

# Newsletter 53, November 1997

TC10 News #53

Contents:

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CFP: Int. Conf. on Pattern Recognition, ICPR'98, Brisbane, Australia  
CFP: SSPR'98, Sydney, Australia (Deadline Extended)  
CFP: SPR'98, Sydney, Australia (Deadline Extended)  
CFP: Computer Analysis of Images and Patterns, CAIP'99, Ljubljana, Slovenia  
CFP: Imaging Science, Systems, and Technology, CISST'98, Las Vegas, NV, USA  
CFP: Wkshp. on Applications of Computer Vision, WACV'98, Princeton, NJ, USA  
CFP: Int. Wkshp. on Frontiers in Handwriting Recog., IWFHR'98, Taejon, Korea  
CFP: CVPRIP'98, Research Triangle Park, NC, USA  
CFP: JRTI Special Issue on Hough Transform

CFP: IEEE Joint Symposia on Intelligence and Systems, Washington, DC, USA  
CFP: Vision Geometry VII, San Diego, CA, USA  
CFP: 2nd Int'l Symposium on Intell. Mfg. Systems, IMS'98, Sakara, Turkey  
CFP: Non-Linear Model Based Image Analysis, NMBIA'98, Glasgow, Scotland  
CFP: IEEE Workshop on Perception for mobile agents, Santa Barbara, CA, USA  
CFP: Content-Based Access of Image & Video Libraries, Santa Barbara, CA, USA  
CFP: Autonomous Robots Sp. Issue on Perception-Based Intelligent Robots

Announcement: UNIPEN mailing list  
Announcement: KS Fu Prize Nominations, deadline extended to January 15  
Announcement: Course on Image Processing & Analysis, Univ. of Trieste, Italy

Book Announcement: Machine Learning and Image Interpretation  
Call for Participation: ICCV '98 and related workshops, Bombay, India

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Dear TC10 members and friends,

Due to the long time elapsed since the last issue of the TC10 News, I have to include a lot of CFP's and announcements in this issue.

I have grouped the CFP headings above into two groups. The first group includes CFP's that are likely to be of interest to a large number of TC10 members. The second group includes miscellaneous vision and image processing related CFP's.

Here are the most important announcements.

\* The submission deadline for the GREC'97 post-workshop book is December 15, 1997.

\* ICPR'98 submission deadline is December 15, 1997.

\* SSPR'98 and SPR'98 submission deadlines have been extended to January 15, 1998.

\* The TC10 web site <http://www.iapr-tc10.or.kr> has been updated. Photographs of the GREC'97 social events are now available at the web site. You may access the photographs directly at <http://www.iapr-tc10.or.kr/GREC97>. If anyone has other interesting photographs of the workshop or social events, please send me prints of the photographs; I will place the photos on the web site. I would welcome any comments or suggestions about the web site.

\* Report on the Second Graphics Recognition Contest will soon be available at the TC10 web site. Ihsin Phillips and I have spent the last couple of months improving the design of the synthetic image generation and vector matching methods. Also, we asked all contest participants to send us the optimal parameters of their software for each type of drawing used in the test. Based on these, we ran the tests again.

Now to the full length CFP's and announcements.

-Atul

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From: Ross Walker <[walker@elec.uq.edu.au](mailto:walker@elec.uq.edu.au)>  
Subject: CFP: Int. Conf. on Pattern Recognition, ICPR'98, Brisbane, Australia

ICPR'98: FINAL Call For Papers

14th INTERNATIONAL CONFERENCE on PATTERN RECOGNITION  
BRISBANE CONVENTION AND EXHIBITION CENTRE,  
Brisbane, Queensland., AUSTRALIA  
17 -- 20 August 1998  
<http://www.cssip.elec.uq.edu.au/~icpr98/>

Paper submission deadline: 15 December, 1997  
Notification of acceptance: 16 March, 1998  
Camera-ready copy: 4 May, 1998

## CALL FOR PAPERS

ICPR'98 is the international conference sponsored by the International Association for Pattern Recognition (IAPR). The conference is held every two years and, in 1998, it will be held in Brisbane, Australia. In the tradition of the IAPR organisation, ICPR'98 covers a broad range of topics related to the development of representations and techniques for the encoding, recognition and interpretation of information in most sensing modalities, primarily visual information. Presentations will be made by experts from many different countries and the conference has a strong multicultural flavour.

### General Co-Chairs:

Terry Caelli, Curtin University;  
Anthony Maeder, University of Ballarat.

### Technical Co-Chairs:

Anil Jain, Michigan State University;  
Svetha Venkatesh, Curtin University.

### Local Organisation Chair:

Brian Lovell, University of Queensland

### Tutorial Co-Chairs:

Athula Ginige, University of Technology, Sydney;  
Paul Jackway, University of Queensland

### Conference Track Chairs

#### COMPUTER VISION:

Ray Jarvis, Monash University, Australia  
Robert Bolles, SRI International, USA  
Giulio Sandini, University of Genova  
Nicholas Ayache, INRIA, France  
Yoshiaki Shirai, Osaka University, Japan

#### PATTERN RECOGNITION and ANALYSIS:

Moidin Mohiuddin, IBM Almaden Research Center, USA  
Yasuaki Nakano, Shinshu University, Japan  
Jianchang Mao, IBM Almaden Research Center, USA  
Bob Duin, Delft University of Technology, Netherlands  
Dov Dori, Technion, Israel

#### ALGORITHMS and TECHNIQUES:

Gunilla Borgefors, Swedish Univ. of Agricultural Sciences, Sweden  
Horace Ip, City University of Hong Kong, Hong Kong  
Steven L. Tanimoto, University of Washington, USA  
Ari Visa, Lappeenranta University of Technology, Finland  
Ian T. Young, Delft University of Technology, The Netherlands

#### SYSTEMS and APPLICATIONS:

Saburo Tsuji, Wakayama University, Japan  
Gerard Medioni, University of Southern California  
Heinrich Niemann, Universitaet Erlangen-Nuernberg  
Alex Pentland, The Media Laboratory, MIT  
Ching Y. Suen, Concordia University

ICPR'98 will consist of four parallel tracks where previously unpublished papers will be presented either orally or as posters and include invited papers and special sessions. The program for each stream will be organised by the corresponding Program Committee. The official opening and social events are common for all participants. In addition, a set of tutorials/workshops will be given by prominent researchers the day before the conference.

There will also be a competition involving the running and evaluation of computer vision and pattern recognition techniques on different data sets with known ground truths. Details on this will appear shortly and, for more details, contact Professor Robert Haralick at [haralick@ptah.ee.washington.edu](mailto:haralick@ptah.ee.washington.edu) or visit <http://george.ee.washington.edu>.

