is limited to 600 BEF for registration, coffee breaks, lunch and proceedings. The registration fee has to be transferred to the account number 210-0620424-64 of ASBL Renaissance VZW co/ ERM-KMS Av de la Renaissance 30 B-1000 BRUSSELS Belgium

with the mention : "Devijver-ELEC-A11-" and the name of the person(s) for whom the payment is being made. All bank costs are in charge of the participant. After February 1st , 1999, registration fees are raised to 1000 BEF.

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Reply Form "In Memoriam Pierre Devijver"  
To be mailed to

Royal Military Academy  
Christiaan PERNEEL  
30 Av de la Renaissance  
B-1000 Brussels  
BELGIUM

Or

[Christiaan.Perneel@twma.rma.ac.be](mailto:Christiaan.Perneel@twma.rma.ac.be)

\* I enclose an extended abstract of the following paper that I wish to present (as a Poster) during the "In Memoriam Pierre Devijver"

Title :  
.....

Authors :

.....

\* I register for the symposium "In Memoriam Pierre Devijver"

\* I transfer the amount of ..... BEF (all bank costs are in charge of the participant) to the order of

210-0620424-64  
of ASBL Renaissance VZW  
co/ ERM-KMS  
Av de la Renaissance 30  
B-1000 BRUSSELS  
Belgium

with the mention of "Devijver-ELEC-A11-" and the name of the person(s) for whom the payment is being made.

Last Name

.....

First Name

.....

Institution

.....

Department

.....

Street .....

Postal Code

.....

City .....

Country .....

Telephone/FAX

.....

Email .....

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From: [icmcs99@dsi.UNIFI.IT](mailto:icmcs99@dsi.UNIFI.IT)  
Subject: CFP: IEEE Multimedia Systems '99, Firenze, Italy

IEEE MULTIMEDIA SYSTEMS '99, INTERNATIONAL CONFERENCE ON MULTIMEDIA COMPUTING AND SYSTEMS (IEEE ICMCS'99)

CENTRO AFFARI, FIRENZE, ITALY  
7-11 JUNE 1999

<http://www.dsi.unifi.it/~icmcs99>

Sponsored by: IEEE Computer Society TC on Multimedia Computing \*  
University of Florence, Italy

\* approval pending

CALL FOR PAPERS

ABOUT IEEE MULTIMEDIA SYSTEMS '99

IEEE MULTIMEDIA SYSTEMS '99 (IEEE ICMCS'99, for short) is the 6th edition of the International Conference on Multimedia Computing and Systems organized by the Institute of Electrical and Electronics Engineers and sponsored by the IEEE TC on Multimedia Computing. IEEE ICMCS is an annual conference aiming at bringing together researchers, developers and practitioners from academia and industry, working in Multimedia. The conference is devoted to presenting and exploring scientific and technological advancements and innovations in the area of Multimedia, as well as to demonstrate new opportunities in Multimedia applications. We encourage submissions of scientific and technical papers, panel, tutorial, workshop and poster proposals. Conference topics include but are not limited to:

OPERATING SYSTEM SUPPORT

Network and resource management  
Quality of service control/scheduling  
Audio and video compression  
Multimedia database management

DISTRIBUTED MULTIMEDIA

Multimedia on the Internet



Web servers and services  
Intelligent network architectures  
Mobile network architectures

#### HUMAN COMPUTER INTERACTION

Advanced man-machine interfacing  
Visual languages and computing  
Multimodal interaction  
Virtual and augmented reality

#### MULTIMEDIA DATABASES

Digital libraries  
Image, video, audio content analysis  
Content-based indexing/retrieval  
Browsing and visualization

#### MULTIMEDIA TOOLS

Special hardware devices  
MPEG, Quicktime, Windows API standards  
Java, VRML and Multimedia languages  
Multimedia authoring tools  
Multimedia software engineering tools  
Animation and computer graphics  
Pattern recognition, image processing

#### MULTIMEDIA APPLICATIONS

Educational applications  
Art and Multimedia  
Cultural heritage Multimedia applications  
Medical Multimedia applications  
Electronic commerce  
3D audio and video

#### IEEE MULTIMEDIA SYSTEMS '99 COMMITTEE

GENERAL CHAIR: Alberto Del Bimbo - University of Florence, Italy

#### PROGRAM CHAIRS:

Borko Furht - Florida Atlantic University, USA for America  
Tadao Ichikawa - Hiroshima University, J for Asia  
Arnold W. Smeulders - Amsterdam University, NL for Europe

#### PLANNED COMPANION EVENTS OF IEEE MULTIMEDIA SYSTEMS '99

VISUAL99 - VISual99, the Third International Conference on Visual Information Systems will be held in Amsterdam, the week before IEEE Multimedia Systems '99. Special fares are foreseen for people attending both conferences.

SPECIAL SESSION FOR EUROPEAN PROJECTS - A Special Session, dedicated to ongoing European Projects on Multimedia topics and their applications, is foreseen at IEEE Multimedia Systems '99.

#### SELECTION FOR SPECIAL ISSUES FROM IEEE MULTIMEDIA SYSTEMS '99

SPECIAL ISSUE of IEEE MULTIMEDIA MAGAZINE - Best ranked papers presented at IEEE Multimedia Systems '99 are planned to appear on a special issue of IEEE Multimedia, scheduled by Spring 2000.

SPECIAL ISSUE of MULTIMEDIA TOOLS AND APPLICATIONS JOURNAL - Best ranked papers of IEEE Multimedia Systems '99, presenting advanced multimedia applications are planned to appear on a special issue of Journal of Multimedia Tools and Applications, scheduled by Spring 2000.

Authors of selected papers will be asked to prepare an extended version of their papers for a second review round

#### IEEE MULTIMEDIA SYSTEMS '99 SUBMISSION GUIDELINES

TECHNICAL PAPERS - Technical paper presentations are scheduled to be presented on June 9-11, 1999 and will be published in the Conference Proceedings by IEEE. Submission of technical papers should not exceed 15 single-spaced pages (minimum 10-point typeface), including figures, tables and references. Prototype demonstrations can also be sent to supplement the papers. For the Special Session on European Projects, (see below) submit a 4-page extended summary of the project, including project participants and information, objectives and goals, scientific and technical aspects, and results achieved so far.

Each submission must also include:

- a cover sheet with the author names and affiliations;
- surface and e-mail address of the corresponding author;
- a 10-line long abstract of the paper content;
- a list of max three keywords selected from the Conference.