Papers should not exceed 10 pages (12 pt, double-line spacing) and on the first page the authors should indicate their names along with affiliations and e-mail addresses, a list of key words and the preferred conference track. Send six copies of the paper to:  
14th ICPR'98, c/o Conventions Queensland,  
PO Box 4044, St. Lucia South, Queensland 4067, AUSTRALIA,  
Ph. +61 7 3870 8831, Fax +61 7 3371 9514  
E-mail: [icpr14@convqld.org.au](mailto:icpr14@convqld.org.au)

Tracks include the following topics:

#### Pattern

Computer Vision Recognition Algorithms Systems  
and Analysis and Techniques and Applications

#### Active-Passive Feature Document

Sensing Extraction Image Coding Analysis  
Curves-Shape Statistical  
Analysis Methods Image Signals Surveillance  
Active Shape Morphology Wavelets Character  
Recognition  
Shape from X Machine Image Mappings Robotics  
Learning

Active Vision Connectionist Visualisation Face/Gesture  
Models Recognition  
Biological Vision Fuzzy Models Auditory Signals Handwriting  
Robotics/Automation Hierarchical Software/Archit. Multi-Media  
Models  
Invariance and Picture  
Geometry Grammars AI Techniques Content Queries  
Functional Vision Geometric Distributed Systems Image  
Reasoning Interpretation  
Grouping and Digital  
Segmentation Optimisation Parallel Systems Libraries  
Object Models Object Syntactic Models Biometry  
Recognition  
Motion Analysis Invariance in Statistical Models GIS -Remote  
Recognition Sensing  
Validation  
and Geometric Methods Medical  
Verification Applications

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Centre for Sensor Signal and / \* \ PHONE: +61 7 38246556 (Home)  
Information Processing | \_ / PHONE: +61 7 33653694  
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Electrical & Computer Engineering \\_ / \\_ / FAX: +61 7 33653684  
Ritchie Labs, Block C, Room 303 @  
The University of Queensland, St Lucia, 4072 BRISBANE AUSTRALIA.  
WWW: <http://www.cssip.elec.uq.edu.au/~walker>

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From: Adnan Amin <[amin@cse.unsw.edu.au](mailto:amin@cse.unsw.edu.au)>  
Subject: Deadline Extended: SSPR'98, Sydney, Australia

DEADLINE FOR SSPR'98 IS EXTENDED TO JANUARY 15, 1998

SSPR'98 In Australia  
Swiss Grand Hotel, Bondi Beach, Sydney, August 11-13, 1998

The WWW page is <http://www.cse.unsw.edu.au/sspr98.html>

Call For Papers

SUBMISSION DATE: [ EXTENDED TO JANUARY 15, 1998]

You are invited to participate in the 7th International workshop on Structural and Syntactic Pattern Recognition to be held on August 11-13, 1998 at the Swiss Grand Hotel, Bondi Beach, Sydney, Australia.

The Structural and Syntactic Pattern Recognition workshop series has traditionally been held in conjunction with ICPR-the International Conference on Pattern Recognition. In 1998 both will be held back-to-back in Australia: SSPR in Sydney and the 14th ICPR in Brisbane.

Honorary chairman:  
Herbert Freeman,  
Rutgers University, New Brunswick, New Jersey, USA

Co-chairmen:  
Adnan Amin Dov Dori  
School of Computer Science&Engg Faculty of Industrial Engineering &Management  
University of New South Wales Technion, Israel Institute of Technology  
2052 Sydney, NSW, Australia Haifa 32000, Israel  
[amin@cse.unsw.edu.au](mailto:amin@cse.unsw.edu.au) [dori@ie.technion.ac.il](mailto:dori@ie.technion.ac.il)

Program Committee

Keiichi Abe Shizuoka University, Japan  
Thomas Bayer Daimler-Benz Research Center Ulm, Germany  
Ed Breen CSIRO, Australia  
Horst Bunke Bern University, Switzerland  
Terry Caelli Curtin University, Australia  
Its'hak Dinstein Ben Gurion University, Israel  
Rudolf Freund TU Wien, Austria  
Luc Van Gool University Leuven, Belgium  
Robert Haralick University of Washington, Seattle, USA  
Jean-Michel Jolion INSA, France  
Pieter Jonker Delft University, The Netherlands  
Walter Kropatsch TU Wien, Austria  
Hsi-Jian Lee National Chiao Tung University, Taiwan  
Gerald Masini INRIA Lorraine & CRIN/CNRS, France  
John Oommen Carleton University, Canada  
Petra Pernert IBal, Leipzig, Germany  
Ting Chuen Pong University of Science and Technology, Hong Kong  
Phil Robertson Canon Information Systems Research Australia  
Claude Sammut University Of New South Wales, Australia  
Alberto Sanfeliu Polytechnic of Catalonia, Spain  
Gabiella Sanniti di Baja Istituto di Cibernetica, Italy  
Linda Shapiro University of Washington, Seattle, USA  
J. Humberto Sossa Centro Nacional de Calculo-IPN, Mexico  
Sargur Srihari State University of New York, Buffalo, USA  
Karl Tombre INRIA Lorraine & CRIN/CNRS, France  
Patrick Wang Northeastern University, USA  
Kazuhiko Yamamoto Gifu University, Japan

## Aim and Scope

The workshop will provide a forum for presenting and discussing novel research results in areas related to structure and syntax in pattern recognition and their applications. The workshop will focus on the transfer and integration of new theoretical issues into practical applications. Special emphasis will be put on pattern-based methods for storage, retrieval, search and querying. The workshop will feature invited talks, oral paper presentations and poster presentations. Topics include, but are not limited to:

### Theoretical issues and formal methods:

- \* Grammar and language based methods
- \* Structural matching: string, trees, graphs, etc..
- \* Machine learning and grammatical inference
- \* Mathematical morphology in SSPR
- \* Neural-net based structural recognition
- \* Object-Oriented and Object-Process Methodologies
- \* Graph based methods and representations
- \* graph transformations for pattern recognition
- \* image structure from graphs

### Applications:

- \* Shape and motion analysis and planning
- \* Pattern-based information retrieval from image document databases and knowledge bases
- \* Pattern-based 2D and 3D object recognition
- \* Pattern-based search on the Internet and other distribution heterogeneous databases
- \* Applications of SSPR to multimedia systems
- \* Structured document image analysis and recognition
- \* Pattern-based speech recognition

### Submission Procedure:

Papers should describe original and unpublished work. Prospective authors should submit five copies of their contribution(s) by December 1, 1997 to:

SSPR'98 Secretariat  
c/o Adnan Amin (SSPR'98)  
School of Computer Science and Engineering  
University of New South Wales  
Sydney, 2052, NSW, Australia  
Fax: (61 2) 9 385 5995  
Email: [amin@cse.unsw.edu.au](mailto:amin@cse.unsw.edu.au)

The manuscript submitted should be no longer than 10 pages (double space). The first page should contain: title, author's name, affiliation and address, phone/fax number and e-mail address of the contact author. The second page should include a title, a 150-word abstract, and keywords. All manuscripts will be reviewed by at least two members of the program committee. Accepted papers will appear in the proceedings which are expected to be published in the series Lecture Notes in Computer Science (LNCS) by Springer-Verlag, and will be distributed to all participants at the workshop. We do not review papers submitted by facsimile or e-mail.

### Special Issue of Pattern Recognition:

Selected papers from the workshop will be published in a special edition of the journal PATTERN RECOGNITION scheduled for July 1999. Prospective authors will be asked to submit enhanced papers for review at the workshop.

### Important Dates

Extended paper submission deadline :January 15, 1998  
Notification of acceptance: April 1, 1998  
Camera-ready paper due: May 15, 1998

If you intend to participate or would like further information, please send e-mail to:

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

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From: Pavel Pudil <[pudil@utia.cas.cz](mailto:pudil@utia.cas.cz)>  
Subject: Deadline Extended: SPR'98, Sydney, Australia

2nd International Workshop on Statistical Techniques in Pattern Recognition

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

First call for papers and participation

DEADLINE FOR SUBMISSION EXTENDED UNTIL 15 JANUARY 1998

You are invited to participate in the 2nd International workshop on Statistical Techniques in Pattern Recognition (SPR'98) to be held on August

11-13. 1998 at the Swiss Grand Hotel, Bondi Beach, Sydney, Australia.

Honorary Chairman:

Professor Herbert Freeman  
Rutgers University, New Brunswick, USA

Co-chairmen:

Adnan Amin Pavel Pudil  
School of Computer Science&Eng. Inst. of Inform. Theory and  
Automation  
University of New South Wales Academy of Sciences of Czech  
Republic  
2052 Sydney, NSW, Australia 182 08 Prague 8, Czech Republic

[amin@cse.unsw.edu.au](mailto:amin@cse.unsw.edu.au) [pudil@utia.cas.cz](mailto:pudil@utia.cas.cz)

Program Committee

- \* H. Asada, Toshiba Corp. Kansai Lab. Japan
- \* L. P. Cordella, Naples University, Italy
- \* R. P.W. Duin, Delft University of Technology. The Netherlands
- \* F. Ferri, University of Valencia, Spain
- \* D. Geiger, Courant Institute, New York University, USA
- \* M. Gilloux, SRTP, France
- \* N. Gorsky, USSR Academy of Science, USSR
- \* J. Grim, UTIA Acad. of Sciences, Prague
- \* T. M. Ha, University of Berne, Switzerland
- \* L. Hamey Macquarie University, Australia
- \* J. P. Haton, INRIA CRIN France
- \* V. Hlavac, Czech Technical University, Prague
- \* A. Hoffmann, University of New South Wales, Australia
- \* A. K. Jain, Michigan State University, MI, USA
- \* J. Jin, University of New South Wales, Australia
- \* J. Kittler, University of Surrey, U.K.
- \* A. Maeder, University of Ballarat, Australia
- \* J. Novovicova, UTIA Acad. of Sciences, Prague
- \* S. Raudys, Vilnius University, Lithuania
- \* M. Schlesinger, Academy of Sciences, Ukraine
- \* J. Sklansky, University of California, CA, USA
- \* C. Y. Suen, Concordia University, Canada
- \* T. Taxt, University of Bergen, Norway
- \* H. Yan, Sydney University, Australia

Aim and Scope of the Workshop

The workshop aims to promote interaction and collaboration not only among researchers working directly in Statistical Pattern Recognition but also among those specialized in other fields but using or developing statistical techniques. In this relation it is of particular interest to encourage links with many mathematical statisticians, theoreticians and practitioners alike who work at present outside the pattern recognition community. These issues include, but are not limited to, the following issues:

- \* General methodology
- \* Statistical Classification Techniques
- \* Feature Extraction and Feature Selection
- \* Density Estimation
- \* Approximation by Mixtures
- \* Neural Networks
- \* Clustering Techniques
- \* Contextual Methods
- \* Syntactical and Hybrid Methods
- \* Learning Systems
- \* Random Fields
- \* 2D and 3D Object Recognition
- \* Statistical techniques in image processing
- \* Speech and one-dimensional signal analysis.
- \* techniques on document image analysis: handwriting, maps,etc...

Submission Procedure

Papers should describe original and unpublished work. Prospective authors should submit five copies of their contribution(s) by December 1, 1997 to:

Adnan Amin (SPR'98)  
School of Computer Science and Engineering  
University of New South Wales  
Sydney, 2052, NSW, Australia  
Fax: (61 2) 9 385 5995  
Email: [amin@cse.unsw.edu.au](mailto:amin@cse.unsw.edu.au)

The manuscript submitted should be no longer than 10 pages (double space). The first page should contain: title, author's name, affiliation and address, phone/fax number and e-mail address of the contact author. The second page should include a title, a 150-word abstract, and keywords. All manuscripts will be reviewed by at least two members of the program committee. Accepted papers will appear in the proceedings which are expected to be published in the series Lecture Notes in Computer Science by Springer-Verlag, and will be distributed to all participants at the workshop. We do not review papers submitted by facsimile or e-mail.

## Special Issue of Pattern Recognition

Selected papers from the workshop will be published in a special edition of the journal PATTERN RECOGNITION scheduled for July 1999. Prospective authors will be asked to submit enhanced papers for review at the workshop.

### Homepage

Information on the workshop is maintained at

<http://www.cse.unsw.edu.au/~amin/spr98.html>

### Important Dates

Manuscript submission deadline: January 15, 1998  
(not more than 10 pages - see the note above)

Notification of acceptance: April 1, 1998

Camera-ready paper due: May 15, 1998

If you intend to participate or would like further information, please send an email to <[amin@cse.unsw.edu.au](mailto:amin@cse.unsw.edu.au)>

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From: [alesl@razor.fri.uni-lj.si](mailto:alesl@razor.fri.uni-lj.si) (Ales Leonardis)  
Subject: CFP: Int. Conf. on Computer Analysis of Images and Patterns, CAIP'99, Ljubljana, Slovenia

### 8th INTERNATIONAL CONFERENCE ON COMPUTER ANALYSIS OF IMAGES AND PATTERNS CAIP'99

Ljubljana, Slovenia  
1-3 September 1999

<http://razor.fri.uni-lj.si/CAIP99>

Conference Co-chairs:

Franc Solina Ales Leonardis

University of Ljubljana  
Faculty of Comput. and Inform. Science  
Trzaska 25, 1001 Ljubljana, Slovenia

Tel:386 61 1768 389 Tel:386 61 1768 256  
Fax:386 61 1264 647 Fax:386 61 1264 647  
E-mail:[franc@fri.uni-lj.si](mailto:franc@fri.uni-lj.si) E-mail: [ales.leonardis@fri.uni-lj.si](mailto:ales.leonardis@fri.uni-lj.si)

### CALL FOR PAPERS

The CAIP conference is a traditional Central European Conference devoted to all aspects of computer vision, image analysis, pattern recognition and related fields.