All submissions by Postal/Fedex mail must be sent to the following address:

IEEE MULTIMEDIA SYSTEMS '99

Dipartimento di Sistemi e Informatica  
University of Florence  
Via S. Marta 3  
50139 Firenze - ITALY

Requests for information must be sent to the following e-mail address:  
[icmcs99@dsi.unifi.it](mailto:icmcs99@dsi.unifi.it)

PANELS - Panel presentations are scheduled for June 9-11, 1999. We are seeking for topics addressing controversial, provocative and innovative issues. Proposals for panels should include a one-page description, a short biography of the panel organizer and the number and names of invited panelists. Panel proposals and information requests should be sent by e-mail to:  
Enrico Vicario - [vicario@dsi.unifi.it](mailto:vicario@dsi.unifi.it)

TUTORIALS - Tutorials are scheduled for June 7-8, 1999. We are seeking for topics that examine innovative and timing subjects of Multimedia. Tutorial proposals should be at most 5 pages long and include a description of the subject matter and a short biography of the instructor. Tutorial proposals and information requests should be sent by e-mail to the Tutorial Chair:  
Enrico Vicario - [vicario@dsi.unifi.it](mailto:vicario@dsi.unifi.it) for Europe  
Shi-Fu Chang - [sfchang@ctr.columbia.edu](mailto:sfchang@ctr.columbia.edu) for America and Asia

DEMONSTRATIONS - Demonstrations are scheduled for June 9-11, 1999. We solicit working prototypes and systems in technical and artistic fields. Submissions should include a two-page description of the demonstration, a demo sample on CD-ROM, WWW or VHS (if available), its technical requirements and a short biography of the demonstration responsible. Demonstration proposals and information requests should be sent by e-mail to the Exhibit and Demonstration Chair:  
Carlo Colombo - [columbus@bsing.ing.unibs.it](mailto:columbus@bsing.ing.unibs.it)

EXHIBITS - The IEEE ICMCS'99 will offer multimedia vendors and publishers an opportunity to publicize their products and interface conference participants worldwide. Displays will include technologies, research prototypes as well as commercial products. Exhibit proposals and information requests should be sent by e-mail to the Exhibit and Demonstration Chair:  
Carlo Colombo - [columbus@bsing.ing.unibs.it](mailto:columbus@bsing.ing.unibs.it)

#### IMPORTANT DATES

Paper submission deadline October 15, 1998  
Notification of paper acceptance January 15, 1999  
Camera ready copy February 15, 1999

Panel, tutorial, demonstration, exhibit deadline December 31, 1998  
Notification of acceptance January 15, 1999

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IEEE MULTIMEDIA SYSTEMS '99 secretary staff  
e-mail: [icmcs99@dsi.unifi.it](mailto:icmcs99@dsi.unifi.it)

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From: [gevers@wins.uva.nl](mailto:gevers@wins.uva.nl) (T Gevers)  
Subject: CFP: VISUAL99 - Visual Information Systems, Firenze, Italy

#### VISUAL99

Third International Conference on Visual Information Systems  
Amsterdam, The Netherlands, June 2-4, 1999

<http://www.wins.uva.nl/events/VISual99>  
E-mail: [VISual99@wins.uva.nl](mailto:VISual99@wins.uva.nl)

#### CALL FOR PAPERS

Papers due: 15 November 1998  
Notification of acceptance: 15 January 1999  
Camera ready paper due: 20 February 1999  
Conference: 2-4 June 1999

#### DESCRIPTION:

At the turn of the century, the age of Visual Information Systems (VIS) has arrived. Enabled by picture sensors of all kinds, visual information will not only enhance the value of existing information, it will also open up a new horizon of previously untapped information sources. There is a huge demand for visual information access on the consumer side, and the handling of visual information is further boosted by the rapid increase of hardware and Internet capabilities. The technology for Visual Information Systems is more urgently needed than ever before. What is required are new computational methods to retrieve, index, compress and uncover pictorial information, new algorithms allowing access to very large databases of digital pictures and videos, and new systems with visual interfaces integrating the above components in new types of image databases. The construction of VIS represents a radical departure from building conventional information systems, and many novel issues will need to be addressed: query formulation, consistency management, indexing and

assessment of quality.

The conference will include, but is not restricted to, the following topics:

- \* Content-based indexing, search and retrieval
- \* Image databases
- \* Visual data modeling
- \* Visual information system architectures
- \* Feature (invariant) retrieval
- \* Picture representation languages
- \* Query models
- \* Optimization of pictorial queries
- \* Compression and image content
- \* Visualizing pictorial and non-pictorial information
- \* Hypermedia of picture and text
- \* Parallel processing in visual information systems
- \* Image crawling the web
- \* Picture book browsing
- \* Delivery of visual information
- \* Application areas of visual information systems
- \* Interactive segmentation
- \* Video databases
- \* Benchmarking

After the two successful events in Melbourne and San Diego, this is the 3rd Visual Information Systems conference. It also follows the first workshop in Amsterdam on Image Databases and Multi-Media Search.

Conference Chair:

Arnold Smeulders, University of Amsterdam,  
The Netherlands

American Program Chair:

Ruud Bolle, IBM Watson,  
USA

European Program Chair:

Alberto Del Bimbo, University of Florence,  
Italy

Asian Program Chair:

Clement Leung, Victoria University of Technology,  
Australia

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USA

Tosiyasu Kunii, University of Aizu,  
Japan

Clement Leung, Victoria University of Technology,  
Australia

Arnold Smeulders, University of Amsterdam,  
The Netherlands

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Dennis Koelma, University of Amsterdam  
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Remco Veltkamp, Utrecht University  
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Program Committee:

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Inald Lagendijk, The Netherlands  
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Carlo Meghini, Italy  
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Fernando Pereira, Portugal  
Dragutin Petkovic, USA  
Hanan Samet, USA  
Simone Santini, USA  
Stan Sclaroff, USA  
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Stephen Smoliar, USA  
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Michael Swain, USA  
Tanveer Syeda-Mahmood, USA  
Hemant Tagare, USA  
George Thoma, USA  
Remco Veltkamp, The Netherlands  
Jian Kang Wu, Singapore

Visual Information Systems '99 is immediately followed by the Sixth International Conference on Multi Media Computing and Systems, IEEE ICMCS99 (<http://www.dsi.unifi.it/ICMCS99>), to be held in Florence, Italy, starting the weekend after Visual Information Systems '99.

The conference is organized with the endorsement of  
IEEE (approval pending)  
IAPR (approval pending)  
the NVPHBV, the Dutch chapter of the IAPR  
TC12 for multi-media information processing of the IAPR

PAPER SUBMISSION:  
Authors should submit three copies of their paper to the Conference Chair:

Prof. Arnold W.M. Smeulders  
Faculty of WINS  
Department of Computer Science & Logic  
University of Amsterdam  
Kruislaan 403  
1098 SJ Amsterdam  
The Netherlands  
Telephone: +31-20-525-7463  
Facsimile: +31-20-525-7490

to admit review by members of the program committee. As the conference papers will be published as a book in the Springer LNCS series, the format of the paper should follow the Lecture Notes in Computer Science series LNCS-style sheet from Springer Verlag GmbH. The number of pages is limited to 8 in this style sheet. The first page should include the authors' names, affiliation, telephone and fax numbers, postal and email addresses and an abstract. Papers will be reviewed internationally. Detailed instructions for final manuscript preparation will be sent at the time of acceptance notification, and will also be available from the Web page. Accepted papers must be presented at the conference with prior registration of the presenting author in order for the paper to be included in the proceedings.