The conference is sponsored by IAPR, Slovenian Pattern Recognition Society and IEEE Slovenia Section.

The scientific program of the conference will consist of plenary lectures by invited speakers, contributed papers presented in two parallel sessions and posters. The CAIP proceedings are published by Springer Verlag in the series Lecture Notes on Computer Science and will be distributed to the participants at the conference.

### SCOPE OF THE CONFERENCE

Image Analysis  
Computer Vision  
Pattern Recognition  
Medical imaging  
Network Centric Vision  
Augmented Reality  
Image and Video Indexing  
Industrial Applications

### PROGRAM COMMITTEE

S. Ablameyko, Belarus; J. Arnspang, Denmark; R. Bajcsy, USA; I. Baja, Slovakia; F. Brookstein, Israel; V. Chernov, Russia; D. Chetverikov, Hungary; A. Del Bimbo, Italy; J. O. Eklundh, Sweden; V. Hlavac, Czech Republic; J. Kittler, United Kingdom; R. Klette, New Zealand; W. Kropatsch, Austria; A. Leonardis, Slovenia; R. Mohr, France; M. Schlesinger, Ukraine; W. Skarbek, Poland; F. Solina, Slovenia; G. Sommer, Germany; L. Van Gool, Belgium; M. A. Viergever, Netherlands; S. W. Zucker, USA

### INSTRUCTIONS TO AUTHORS

Authors who wish to present a paper at the conference should send five copies of their paper to one of the two conference chairs marked CAIP'99. To enable double blind review there should be two title pages. The first with title, author's name, affiliation and address, telephone, fax and e-mail, abstract of 200 words and up to three keywords. The second title page should consist only of title, abstract and keywords. The papers excluding

the title pages should not be longer than 10 pages.  
A LaTeX template for the camera-ready version will be available  
on the conference home page.

TIME SCHEDULE:

Deadline for submission of papers: 15 January 1999  
Notification of acceptance: April 1999

VENUE

The conference will be held at the Faculty of Computer and Information  
Science at the University of Ljubljana. Ljubljana is the capital of  
Slovenia. The city which is a lively mixture of mediterranean and  
northern influences offers all amenities within short distance. Alpine  
resorts, the Adriatic coast and several spas are close to Ljubljana.

The conference homepage is: <http://razor.fri.uni-lj.si/CAIP99>

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From: [hra@pollux.cs.uga.edu](mailto:hra@pollux.cs.uga.edu) (Hamid R. Arabnia)  
Subject: CFP: Imaging Science, Systems, and Technology, CISST'98, Las Vegas, NV, USA

C A L L F O R P A P E R S

The 1998 International Conference on Imaging Science,  
Systems, and Technology  
(CISST'98)

<http://www.cps.udayton.edu/~pan/cisst/cisst98/>

July 6-9, 1998  
Las Vegas, Nevada, USA

The 1998 International Conference on Imaging Science, Systems, and  
Technology (CISST'98) will be held in Las Vegas, Nevada, July 6-9,  
1998. All aspects of computer graphics, image processing, and  
pattern recognition are included in CISST.

You are invited to submit a draft paper of about 5 pages and/or a  
proposal to organize a technical session (see below for submission  
information). All accepted papers will be published in the conference  
proceedings.

THE NAMES OF TECHNICAL SESSION CHAIRS WILL APPEAR AS ASSOCIATE EDITORS  
ON THE COVER OF THE CONFERENCE PROCEEDINGS.

SCOPE: Topics of interest include, but are not limited to, the following:

- Image generation, acquisition, and processing
- Image display techniques
- Image data structures and databases
- Convergence of imaging media (video and computer)
- Virtual reality
- Image compression, coding, and encryption
- Tools for multimedia production and services
- Digital imaging for film and television
- Visualization
- Scene and object modeling
- Knowledge acquisition
- Visual inspection
- Document image understanding
- Image algebra
- Optical image processing systems
- Mathematical morphology
- Architecture of imaging and vision systems (including  
parallel architectures and algorithms)
- Neural network techniques and fuzzy logic
- Performance analysis and evaluation
- Software tools and environments for imaging
- Animation
- Geometric modeling and Fractals
- CAD/CAM systems
- Rendering techniques
- Applications including: medicine, robotic, GIS,  
remote sensing, ...
- Other aspects and applications relating to imaging science

SUBMISSION OF PAPERS:

Prospective authors are invited to submit three copies of their  
draft paper (4 to 5 pages) to H. R. Arabnia (address is given  
below) by the due date. E-mail and Fax submissions are also  
acceptable. The length of the Camera-Ready papers (if accepted)  
will be limited to 8 pages. Papers must not have been  
previously published or currently submitted for publication  
elsewhere.

The first page of the draft paper should include: title of the  
paper, name, affiliation, postal address, E-mail address,  
telephone number, and Fax number for each author. The first  
page should also include the name of the author who will be  
presenting the paper (if accepted) and a maximum of 5 keywords.

#### PROPOSAL FOR ORGANIZING TECHNICAL SESSIONS:

Each technical session will have 5/6 paper presentations. The session chairs will be responsible in selecting the papers for their own sessions. The names of session chairs will appear as Associate Editors in the conference proceedings. Proposals to organize technical sessions should include the following information: name and address (+ E-mail) of proposer, title of session, a 100-word description of the topic of the session, and how you plan to advertise the session and select papers for the proposed session. Mail your proposal to H. R. Arabnia (address is given below); E-mail submissions are preferred.

#### EVALUATION PROCESS:

Papers will be evaluated for originality, significance, clarity, and soundness. Each paper will be refereed by two researchers in the topical area. The Camera-Ready papers will be reviewed by one person. (Paper acceptance rate was 24% in last year's conference, CISST'97.)

#### PUBLICATION:

The conference proceedings will be published by CSREA Press (ISBN). The proceedings will be available at the conference. It is planned to select 20 papers for journal publication in related journals (after the conference).

#### ORGANIZERS/SPONSORS:

A number of university faculty members in cooperation with the Monte Carlo Hotel (conference division) will be organizing the conference. The conference is sponsored by the Computer Science Research, Education, and Applications Tech. (CSREA) in cooperation with the Computer Vision Research and Applications Tech. (CVRA), The National Supercomputing Center for Energy and the Environment (USA), developers of high-performance machines and systems (pending) and related computer associations (pending.)

#### IMPORTANT DATES:

February 20, 1998 (Friday): Draft papers (5-page) due  
April 3, 1998 (Friday): Notification of acceptance  
May 22, 1998 (Friday): Camera-Ready papers & Preregistration due  
July 6 - 9, 1998: CISST'98 Conference

Proposals to organize technical sessions should be submitted as soon as possible (well ahead of the February 20 deadline).