IMPORTANT DATES:  
Papers due: 15 November 1998  
Notification of acceptance: 15 January 1999  
Camera ready paper due: 20 February 1999  
Conference: 2-4 June 1999

INFORMATION:  
Conference information: <http://www.wins.uva.nl/events/VISual99>  
E-mail: [VISual99@wins.uva.nl](mailto:VISual99@wins.uva.nl)  
LNCS style sheet: <http://www.springer.de/comp/lncs/authors.html>

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From: ICASSP-99 Conference Account <[icassp99@enpc1897.eas.asu.edu](mailto:icassp99@enpc1897.eas.asu.edu)>  
Subject: CFP: ICASSP-99, Phoenix, AZ, USA

#### IEEE ICASSP-99 CALL FOR PAPERS

IEEE Signal Processing Society

1999 IEEE International Conference on  
Acoustics, Speech, and Signal Processing (ICASSP)

March 15-19, 1999 - Civic Plaza, Hyatt Regency

Phoenix, Arizona, USA

<http://icassp99.asu.edu>

Conference Co-Chairs:  
Andreas Spanias and Doug Cochran  
Arizona State University

#### IMPORTANT DATES

- Submission of camera-ready papers to be received by Sept. 14, 1998
- Notification of acceptance to be mailed on Dec. 14, 1998
- Early registration deadline is Jan. 15, 1999

For MORE INFORMATION visit: <http://icassp99.asu.edu>

#### ICASSP-99 TECHNICAL PROGRAM

The IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) is the largest and most comprehensive IEEE conference in the area of signal processing. It encompasses technical presentations, exhibits, tutorials, panels, and social activities.

ICASSP is among the most prominent annual gatherings for the international community of signal processing researchers and practitioners from industry, academia, and government.

ICASSP-99 will be held March 15-19, 1999 in Phoenix, Arizona. The technical program will incorporate papers on all aspects of signal processing. Topics of interest include, but are not limited to:

1. Audio and Electroacoustics
2. Underwater Acoustic Signal Processing
3. Speech Processing
4. Digital Signal Processing
5. Statistical Signal and Array Processing
6. Image and Multidimensional Signal Processing
7. VLSI for Signal Processing
8. Neural Networks for Signal Processing
9. Multimedia Signal Processing
10. Communication Systems and Networking
11. DSP Education
12. Industry DSP Technology Forum\*

Papers dealing with topics outside these categories, especially with new applications, will also be considered. For more details, please visit our web site at <http://icassp99.asu.edu>.

#### \*ICASSP-99 INDUSTRY DSP TECHNOLOGY FORUM

ICASSP-99 will feature a new industrial forum highlighting industrial aspects and applications of signal processing. Papers in this forum will cover both hardware and software issues in industrial signal processing.

Papers on the following topics are encouraged:

- DSP Chips and Architectures
- DSP Tools and Rapid Prototyping
- Communication Technologies
- Multimedia and DTV Technologies
- DSP Implementations of Music, Speech, and Audio Systems
- Adaptive Interference Cancellation
- Automotive Applications
- Defense and Security Applications
- Emerging DSP Applications

Other industrial topics will also be considered. Strong preference will be given to industrial submissions describing innovative product implementations and solutions.

#### SUBMISSION OF PAPERS

Prospective authors are invited to submit six copies of a camera-ready paper, no longer than four pages, including figures and references. Authors should clearly indicate whether the paper is submitted to the ICASSP-99 Technical Program or to the Industry DSP Technology Forum. Submission instructions, cover sheet, copyright form, and additional information are available at the ICASSP-99 web site: <http://icassp99.asu.edu>

#### TUTORIAL PROPOSALS

Tutorials will be held on Monday, March 15, 1999. Brief proposals for tutorials should be submitted by electronic mail to Tong Zhou, ICASSP-99 Tutorials Chair, at [gtz@ece.gatech.edu](mailto:gtz@ece.gatech.edu) before September 14, 1998. These must include a title and outline for the tutorial, contact information for the presenter, and a description of the tutorial materials to be distributed to participants. Proposals may also present additional information to be considered in the proposal evaluation, such as relevant experience of the presenter, novelty and timeliness of the topic, and a description of the target audience.

#### FOR FURTHER INFORMATION

Conference Management Services  
3109 Westchester Avenue  
College Station, TX 77845-7919  
(409) 693-6000 (phone)  
(409) 693-6600 (fax)  
[icassp99@conf-mgmt.com](mailto:icassp99@conf-mgmt.com)

<http://icassp99.asu.edu>

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From: [ijdar@cfar.umd.edu](mailto:ijdar@cfar.umd.edu) (IJДАР)  
Subject: CFP: IJDAR, International Journal on Document Analysis and Recognition

Springer International Presents

The International Journal on Document Analysis and Recognition  
(IJДАР)  
Volume 1 Issue 1

## SUBSCRIPTION INFORMATION AND CALL FOR PAPERS

<http://documents.cfar.umd.edu/IJDAR>  
(including subscriptions and complimentary issue)

It is with great pleasure that we introduce this, the premier issue of the International Journal on Document Analysis and Recognition (IJ DAR). Over the past decade, we have seen the field of document analysis mature from a sparse collection of disjoint research groups publishing in pattern recognition and vision related journals to an organized community with a number of workshops, symposia, conferences and now an archival journal. The work that is being reported both in industry and academia directly addresses problems of interest for office automation, to major industries such as postal processing and financial services, and for the realization of digital libraries. Although optical character recognition has been a fundamental problem from the earliest days of pattern recognition, these problems are driving renewed interest in the field. Document analysis requires the application of techniques from many fields: computer vision, image analysis, pattern recognition and artificial intelligence, as well as knowledge of specialized domains for linguistics, natural language processing and information retrieval.

This journal is dedicated to publishing, in a timely manner, archival-quality manuscripts related to the field of document analysis and recognition. Over the past two years, the editorial board has worked diligently to define and refine the scope of this journal and to put in place a structure that will help us meet these goals. The submission of all manuscripts related to document understanding and processing are welcome, and we especially encourage papers on cutting edge technologies, comprehensive surveys, and special issues on active areas of research.

### Volume 1, Issue 1

Automatic Reading of Cursive Scripts Using a Reading Model and Perceptual Concepts  
Authors: Myriam Cote, E. Lecolinet, M. Cheriet and C. Y. Suen

Document Image Similarity and Equivalence Detection  
Authors: Jonathan J. Hull and John F. Cullen

Matching Document Images with Ground Truth  
Author: John D. Hobby

Projection Profile Based Skew Estimation  
Authors: Junichi Kanai and Andrew D. Bagdanov

Stepwise Recovery of Arc Segmentation in Complex Line Environments  
Authors: Dov Dori and Liu Wenyin

The Advantage of Using an HMM-based Approach for Faxed Word Recognition  
Authors: A. J. Elms, J. Illingworth and S. Procter

Complimentary Issues can be requested through Springer ([subscriptions@springer.de](mailto:subscriptions@springer.de)) or through the IJDAR [www](http://www.cfar.umd.edu/IJDAR) page.

## CALL FOR PAPERS

The International Journal on Document Analysis and Recognition (IJ DAR) will be published by Springer beginning in the first quarter of 1998 with a special issue containing award-quality papers from the 1997 ICDAR.

On behalf of the IJDAR editorial board, we would like to extend an invitation to you to submit a paper for review for publication in IJDAR. Below you will find information about the Aims and Scope of the journal, the editorial board and how to submit manuscripts.

In order to publish high-quality papers quickly we are expediting reviews to three months and publishing within six months!

Please distribute this call for papers as appropriate.

We also encourage you to seek additional information about the journal, subscriptions and submissions on the IJDAR home page:

<http://documents.cfar.umd.edu/IJDAR>

### Subscriptions

#### Annual Subscription Rate

The full annual subscription rate is approximately 248 DM (\$177 US) for institutions and 98 DM for individuals.

#### Society Subscription Rate

A reduced subscription rate for IAPR and ACM society members is 75 DM (or \$45 US).

## Aims and Scope

The large number of existing documents and the production of a multitude of new ones every year raise important issues about efficient handling, retrieval and storage of these documents and the information which they contain. This has led to the emergence of new research domains dealing with the recognition by computers of the constituent elements of documents - including characters, symbols, text, lines, graphics, images, handwriting, signatures, etc. In addition, these new domains deal with automatic analyses of the overall physical and logical structures of documents, with the ultimate objective of a high-level understanding of their semantic content. We have also seen renewed interest in optical character recognition (OCR) and handwriting recognition during the last decade. Document analysis and recognition are obviously the next stage.

Automatic, intelligent processing of documents is at the intersection of many fields of research, especially of computer vision, image analysis, pattern recognition and artificial intelligence, as well as studies on reading, handwriting and linguistics. Although quality document-related papers continue to appear in journals dedicated to these domains, the community will benefit from having this journal as a focal point for archival literature dedicated to document analysis and recognition.

This journal will publish articles of four primary types - original research papers, correspondence, overviews and summaries, and system descriptions. Special issues on active areas of research will be encouraged. We welcome submissions in all areas related to document analysis and recognition. Possible topics include:

Document Image Processing  
Document Models  
Handwriting Models and Analysis  
Character and Word Recognition  
On-line Recognition  
Pen-based Computing  
Multi-lingual Processing  
Physical and Logical Page Analysis  
Graphics Recognition  
Map and Line Drawing Understanding  
Storage and Retrieval of Documents  
Text Analysis and Processing  
Natural Language Issues  
Information Extraction and Filtering  
Performance Evaluation  
Document Authentication and Validation  
Implementations, Applications and Systems

as well as non-traditional topics such as

Processing Text in Other Contexts  
Multimedia and Hypermedia Analysis  
Time-varying Documents  
Distributed Document Collections (Digital Libraries)

## Editorial Board

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Dr. Michael Fairhurst

## Manuscript Preparation

Please see IJDAR WWW Page

E-Mail: [IJDAR@cfar.umd.edu](mailto:IJDAR@cfar.umd.edu)  
WWW: [documents.cfar.umd.edu/IJDAR](http://documents.cfar.umd.edu/IJDAR)

IJDAR Editorial Coordinator  
c/o Center for Automation Research  
University of Maryland  
College Park, MD 20742

Editors  
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Dr. David Doermann Dr. Karl Tombre

Advisory Editor: Azriel Rosenfeld

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From: Ardeshir Goshtasby [mailto:[agoshtas@cs.wright.edu](mailto:agoshtas@cs.wright.edu)]  
Subject: CFP: CVIU Special Issue on Analysis of Volumetric Images

## CALL FOR PAPERS

Special Issue of Computer Vision and Image Understanding on  
Analysis of Volumetric Images

Papers are solicited on topics related to analysis of volumetric images. Volumetric images are images represented by three- or higher-dimensional arrays. These are generated by imaging devices such as medical scanners or simulation procedures. This special issue is devoted to methods that analyze such images. Emphasis will be on techniques that analyze volumetric images as a whole rather than slice by slice. General algebraic, geometric, statistical, topological and structural techniques independent of application are of interest, although innovative techniques that use knowledge about images in a particular domain to analyze images in that domain will also be considered.

### Topics:

0. Image Representation
1. Edge Detection
2. Image Segmentation
3. Feature Selection
4. Image Matching
5. Object Recognition
6. Texture Analysis
7. Elastic and other Models
8. Motion Analysis
9. Invariance
10. Evaluation of Image Segmentation Techniques
11. Surveys

### Important Dates:

Paper Submission: December 1, 1998  
Notification of Initial Acceptance: May 15, 1999  
Deadline for Receiving Revised Papers: August 1, 1999  
Notification of Final Acceptance: October 1, 1999  
Publication Date: December 1999

### Paper Submission:

Send five copies of your paper to one of the guest editors:

Ardeshir Goshtasby, PhD  
303 Russ Engineering Center  
Department of Computer Science and Engineering  
Wright State University  
Dayton, OH 45435

Milan Sonka, PhD  
Department of Electrical and Computer Engineering  
2104 EB  
The University of Iowa  
Iowa City, IA 52242

Jayaram Udupa, PhD  
Medical Image Processing Group  
Department of Radiology  
University of Pennsylvania Medical Center  
423 Guardian Drive  
Blockley Hall, 4th Floor  
Philadelphia, PA 19104-6021

For further information, please contact:

Ardeshir Goshtasby ([agoshtas@cs.wright.edu](mailto:agoshtas@cs.wright.edu))  
Milan Sonka ([milan-sonka@uiowa.edu](mailto:milan-sonka@uiowa.edu))  
Jayaram Udupa ([jay@mipg.upenn.edu](mailto:jay@mipg.upenn.edu))

For manuscript style, please refer to Information for Authors in an issue of Computer Vision and Image Understanding.

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From: Itiel Dror <[dror2@coglit.soton.ac.uk](mailto:dror2@coglit.soton.ac.uk)>  
Subject: CFP: Facial Information Processing, A Multidisciplinary Perspective

## CALL FOR PAPERS

Pragmatics & Cognition announces a special issue on

FACIAL INFORMATION PROCESSING:  
A MULTIDISCIPLINARY PERSPECTIVE

### Guest Editors

Itiel E. Dror and Sarah V. Stevenage

In many senses, faces are at the center of human interaction. At a very basic level, faces indicate identity. However, faces are remarkably rich information carriers. For example, facial gestures may be used as means of conveying intentions. Faces may also permit a direct glimpse into the person's inner self (by unintentionally revealing, for example, aspects of character or mood). Given their salient role, the processing of the information conveyed by faces and its integration with other sources of interactional information raise important issues in cognition and pragmatics.

Research on facial information processing has investigated



these (and other) issues utilizing a variety of approaches and methodologies, and developments in both computer and cognitive sciences have recently carried this research forward. The emerging picture is that there are cognitive subsystems which specialize in different aspects of facial processing. This has been supported by neuropsychological evidence suggesting that brain damaged patients show dissociations between the different aspects of face processing. In addition, research on the development of facial processing abilities, and on aspects of the face itself which affect these processing abilities, has contributed to our understanding of how facial information is perceived.

This special issue of Pragmatics and Cognition is intended to provide a common forum for a variety of the topics currently under investigation. Given the breadth of issues and approaches used to investigate faces, we encourage submissions from a wide range of disciplines. Our aim is that this special issue will tie together the diverse research on faces, and show their links and interdependencies.