All accepted papers are expected to be presented at the conference.

MEMBERS OF PROGRAM & ORGANIZING COMMITTEES: Currently being formed

#### CONFERENCE CONTACT:

Prof. Hamid R. Arabnia  
(CISST'98)  
The University of Georgia  
Department of Computer Science  
415 Graduate Studies Research Center  
Athens, Georgia 30602-7404, U.S.A.  
Tel: (706) 542-3480  
Fax: (706) 542-2966  
E-mail: [hra@cs.uga.edu](mailto:hra@cs.uga.edu)

[ Edited for brevity. For detailed information, see the conference web site listed in the header above. --AKC ]

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From: [rkumar@sarnoff.com](mailto:rkumar@sarnoff.com) (Rakesh Kumar)  
Subject: CFP: Wkshp. on Applications of Computer Vision, WACV'98, Princeton, NJ, USA

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

This workshop will provide an international forum for industrial, academic, and government researchers to present and discuss the application of computer vision to various problem domains of practical significance. Papers will be organized in a single track. In addition, the workshop will feature demonstrations sessions, video sessions and panel discussions. There will also be a half day tour of the local laboratories in the Princeton area (Siemens, NEC, Sarnoff etc.) where vision related demonstrations will be shown to the conference participants.

Original papers are solicited on applications of computer vision that include (but are not limited to) the topics listed below:

\*visual database \*image based rendering  
\*video mosaicing \*cartography and GIS



\*surveillance \*3D sensing  
\*security & law enforcement  
\*space operations \*object recognition  
\*highway/vehicle systems \*robotics  
\*human-computer interaction \*medical image analysis  
\*manufacturing \*industrial inspection  
\*augmented reality \*remote sensing  
\*document analysis & OCR \*face & gesture image analysis

IMPORTANT DATES :

Paper submission deadline: April 1, 1998

Notification of acceptance: May 15, 1998

Camera-ready copy: July 15, 1998

PROGRAM COMMITTEE :

General Chair : Peter Burt (Sarnoff)

Program Chair : Rakesh Kumar (Sarnoff)

Finance Chair : Terry Boulton (Lehigh U.)

Demo/ Video chair: Nassir Navab (Siemens)

Local arrangements chair: Alice Archer (Sarnoff)

Takeo Kanade (CMU) E. Dickmanns (Munich)

Alok Gupta (Siemens) K. Ikuechi (Univ. Of Tokyo)

Shree Nayar (Columbia) P. Anandan (Microsoft)

Shmuel Peleg (HUJI) Zhengyou Zhang (INRIA)

R. Manmatha (UMASS) E. Saund (Xerox)

G. Medioni (USC) David Jacobs (NEC)

H. Sawhney (Sarnoff) Brian Schunk (Adept)

L. Abbot (Univ. of Virginia) Yvan Leclerc (SRI)

SUBMISSIONS:

Four copies of complete manuscripts should be received by April 1, 1998, for review by the program committee. Emphasis should be on novel technical approaches and/or performance evaluation for a given task. Papers (in English) should be submitted in FINAL CAMERA-READY FORMAT with 2 columns on standard (8.5"x11" or A4) pages. Columns should be separated by 5/16" spacing, and should be 3.25" in width and 9" in length. Text should be 10-point type, Times Roman font (or similar). A maximum of 7 pages are permitted for each submission, including references and illustrations. The title, names of authors, affiliations, and e-mail addresses should appear centered near the top of the first page. The authors are also encouraged to send a video demo, or propose a web site for live demos of their work. This additional information would be taken into account by the program committee.

In addition to the manuscript, each submission should contain a summary page that answers the following questions separately:

- (1) What is the application area of the work reported in this paper?
- (2) How far has this work progressed to date?
- (3) What is the primary significance of this work?
- (4) What is the major new contribution of this work ?
- (5) How is this paper related to previously published work?

For more information see :

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

Submissions and any questions should be sent to the following address:

Dr. Rakesh (Teddy) Kumar

201 Washington Road, CN5300 Phone: 609-734-2832

Sarnoff Corporation Fax: 609-734-2662

Princeton, NJ 08540 email: [rkumar@sarnoff.com](mailto:rkumar@sarnoff.com)

Sponsor : IEEE Computer Society

From: Seong Whan Lee <[swlee@image.korea.ac.kr](mailto:swlee@image.korea.ac.kr)>

Subject: CFP: Int. Wkshp. on Frontiers in Handwriting Recog., IWFHR'98, Taejon, Korea

Call for Papers

6th International Workshop on Frontiers in Handwriting Recognition (IWFHR'98)

You are invited to participate in the 6th International Workshop on Frontiers in Handwriting Recognition to be held on August 12~14, 1998 at KAIST in Taejon, Korea. The IWFHR98 will again bring together researchers in academia, industry and government working in the area of handwriting recognition. The program will consist of high quality papers on all aspects of handwriting analysis and interpretation.

Topics:

- \* Handwriting recognition algorithms \* Segmentation techniques
- \* Pre-processing \* Feature extraction
- \* Linguistic post-processing \* Handwriting acquisition
- \* Emerging techniques \* Innovative applications

High quality papers presenting innovative ideas, design principles, theoretical analysis, implementation techniques, programming concepts, experimental results, and in-depth tutorials are solicited. The use of prototypes and demonstration video for presentations is encouraged.

Paper Submission:

You are invited to submit four copies of a full paper no longer than 20 double-spaced pages. 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 should be submitted to the following address:

Prof. Seong-Whan Lee

Department of Computer Science and Engineering, Korea University  
Anam-dong, Seongbuk-ku, Seoul 136-701, Korea  
Tel: (+82)-2-3290-3197, Fax: (+82)-2-926-2168  
E-mail: [swlee@image.korea.ac.kr](mailto:swlee@image.korea.ac.kr)

Important Dates:

February 28, 1998 Paper submission due  
May 31, 1998 Notification of acceptance  
June 30, 1998 Camera-ready manuscripts due

Hosts:

Center for AI Research, KAIST  
Special Interest Group on AI, Korea Information Science Society  
The Korean Society for Cognitive Science  
IAPR TC11

Sponsors:

Samsung Electronics, Ltd.  
LG Electronics, Ltd.  
Handy Soft, Inc.  
Korea R&D Information Center

Other Information:

For more details, visit following web site or use E-mail:

URL <http://ai.kaist.ac.kr/iwfh98>  
E-mail [iwfh98@ai.kaist.ac.kr](mailto:iwfh98@ai.kaist.ac.kr)

Workshop Chair:

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Program Chair:

S.-W. Lee (Korea)

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J. J. Hull (USA)

Program Committee:

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Organizing Committee:

S.-B. Cho (Korea)  
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M. H. Kim (Korea)  
S. H. Kim (Korea)

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From: [cheng@hengda.cs.usu.edu](mailto:cheng@hengda.cs.usu.edu) (Heng-Da Cheng)

Subject: CFP: Computer Vision, Pattern Recog. and Image Proc., CVPRIP'98, Research Triangle Park, NC, USA

CALL FOR PAPERS (CVPRIP'98 <http://www.cs.usu.edu/Conferences/CVPRIP>)

First International Workshop on Computer Vision, Pattern  
Recognition & Image Processing

Research Triangle Park, NC, USA  
Oct. 23-28, 1998

Papers are invited for, but not limited to the following areas:

1. Algorithms: Image enhancement, segmentation, filtering, restoration, texture, analysis, understanding, compression, color image processing, etc. Feature Extraction, Feature Selection, statistical approach, syntactic approach, clustering, etc. Motion, Stereo vision, physics-based vision, CAD-based vision, target/object recognition, etc. Fuzzy Logic, Neural Network, Genetic Algorithm, Wavelet, Fractal, Morphology to CVPRIP

2. Architectures: VLSI and application-driven architectures for CVPRIP.

3. Applications: Applying CVPRIP to medical science, industry, finance, environment, agriculture, transportation, etc.

Authors should submit a summary for each paper. The summary shall not exceed 4 pages of 10 point font, double-column, single spaced text with figures, tables and references. Otherwise, additional page charge will be imposed.

In addition to the summary, authors should provide a cover page to indicate:

CVPRIP'98  
Area  
Originality  
Contact Author (Name, Address, Telephone, Fax and E-mail)

CVPRIP'98 also solicits tutorial proposals for the related fields. The proposal should consist of:

A cover page (Name, Address, Telephone, Fax, and E-mail),  
Abstract should not exceed 500 words  
Supporting materials (outline of the content, objectives, audience, and a bio with no more than 3 pages)

All paper submissions should be sent to:

P. P. Wang  
Dept. of Electrical Engineering  
Duke University  
P. O. Box 90291  
130 Hudson Hall, Science Drive  
Durham, NC27708-0291  
USA  
or

H. D. Cheng  
Dept. of Computer Science  
Utah State University  
Logan, UT84322-4205  
USA

All tutorial proposal submissions should be sent to:

M. B. Ghalia  
Dept. of Electrical Engineering  
Duke University  
P. O. Box 90291  
130 Hudson Hall, Science Drive  
Durham, NC27708-0291  
USA  
or

H. D. Cheng  
Dept. of Computer Science  
Utah State University  
Logan, UT84322-4205  
USA

All submissions must be received by the corresponding deadlines.

Authors will be notified of acceptance or rejection of their submissions by Aug. 1, 1998. Accepted papers will be published in the conference proceedings. Camera-ready paper due is Sept. 10, 1998.

Selected papers will be published in Information Sciences, An International Journal.

Best paper will be decided by the Best Paper Selection Committee.

Special Event: Dr. Lotfi A. Zadeh and Dr. Azriel Rosenfeld will receive the Information Science Award for their pioneer works, and their fundamental and influential contributions to the related fields.

Important Dates

For PAPERS:

June 1, 1998 Paper summary due.

Aug. 1, 1998 Letter of acceptance/rejection to authors.  
Aug. 23, 1998 US\$160 check deposit.  
Sept. 10, 1998 Camera-ready summary papers due.

For TUTORIAL PROPOSALS:

May 1, 1998 Tutorial proposal due.  
June 29, 1998 Notification of decision and tutorials announcement  
Sept. 4, 1998 Camera-ready copy of the tutorial material.  
Oct. 23, 1998 Tutorials date.

Honorary Chair: Thomas S. Huang, U. of Illinois, USA

Chair: Heng-Da Cheng, Utah State U., USA

Program Committee: Sergey Ablameyko, Belarusian Academy of Sciences, Belorussia  
Terry Caelli, Curtin U. of Technology, Australia  
Atul K. Chhabra, NYNEX Sci. & Tech., USA  
Bruce Flinchbaugh, Texas Instruments, USA  
Michal Haindl, Czech Academy of Sciences, Czech Republic  
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Andrew K. C. Wong, Waterloo U., Canada  
Edward Wong, Polytechnic U., USA  
Enhua Wu, Chinese Academy of Sciences, China

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From: Luciano da Fontoura Costa <[luciano@ifqsc.sc.usp.br](mailto:luciano@ifqsc.sc.usp.br)>  
Subject: CFP: JRTI Special Issue on Hough Transform

JOURNAL OF REAL-TIME IMAGING, Academic Press  
SPECIAL ISSUE  
Has the Hough Transform Come of Age?

GUEST EDITORS:

Luciano da Fontoura Costa  
Cybernetic Vision Research Group  
IFSC - University of Sao Paulo, Brazil  
Caixa Postal 369  
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Harry Wechsler  
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WWW: <http://chagall.gmu.edu>

Introduced as a patent in 1962, the Hough transform has motivated great interest as a potentially effective technique for real-time pattern recognition, being applied to the most diverse situations ranging from astronomy to biscuit quality control. Despite the seeming simplicity of the technique, those who have tried to apply it to more demanding problems soon realized that the approach entails a series of not so straightforward problems, such as those caused by the discrete nature of the image and parameter spaces, which have motivated a series of investigations and publications. In fact, some of the most interesting and fruitful works on Hough transform have been characterized by an integrated approach considering the relationships between the Hough transform and other related and complementary areas and techniques such as discrete geometry; projections; Radon, Fourier, and Gabor transforms; and matched filtering, to name but a few.

After so many years of investigations on the Hough transform, a number of questions remain to be answered, such as:

- \* Should the Hough transform be treated as a technique in itself or only a special case of more general concepts? =
- \* Have we fully understood and circumvented the Hough transform shortcomings?
- \* How does the Hough transform compare with alternative techniques?
- \* What are the most effective algorithms for real-time applications?
- \* How can the Hough transform be effectively implemented in software and hardware?
- \* In brief: Has the Hough transform come of age?

Every relevant and original development which can help to answer such questions is welcomed for appreciation for the Special Issue of JRTI.

IMPORTANT DATES:

- \* 15th Jul. 1998 - submission of five copies of the article;
- \* 15th Nov. 1998 - authors informed about acceptance;

The INFORMATION TO AUTHORS can be found at the following address:  
<http://www.hbuk.co.uk/ap/journals/ri.htm>  
All submissions should be forwarded to Luciano da Fontoura Costa  
(address as above).