Deadline for submission: August 1, 1998  
Editorial decisions: November 1, 1998  
Revised papers due: February 1, 1999  
Expected publication: October 1999

Papers should be submitted according to the guidelines of the journal (see WWW URL: <http://www.cogsci.soton.ac.uk/~dror/guideline.html>). All submissions will be peer reviewed. Please send five copies of your submission either to:

Dr. Itiel Dror ([dror@coglab.psy.soton.ac.uk](mailto:dror@coglab.psy.soton.ac.uk)) or:  
Dr. Sarah Stevenage ([svs1@soton.ac.uk](mailto:svs1@soton.ac.uk))

Dept. of Psychology  
Southampton University  
Highfield, Southampton SO17 1BJ  
England

For additional and updated information see WWW URL:  
<http://www.cogsci.soton.ac.uk/~dror/faces.html>  
or contact either of the guest editors.

=====

Itiel E. Dror, Ph.D. <http://www.cogsci.soton.ac.uk/~dror/>  
Department of Psychology [dror@coglab.psy.soton.ac.uk](mailto:dror@coglab.psy.soton.ac.uk)  
University of Southampton Office 44 (0)1703 594519  
Highfield, Southampton Lab. 44 (0)1703 594518  
England SO17 1BJ Fax. 44 (0)1703 594597

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From: Steven Shafer <[stevensh@microsoft.com](mailto:stevensh@microsoft.com)>  
Subject: Call for Workshop and Tutorial Proposals for CVPR 99

Call for  
Workshop Proposals and Tutorial Course Proposals  
Associated with CVPR 99

The CVPR 99 Organizing Committee is soliciting requests for proposals for workshops and tutorial courses that will be held in conjunction with CVPR 99 (Fort Collins, Colorado, June 23-25, 1999). If you are an expert in an area of CVPR and would like to organize an exciting and important workshop or tutorial, we welcome your proposal. Workshop proposals will be reviewed by the PAMI Technical Committee. Tutorial courses will be reviewed by the CVPR 99 Organizing Committee. It is recommended that proposals be submitted by June 19, 1998. Workshop proposals will be presented to the PAMI TC at the meeting held in conjunction with CVPR 98 in Santa Barbara. A representative for your proposal should attend this meeting if at all possible in order to answer any questions. Proposals may be submitted later, but there will be a diminishing chance that the necessary logistics can be carried out in the required time.

For Workshops, the proposal should indicate:

- o Title
- o Chair and organizing committee
- o Expected duration (one day, two day)
- o Description and rationale for the workshop (topic areas, goals)
- o Format (submitted papers?, invited papers?, posters?, demos?)
- o Proceedings?
- o Estimated attendance

For Tutorial courses, the proposal should indicate:

- o Title
- o Organizers
- o Speakers
- o Topic areas
- o Intended audience level (beginning, intermediate, advanced)

Send your proposals to:

Chuck Dyer  
Department of Computer Sciences  
University of Wisconsin  
1210 W. Dayton St.  
Madison, WI 53706

Tel: 608-262-1965  
Fax: 608-262-9777  
E-mail: [dyer@cs.wisc.edu](mailto:dyer@cs.wisc.edu)

---

From: Adnan Amin <[amin@cse.unsw.edu.au](mailto:amin@cse.unsw.edu.au)>  
Subject: Call for Participation: SSPR'98 & SPR'98

Early Registration Deadline: July 1, 1998

Call for Participation  
-----

SSPR98 and SPR98,

7th International Workshop on Structural & Syntactic Pattern Recognition  
2nd International Workshop on Statistical Techniques in Pattern Recognition

Swiss Grand Hotel, Bondi Beach, Sydney, Australia  
August 11-13, 1998

You are invited to participate in the above International workshops on  
Pattern Recognition to be held together at the Swiss Grand Hotel, Bondi  
Beach, Sydney, Australia.

These workshops have traditionally been held in conjunction with ICPR  
-the International Conference on Pattern Recognition.

In 1998 both will be held back-to-back in Australia: SSPR98 & SPR98 in  
Sydney and the 14th ICPR in Brisbane

Regularly updated information including workshop background, lists of  
all accepted papers, registration details, instructions for authors,  
accommodation and other information, can be found at

<http://saishost.cse.unsw.edu.au/ssprspr98/>

For More Information

E-mail :[sspr98@cse.unsw.edu.au](mailto:sspr98@cse.unsw.edu.au)

E-mail :[spr98@cse.unsw.edu.au](mailto:spr98@cse.unsw.edu.au)

The workshop proceedings will be published by Springer-Verlag as Lecture  
Notes in Computer Science.

We look forward to seeing you in Sydney in August.

[ Registration information trimmed. Please visit the web site for  
registration forms. --AKC]

====  
\_--\_ \ Adnan Amin  
/\ School of Computer Science and Engineering Ph 61-2-9385-3974  
\\_--\_\* University of New South Wales Fax 61-2-9385-5995  
v Sydney, NSW 2052 Email [amin@cse.unsw.edu.au](mailto:amin@cse.unsw.edu.au)  
Australia

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From: "Dr. B. M. Mehtre" <[mehltre@cmcdak.cmc.stph.net](mailto:mehltre@cmcdak.cmc.stph.net)>  
Subject: Call for Participation: ECDL98, Heraklion, Crete, Greece

Second European Conference on Research and Advanced Technology for  
Digital Libraries

European European ICS-FORTH University of  
Union Research Crete  
Consortium for  
Informatics and  
Mathematics

19 - 23 September, 1998  
Heraklion, Crete, Greece

<http://www.csi.forth.gr/2EuroDL>  
[ecdl@cc.uch.gr](mailto:ecdl@cc.uch.gr)

[ The deadline for submissions was May 15. Therefore, I am only  
including information on tutorials, demos, and invited talks.  
For further details, you may visit the conference web site. --AKC ]

- PANELS, TUTORIALS AND DEMOS

Detailed information regarding tutorials, demos and panels can be found at the conference web page <http://www.ics.forth.gr/2EuroDL/highlights.html>.

In brief, accepted tutorials for the conference are the following (<http://www.ics.forth.gr/2EuroDL/highlights/tutorials.html>):

1. Standards for interfacing with a digital library  
by Larry Masinter
2. Thesauri for knowledge-based assistance in searching digital libraries  
by Dagobert Soergel
3. Visual Information System  
by Babu M. Mehre
4. Multimedia Information Retrieval, categorisation, and filtering  
by Pasquale Savino and Fabrizio Sebastiani
5. Designing Content for the Web of Tomorrow,  
World Wide Web Consortium sponsored Tutorial  
by Bert Bos
6. Metadata on the Web: the Resource Description Framework (RDF),  
World Wide Web Consortium sponsored Tutorial  
by Janne Saarela
7. Metadata for Networked Resources  
by Renato Iannella, Carl Lagoze and Stuart Weibel

A tutorial registration form will be available shortly from our web pages.

Accepted panels for the conference (<http://www.ics.forth.gr/2EuroDL/highlights/panels.html>):

1. Interaction Design in Digital Libraries  
Panelists: Constantine Stephanidis, David Benyon, Mark Maybury,  
Daniel Dardailler, Dan Diaper
2. Digital Video Libraries: Providing Access to the Moving Image  
Panelists: Richard Paterson, Rachel Hughes, Robin Wright, Bruce Tonkin
3. Digital Library Technologies in Health Care  
Panel Coordinator: Prof. Stelios Orphanoudakis
4. Architectures and services for cultural heritage information  
Panel Coordinator: Panos Constantopoulos
5. Metadata and content-based approaches to resource discovery  
Panel Organizers: Thomas Baker and Judith Klavans

Accepted demos for the conference (<http://www.ics.forth.gr/2EuroDL/highlights/demos.html>):

1. Liberation  
by Robert Stubenrauch
2. Aquarelle  
by Vassilis Christophides
3. Aontas: The CaberNet Technical Report and Abstracts Service  
by Frank Siqueira
4. The Low-Cost Digital Library  
by Philip Konomos
5. Multilingual Informedia: A Demonstration of Speech Recognition and  
Information Retrieval across Multiple Languages  
by Howard Wactlar
6. ARHON: A Multimedia Database Design for Image Documents  
by Kostas Chandrinou
7. Nara Institute of Science and Technology (NAIST) Digital Library System  
by Hideki Sunahara
8. The Document Management System SAROS/Mezzanine  
by Norbert Lossau
9. Unicode-based Digital Library Interface  
by Sarantos Kapidakis
10. ERCIM Technical Reference Digital Library  
by Stefania Biagioni
11. CiBIT: Biblioteca Telematica Italiana. A Digital Library for the  
Italian Cultural Heritage  
by Eugenio Picchi
12. INTEX: Searching Information in Full Text  
by Maurice Gross
13. Calliope: an experiment in Digital Libraries  
by Catherine Alauzun

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- Invited Speakers  
<http://www.ics.forth.gr/2EuroDL/highlights.html#speakers>

\* Dr. Donald F. Ferguson  
Senior Manager IBM T.J Watson Research Center,  
IBM Academy, USA  
Software Systems and Middleware for Information Economies and  
Digital Libraries

\* Dr. James J. O'Donnell  
Professor of classical studies,  
Vice Provost for Computing  
University of Pennsylvania, USA  
The Digital Library in the University: How We Use it

\* Dr. Amy Friedlander  
CNRI, Editor of the D-Lib Magazine  
Dr. William Y. Arms  
CNRI, Publisher of the D-Lib Magazine  
Publishing at the Speed of Web-Light; Experiences from D-Lib Magazine

\* Mark T. Maybury  
Advanced Information Systems Center, The MITRE Corporation

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- Special Sessions

<http://www.ics.forth.gr/2EuroDL/highlights.html#sessions>

A special session on "Digital Library Technologies for Libraries" will be held during the conference. Detailed information can be found at the conference web site.

Session organiser: Ann Okerson

Speakers: Diann Rusch-Feja, John Price-Wilkin, Chris Rusbridge

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- Proceedings

The Proceedings will be published by Springer as a volume in their Lecture Notes in Computer Science series and will be distributed at the Conference.

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- Fellowship for Young Researchers

A limited number of fellowships for the Conference and also for Tutorials are available for young researchers who are citizens of European Union countries or Liechtenstein, Norway and Iceland. The fellowship offers free registration for the participants and, in special cases where necessary and appropriately justified, may pay for or reimburse travel and lodging expenses.

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- Programme Chair

Christos Nikolaou, University of Crete & ICS-FORTH  
Leoforos Knossou, GR-71110 Heraklion, Crete, Greece  
Tel: +30 81 393199,  
Fax: +30 81 210106  
E-mail: [nikolau@cc.uch.gr](mailto:nikolau@cc.uch.gr)

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- Contact Info

For more information regarding this conference contact the conference secretariat,

Rena Kalaitzaki and Maria Stavrakaki  
University of Crete,  
Computer Science Department,  
Tel: +30 81 393504  
Fax: +30 81 393501  
E-mail: [ecdl@cc.uch.gr](mailto:ecdl@cc.uch.gr)

You can subscribe to the announcement list of the "Second European Conference on Research and Advanced Technology for Digital Libraries" by sending electronic mail to '[majordomo@csi.forth.gr](mailto:majordomo@csi.forth.gr)' with body 'subscribe ecld2-announce <your email address>'

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From: Michael Grimaila <[grimaila@dropzone.tamu.edu](mailto:grimaila@dropzone.tamu.edu)>  
Subject: ICIP98 Panel on Image Processing: Past, Present, & Future, Chicago, USA

Dear Colleagues,

Re: IEEE International Conference on Image Processing  
October 5-7, 1998, Chicago, IL, USA  
Panel on "Image Processing: Past, Present, and Future"

To commemorate the 50th anniversary of the IEEE Signal Processing Society, we are organizing a Panel at ICIP98 to assess the past achievements and current status of Image Processing, and to ascertain future research directions.

The Panel will be held on Sunday, October 4, 1998, 4:30-6 pm.  
A tentative list of Panelists:

W. F. Schreiber, MIT  
Rama Chellappa, U. Maryland  
W. K. Pratt, Photon Dynamics  
Murat Kunt, EPFL  
Y. Yasuda, Waseda University  
M. Takagi, Science University of Tokyo  
T. S. Huang, U. of Illinois at Urbana-Champaign (Chair)

Audience participation in the discussions will be particularly encouraged.

I sincerely hope you will be able to come.

Best regards,

Tom Huang

Conference Management Services  
3109 Westchester Ave.  
College Station, TX 77845-7919  
(409) 693-6000  
(409) 693-6600 [fax]  
[mercerc@conf-mgmt.com](mailto:mercerc@conf-mgmt.com)

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From: Dr Kevin Bowyer <[kwb@bigpine.csee.usf.edu](mailto:kwb@bigpine.csee.usf.edu)>  
Subject: Call for Participation: Empirical Evaluation of CV Algorithms, Santa Barbara, CA

Preliminary Program  
IEEE Computer Society Workshop on  
Empirical Evaluation of Computer Vision Algorithms

Sunday, June 21

9:00 - 10:00, Invited Talk.

> The impact of standard databases, benchmarks, and  
generative models on document image analysis research

Henry Baird

Head, Multimedia Messaging Research Dept, Bell Laboratories

10:00 - 10:30, Coffee Break.

10:30 - 12:15, Performance evaluation of algorithms.

> Session chair's overview

Pat Flynn

Electrical Engineering and Computer Science, Washington State University

> A benchmark for graphics recognition systems

Atul Chhabra

Bell Atlantic Network Systems

Ihsin Phillips

Seattle University

> Performance evaluation of clustering algorithms for scalable image retrieval

Mohamed Abdel-Mottaleb, Santhana Krishnamachari, and Nicholas Mankovich

Philips Research

> Analysis of PCA-based face recognition algorithms

Hyeonjoon Moon

Electrical and Computer Engineering, SUNY at Buffalo

P. Jonathon Phillips

National Institute of Standards and Technology

12:15 - 1:45 Lunch Break

1:45 - 3:30, Evaluation of Edge Detectors.