-----  
From: "Dr. Peggy Israel Doerschuk" <[israel@sal.lamar.edu](mailto:israel@sal.lamar.edu)>  
Subject: CFP: IEEE Joint Symposia on Intelligence and Systems, Washington, DC, USA

#### CALL FOR PAPERS

#### INTERNATIONAL IEEE JOINT SYMPOSIA on INTELLIGENCE and SYSTEMS

Washington, DC, May 21-23, 1998

(Memorial Day is May 25 -- tours will be  
arranged for May 23. Families welcome.)  
Check out our Web page at <http://www-xdiv.lanl.gov/sis>

Sponsored by: IEEE Computer Society

In cooperation with: IEEE CS TAI Conference; AAAI Society; SMC Society;  
NN Society; Robotics and Automation Society; IARP Society; ACM Society;  
BU-CIS Center, UCrete

SCOPE OF SYMPOSIA: The joint Symposia on Intelligence and systems  
offer theoretical and practical media for the constructive interaction  
among scientists and practitioners from different research fields  
(computers, mathematics, physics, biology, medicine, chemistry,  
engineering, etc.) having as goals the development of methodologies  
and tools for the solution of complex problems in neuroscience and  
biology, automation and robotics, image, speech and natural languages,  
and their integration.

General Symposia Chair: N.G. Bourbakis, BU, CIS & UC  
Phone: (607) 777-2165; Email: [bourbaki@binghamton.edu](mailto:bourbaki@binghamton.edu)

#### 3rd IEEE Symposium on INTELLIGENCE in NEURAL and BIOLOGICAL SYSTEMS (INBS)

SOME TOPICS: DNA Sequence Processing, Genome Processes, DNA  
Topologies, Genome Mapping and Sequencing, Molecular Biology,  
Biological Models, Computational Biology, Evolutionary Dynamics,  
Evolutionary Computation Models, Learning, Perception, Models of  
Self Organization, Emergent Phenomena, Artificial and Biological  
Neural Nets, Neuroscientific Models, etc.

Program Chairs: J. Gattiker, LANL and I. Rigoutsos, IBM TJ Watson  
Research Center.  
Phone: (505) 665-0604 & (914) 784-7968;  
Email: [gatt@xdiv.lanl.gov](mailto:gatt@xdiv.lanl.gov) & [rigoutso@watson.ibm.com](mailto:rigoutso@watson.ibm.com)  
Submit summary to: James R. Gattiker, TA3, SM43, MSF645, DP13S, XCM,  
Los Alamos National Laboratory, Los Alamos, NM 87544

#### 3rd IEEE Symposium on INTELLIGENCE in AUTOMATION and ROBOTICS (IAR)

SOME TOPICS: Robot Path Planning, Multiple Robot Motion Planning,  
Autonomous Navigation, Arm/Leg Control, Robot Vision, Visual  
Tracking, Human-Robot Symbiosis, Telerobotics, Micro and  
Nano Robotics, Robot Cooperation, Assembly Strategies, Sensors,  
Walking/Running Robots, Task Planning, Process Planning,  
Scheduling, Intelligent Control, etc.

Program Chairs: A. Tascillo, FORD and P. Israel Doerschuk, LU  
Phone: (313) 845-7427 & (409) 880-8782;  
Email: [atascill@ford.com](mailto:atascill@ford.com) & [israel@sal.lamar.edu](mailto:israel@sal.lamar.edu)  
Submit summary to: Anya L. Tascillo, 16886 Elwell Road,  
Belleville, MI 48111

#### 3rd IEEE Symposium on IMAGE, SPEECH, NATURAL LANGUAGE SYSTEMS (ISNLS)

SOME TOPICS: Image (Coding, Compression, Encryption, Segmentation,  
Enhancement, Restoration, Skeletonization, Analysis, Morphology,  
Databases, Video, Pattern Recognition, OCR, Image Understanding  
& Interpretations, Mathematical Methods);  
Speech (Coding, Compression, Processing, Analysis, Synthesis,  
Recognition, Understanding);  
Natural Language (NL) Processing, Computational Linguistics,  
Document Processing, NL Translation, NL Understanding,  
Multimedia, etc.

Papers on the technical details of the commercial (e.g., consumer  
electronics), scientific, and medical applications of the above are  
encouraged.

Program Chairs: J.S. Mertoguno, FUJITSU and R. Brooks, FUJITSU  
Phone: (408) 922-9599, (408) 922-9520;  
Email: [jmertogu@fmi.fujitsu.com](mailto:jmertogu@fmi.fujitsu.com) & [rbrooks@fmi.fujitsu.com](mailto:rbrooks@fmi.fujitsu.com)  
Submit summary to: Johannes S. Mertoguno, M/S 353, Fujitsu  
Microelectronics Inc., 50 Rio Robles, San Jose, CA 95134

Please send four copies of an extended summary (no more than 6 pages)  
describing the methodology and/or results by Dec. 15, 1997 to the  
appropriate address above. Notification of acceptance (please provide

email address or fax number) by Feb. 1, 1998. Camera ready articles by March 31, 1998. A collection of best papers will be published in an archival Journal and an Award will be given to each best paper per Symposium as well.

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From: [am7a021@GEOMAT-fi.rz.uni-hamburg.de](mailto:am7a021@GEOMAT-fi.rz.uni-hamburg.de) (Longin Jan Latecki)  
Subject: CFP: Vision Geometry VII, San Diego, CA, USA

CALL FOR PAPERS AND ANNOUNCEMENT

VISION GEOMETRY VII (SD91)  
San Diego Convention Center and Marriott Hotel & Marina  
San Diego, California, USA

Part of SPIE's International Symposium on  
Optical Science, Imaging and Instrumentation  
July 19 - 24, 1998

Conference Chairs: Robert A. Melter, Long Island University (Retired)  
Angela Y. Wu, The American University  
Longin J. Latecki, University of Hamburg, Germany.

Program Committee:  
Ari D. Gross, T. Y. Kong (CUNY/Queens Coll.); Jack Koplowitz (Clarkson Univ.);  
David M. Mount (Univ. of Maryland, College Park); Frank Rhodes (Univ. of  
Southampton, UK); Ivan Stojmenovic (Univ. of Ottawa, Canada).

Keynote Speaker: Gabor Herman, University of Pennsylvania

Abstract due date: December 22, 1997  
Manuscript due date: June 22, 1998

This conference is designed to bring together workers who use geometric theory and techniques to solve problems related to computer vision. Specific solutions as well as overviews of more general topics are welcome.

Topics of interest are:  
Digital geometry and topology  
Geometry-based image segmentation  
Morphology related to vision  
Computational geometry related to vision  
Convexity problems in vision

Prospective contributors are invited to submit abstracts of their papers by December 22, 1997, in accordance with the instructions given on the following web page:  
[http://www.spie.org/web/meetings/calls/sd98/sd98\\_submissions.html](http://www.spie.org/web/meetings/calls/sd98/sd98_submissions.html)

Proceedings of this meeting will be published by SPIE. Authors of accepted abstracts will be notified by mail no later than April 26, 1998, and will be required to submit camera-ready manuscripts in English by June 22, 1998.