> Session chair's overview

> Analytical and empirical performance evaluation of subpixel line and  
edge detection

Carsten Steger

Technische Universit"at M"unchen, Germany

> Objective evaluation of edge detectors using a formally defined framework

Sean Dougherty and Kevin Bowyer

Computer Science & Engineering, University of South Florida

> Evaluation of edge detection algorithms using a structure from motion task

> Min Shin, Dmitry Goldgof and Kevin Bowyer

Computer Science & Engineering, University of South Florida

3:30 - 4:00, Break.

4:00 - 5:15, Motion.

> Session chair's overview

Sandor Der

U.S. Army Research Laboratory

> Shape of motion and the perception of human gaits}

Jeffrey Boyd

Electrical & Computer Engineering, UC -- San Diego

> James Little

Computer Science, University of British Columbia

> Performance assessment by resampling: rigid motion estimators

Bogdan Matei, Peter Meer and David Tyler

Electrical & Computer Engineering, Rutgers University

Monday, June 22.

9:00 - 10:00, Invited Talk.

> A blinded evaluation and comparison of image registration methods

J. Michael Fitzpatrick

Department of Computer Science, Vanderbilt University

10:00 - 10:30, Coffee Break.

10:30 - 12:00, Aerial Image Analysis and ATR.

> Session chair's overview

Adam Hoover

Electrical and Computer Engineering, UC -- San Diego

> Empirical evaluation of laser radar recognition algorithm using  
synthetic and real data

Sandor Der

U.S. Army Research Laboratory

Qinfen Zheng

Department of Computer Science, University of Maryland

> Empirical evaluation of automatically extracted road axes

Christian Wiedemann, Christian Heipke and Helmut Mayer

Photogrammetry and Remote Sensing, Technische Universit"at M"unchen

12:00 - 1:30, Lunch.

1:30 - 2:45, Modeling Image Formation.

> Session chair's overview

> Fingerprint image enhancement: algorithm and performance evaluation

Lin Hong, Yifei Wan and Anil Jain

Department of Computer Science, Michigan State University

> Sensor errors and the uncertainties in stereo reconstruction

Gerda Kamberova and Ruzena Bajcsy

GRASP Lab, University of Pennsylvania

3:15 - 5:00, Editors' Expectations for Empirical Evaluation in Journal Papers.  
Panel Discussion with Jim Duncan (MedIA), Avi Kak (CVIU),  
Rangachar Kasturi (PAMI), Mohan Trivedi (MV&A)

For registration, housing, and other information, visit the CVPR '98  
WWW site at: <http://www.cs.ucsb.edu/~cvpr98>

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From: [malladi@math.lbl.gov](mailto:malladi@math.lbl.gov) (Ravi Malladi)  
Subject: Call for Participation: WBIA '98, Santa Barbara, CA, USA

#### Final Program

IEEE Workshop on Biomedical Image Analysis  
University of California, Santa Barbara  
June 26-27, 1998

8.30am-9.30am  
Keynote address: Takeo Kanade, CMU Robotics Institute  
Title: Biomedical Image Analysis, Computer Vision,  
and Computer Graphics  
9.30am-9.50am Coffee Break.

Session I: Image Segmentation  
Session Chair: James Duncan  
9.50am - 12.00pm  
1. Title: Three-dimensional model-based segmentation of brain MRI  
Authors: Andras Kelemen, Gabor Szekeley and Guido Gerig  
ETH-Zurich, Switzerland  
2. Title: Combined statistical and geometrical 3D segmentation  
and measurement of brain structures  
Authors: Miguel Angel Gonzalez Ballester, Andrew Zisserman  
and Michael Brady  
Oxford University, UK  
3. Title: Sulcal basins and sulcal strings as new concepts for  
describing the human cortical topography  
Authors: Gabriele Lohmann and D. Yves von Gramon  
Max-Plank Institute, Leipzig, Germany

Lunch 12.00pm-1.15pm

Session II : Variational Splines  
Session Chair: Demetri Terzopoulos  
1.20pm-3.30pm  
4. Title: Constrained thin-plate spline reconstruction of 2D  
deformations from tagged MRI  
Authors: Amir A. Amini, Yasheng Chen, Jean Sun and Vaidy Mani  
Washington University, St. Louis, MO  
5. Title: Features of deformation grids: An approach via singularity theory  
Authors: Fred L. Bookstein  
University of Michigan, Ann Arbor, MI  
6. Title: A new variational shape-from-orientation approach to  
correcting intensity inhomogeneities in MR images  
Authors: Shang-Hong Lai and Ming Fang  
Siemens Corporate Research, Princeton, NJ  
7. Title: Forward deformation of PET volumes using material constraints  
Authors: Gregory J Klein  
Lawrence Berkeley Laboratory, Berkeley, CA

Coffee Break 3.30pm-3.45pm

Session III: Image Segmentation and Representation  
Session Chair: Nicholas Ayache  
3.45-5.45pm  
8. Title: Automatic computation of dense dissymmetry maps  
in 3D brain images  
Authors: Jean-Philippe Thirion, Sylvain Prima,  
Gerard Subsol and Neil Roberts  
INRIA, France  
9. Title: Quantitative study of brain anatomy  
Authors: Mei chen, Takeo Kanade, Henry A. Rowley and Dean Pomerleau  
Carnegie Mellon University, Pittsburgh, PA  
10. Title: Maximum a posteriori segmentation for medical visualization  
Authors: Lyndon S. Hibbard  
Computerized Medical Systems, St. Louis, MO  
11. Title: Joint reconstruction of 2D left ventricular displacement  
and contours from tagged magnetic resonance images using  
Markov random field edge priors  
Authors: Litao Yan and Thomas S. Denney, Jr.  
Auburn University.

Day II:

8.30am-9.30am Invited Talk: W. E. L. Grimson  
Title: Image Guided Surgery  
9.30am-9.50am Coffee Break

Session I: Boundary detection  
Session Chair: Amir Amini  
9.50am- 12.00pm  
1. Title: Consistency and stability of active contours with Euclidean  
and non-Euclidean arc lengths  
Authors: Tianyun Ma and Hemant D. Tagare  
Yale University

2. Title: Automatic motion analysis of tongue surface from ultrasound image sequences  
Authors: Yusuf Sinan Akgul, Chandra Kambhmettu and Maureen Stone  
University of Delaware

3. Title: Intensity-invariant 2D+T acoustic boundary detection  
Authors: Miguel Mulet Parada and J. Alison Noble  
Oxford University, UK

Lunch 12.00pm-1.15pm

Session II : Motion tracking and Matching

Session Chair: Fred Bookstein

1.20pm- 3.30pm

4. Title: The space-time map applied to drosophila Embryogenesis

Authors: Prem Janardhan, Martial Hebert and K. Ikeuchi

E-mail: Carnegie Mellon University, Pittsburgh, PA

5. Title: The integration of automatic segmentation and motion tracking for 4D reconstruction and visualization of musculoskeletal structures

Authors: Jose G. Tamez-Pena, Kevin J. Parker and Saara Totterman

University of Rochester

6. Title: Real-time tracking of contrast bolus propagation

in X-ray peripheral angiography

Authors: Zhenyu Wu and Jian-Zhong Qian

Siemens Corporate Research, Princeton, NJ

7. Title: Matching point features using mutual information

Authors: Anand Rangarajan and James S. Duncan

Yale University

Coffee Break: 3.30pm-3.40pm

Session III: "Applications"

Session Chair: Chris Davatsikos

3.45pm-6.15pm

8. Title: A fast algorithm for generating large tetrahedral 3D finite element meshes from magnetic resonance tomograms

Authors: Ulrich Hartmann and Frithjof Kruggel

Max-Planck Institute, Leipzig, Germany

9. Title: Experimental results of a vision-based burn scar assessment technique

Authors: Leonid V. Tsap, Dmitry B. Goldgof, Sudeep Sarkar

and Pauline S. Powers

University of South Florida, FL.

10. Title: Model based multiscale detection of 3D vessels

Authors: Karl Krissian, Gregoire Malandain and Nicholas Ayache

Inria, France.

11. Title: Preprocessing of fMR datasets

Authors: Frithjof Kruggel, Xavier Descombes and D. Yves von Cramon

Max-Planck Institute, Leipzig, Germany.

12. Title: Shape-based indexing in a medical image database

Authors: W.Zhang, S.Dickinson, S. Sclaroff, J. Feldman and S. Dunn

Rutgers University

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From: Richard Bowden <[richard.bowden@brunel.ac.uk](mailto:richard.bowden@brunel.ac.uk)>

Subject: Call for Participation: BMVA Meeting - The Visual Guidance of Robots

BMVA

British Machine Vision Association and Society for Pattern Recognition

THE VISUAL GUIDANCE OF ROBOTS

One Day BMVA/BRA Technical Meeting to be held on 15 July 1998  
at British Institute of Radiology, 36 Portland Place, London.

Chairperson: Dr Peter Rockett (The University of Sheffield)

10:30 Registration and coffee

10:55 Introduction and welcome, Peter Rockett (University of Sheffield)

11:00 Visual Navigation for Autonomous Agricultural Vehicles, Libor Spacek (University of Essex)

11:40 The Detection of Landmarks by an Undersea Robotic Vision System, V F Leavers & N A Purcell (University of Manchester)

12:20 A View-based Solution to Autonomous Map Building and Path Planning, Anthony Harris & Neil Thacker (University of Sheffield)

13:00 Lunch

14:00 Mobile Robot Obstacle Avoidance from Uncalibrated Monocular Vision, Nick Pears (University of York)

14:40 Application of Lie Algebras to Affine Invariant Visual Servoing, Tom Drummond & Roberto Cipolla (University of Cambridge)

15:20 Tea

15:40 Using Structure from Motion to Model Environments, P.L.Palmer, A.Hilton, P.McLauchlan, A.Manassis and M.Zaman (University of Surrey)

16:20 Summary and discussion

16:30 Closing remarks and finish

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From: espaa <[espaa@soc.plym.ac.uk](mailto:espaa@soc.plym.ac.uk)>  
Subject: Announcement: PAA Journal Papers

PATTERN ANALYSIS AND APPLICATIONS

SPRINGER-VERLAG LIMITED

FORTHCOMING PAPERS IN THE PAA JOURNAL (Vol.1 , No. 1 , 1998)

Digital Boundary Tracking  
Gabor T Herman, University of Pennsylvania, USA  
David Robinson, University of Canterbury, New Zealand

Combining Classifiers: A Theoretical Framework  
Joseph Kittler, University of Surrey, UK

LED Cosmetic Flaw Inspection System  
Ahmad Fadzil, Institute of Technology-Petronas, Malaysia  
Chu Jenn Weng, Hewlett Packard, Malaysia

Recognition of Legal Amounts on Bank Cheques  
Didier Guillevic, CENPARMI, Concordia University  
Ching Y Suen, CENPARMI, Concordia University

Resolution of Pattern Recognition Problems using a Hybrid  
Genetic/Random Neural Network Learning Algorithm  
Jose Aguilar, Universidad de los Andes, Venezuela  
Adrana Colmenares, Universidad de los Andes, Venezuela

Reclustering Techniques improve Early Vision Feature Maps  
A Cozzi and F Worgotter, Ruhr Universitat Bochum, Germany

Book Reviews

Affective Computing (Rosalind Pickard), MIT Press  
Principal Component Neural Networks-Theory and Applications  
(KI Diamantaras and SY Kung), Jon Wiley

Further information is available through:

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

Journal secretary: Barbara Davies, School of Computing,  
University of Plymouth,  
Plymouth PL4 8AA, UK; e-mail: [espaa@soc.plym.ac.uk](mailto:espaa@soc.plym.ac.uk)

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From: Video Compression Workshop <[videoc@ee.pdx.edu](mailto:videoc@ee.pdx.edu)>  
Subject: Announcement: Video Compression Shortcourse, Portland, Oregon, USA

A 4 and 1/2 Day Intensive Course on  
Image and Video Compression: Fundamentals, Standards and Applications

July 13 - 17, 1998

Portland State University, EE  
Portland, OR 97207-0751, USA

Phone:(503) 725-3806 Fax:(503) 725-3807 E-mail: [eed@ee.pdx.edu](mailto:eed@ee.pdx.edu)

WWW: [http://www.ee.pdx.edu/short\\_courses/image\\_compression/](http://www.ee.pdx.edu/short_courses/image_compression/)

Presented by:

Majid Rabbani M. Ibrahim Sezan Thomas Gardos  
Eastman Kodak Sharp Labs. of America Intel Corporation

COURSE OUTLINE

Introduction  
- Need for compression (application and product examples)  
- Statistical redundancy and perceptual irrelevancy in images and video, examples.  
- Fundamental building blocks of compression algorithm.  
- Transformation/Decomposition: discrete cosine transform (DCT), wavelets.  
- Quantization: scalar uniform, nonuniform, and entropy constrained; Trellis-Coded Quantization (TCQ).  
- Symbol modeling and encoding: Markov models and entropy; Huffman, arithmetic, LZW, and Golomb-Rice coding.

Emerging Technologies

- Wavelet compression (filterbank design, zerotree coding, comparisons to JPEG)  
- Fractal image compression



Image and video compression international standards

The JPEG international Standard

- Lossless JPEG and JPEG-LS
- Baseline JPEG
- JPEG extensions and enhancements
- JPEG implementation issues
- JPEG-2000

Fundamentals of Video Compression

- Motion Estimation
- Pre- and Post-Processing including motion-compensation noise filtering, coding artifact reduction, video format conversion (frame rate conversion and deinterlacing.)

Video Compression Standards

- The MPEG1 standard
- The MPEG2 standard (including discussions on rate control, bit-stream syntax and utilization in Digital Video Disk and Advanced TV standardization).
- The MPEG4 standard (object based coding and object based functionalities)
- The Future: MPEG7
- The H.261, H.263, and H.263+ standards and an update on H.263L development.
- Video compression for Internet applications
- Examples of silicon and board-level implementations of standards.
- Product demonstrations

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Hope to see most of you at ICPR and SSPR/SPR in August.

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)  
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White Plains, NY 10604, USA

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