To receive a complete Call for Papers via postal mail, or to request an Advance Technical Program for this conference (when available), please contact SPIE. Phone: +1 360/676-3290. Fax: +1 360/647-1445.  
E-mail: [SD98@spie.org](mailto:SD98@spie.org)

For further information, contact:

Dr. Longin Jan Latecki  
Department of Applied Mathematics, University of Hamburg  
Bundesstr. 55, 20146 Hamburg, Germany  
Email: [latecki@math.uni-hamburg.de](mailto:latecki@math.uni-hamburg.de)  
Phone: ++49(0)40 4123 5156 \* Fax: ++49(0)40 4123 5117

Dr. Angela Wu, Department of Computer Science and Information Systems,  
American University, Washington, DC 20016-8116. Phone: 202-885-1476.  
Fax: 202-885-1479. E-mail: [awu@american.edu](mailto:awu@american.edu)

---

From: "Ahmet T. Erdogan" <[Erdogan@cardiff.ac.uk](mailto:Erdogan@cardiff.ac.uk)>  
Subject: CFP: 2nd Int'l Symposium on Intell. Mfg. Systems, IMS'98, Sakara, Turkey

-Call for Papers-  
2nd INTERNATIONAL SYMPOSIUM ON  
INTELLIGENT MANUFACTURING SYSTEMS-IMS'98  
Sakarya, Turkey  
August 6-7, 1998

Organized by: Sakarya University, Department of  
Industrial Engineering

Sponsors: IFSA (International Fuzzy System  
Association)  
University of Toronto  
ATSO, BAYRAMIX, CAK ST. GRUP., CEMSAN  
A.S., EBITAS,  
FEDERAL ELEKTRIK, FRUEHAUF, GOOD YEAR, KOCAELI S.O.,=20  
LIST2000, LUCAS, OTYOOL, SANGARI,=20  
TEAS, TIRSAN, TOYOTA-SA, TUVASAS

Conference topics include but not limited to:

Agile manufacturing

## Artificial intelligence technologies

Automation, CNC & robot programming languages, Computational Intelligence, Computer vision, Decision support systems, Data mining, Expert systems, Fuzzy logic, Genetic algorithms, Intelligent agents in manufacturing, Intelligent systems perspectives, Modeling & simulation, Neural networks, Process technologies, Robotics, Semiotics, Inspection and testing, Lean production, Manufacturing systems engineering Manufacturing systems /strategies Product design CAE/CAD/CAM, Group Technologies, Work Planning Production planning / scheduling / control CIM - Computer integrated manufacturing, FMS - Flexible manufacturing systems Rapid prototyping, Simultaneous engineering / Concurrent engineering, Storage & retrieval systems, System design & integration, Quality control / Reengineering, Virtual manufacturing

Keynote Speaker: L.A. Zadeh

Invited Speakers: K. Hirota, A. Kandel, A. Kusiak, M.

Sugeno, I.B. Turksen Special session: Future of

automotive industry 3 panel discussions: Trends in

Automation, Trends in Quality Control, Current State of

Fuzzy Technology for IMS Venue: The symposium will be held

in Esentepe Campus, Sakarya University, Adapazari/Turkey

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I.B.TURKSEN (CA), G.ULUSOY (TR), A.VELLA (UK), H.R.YAZGAN (TR), N.YETIS (TR),

L.A. ZADEH (US)

EXHIBITION: There will be facilities for companies dealing with information technologies and manufacturing

## ADDITIONAL SPECIAL SESSIONS:

The conference will feature several special sessions, tutorials and invited sessions. If you are interested in organizing any of these please contact Prof.Dr. I.Burhan Turksen

## SUBMISSION FORMAT:

Submission of papers are welcomed on the topics outlined above. Once the abstracts are accepted, five copies of full papers in English should be received by the symposium secretariat by 15st of April, 1998. The paper should be structured as follows:

First page: title, authors, mailing address of each

author, telephone and fax numbers, e-mail address

Second page: title authors, 200 word abstract, and the

submission area Third and succeeding pages: title, max

ten pages, figures and references

## PAPER ACCEPTANCE:

The summary of the paper in more than 250 words has to be submitted to the address given below no later than 30.12.1997.

The papers will be evaluated by the International Programme Committee.

Each accepted paper must be presented within a 20 minutes period and

the manuscript must be accompanied by a paid registration. All

conference participant, excluding invited persons, must pay the

conference registration fee and their own travel expenses.

## SUBMISSION ADDRESSES

For Further information contact

[turksen@drill.me.utoronto.ca](mailto:turksen@drill.me.utoronto.ca) (Burhan Turksen, Conference

Chairman) [taskin@esentepe.sau.edu.tr](mailto:taskin@esentepe.sau.edu.tr) (Harun Taskin,

Program Chair) [zis98@esentepe.sau.edu.tr](mailto:zis98@esentepe.sau.edu.tr) (Symposium

Address) or <http://www.sau.edu.tr/en/announcements/ims98.html>

Dr. Ercan =D6ztemel  
Tubitak-Marmara Research Center Information Technology  
Research Institute Artificial Intelligence Group Tel:  
Turkey- (262) 6412300 ext. 4742 Fax: Turkey- (262)  
6412309 Email: [eomam@mam.gov.tr](mailto:eomam@mam.gov.tr)

---

From: Druti Shah <[druti@spd.eee.strath.ac.uk](mailto:druti@spd.eee.strath.ac.uk)>  
Subject: CFP: Wkshp. on Non-Linear Model Based Image Analysis, NMBIA'98, Glasgow, Scotland

Workshop on Non-Linear Model Based Image Analysis  
July 1-3 1998  
Thistle Hotel, Glasgow,  
<http://www.spd.eee.strath.ac.uk/noblesse/nmbia98>

Due to the overwhelming volume of image data it is necessary to have new intelligent methods for image representation and analysis. As well as image coding methods such as MPEG4 and MPEG7 these higher level descriptions will have applications in model based browsing, navigation, keying, interpolation and tracking. The topics below represent key aspects of research which will form the building blocks of future systems and standards.

- \*Object Oriented Coding
- \*Segmentation
- \*Database Retrieval
- \*Image/Video Restoration
- \*Image Models
- \*Video Pre/Postprocessing
- \*Colour in Image Processing

IMPORTANT DATES :

Submission of 2-3 page abstracts 16 January 1998  
Notification of acceptance of abstracts 27 February 1998  
Submission of final camera-ready paper 10 April 1998

PROGRAM COMMITTEE :

General Chairman : Stephen Marshall, Univ of Strathclyde, UK.

H. Burkhardt, Albert- Ludwigs Univ, Freiburg, Germany.  
M. Gabbouj, Tampere Univ of Tech, Finland.  
M. Kunt, Swiss Fed Inst Tech, Lausanne, Switz.  
F. Meyer, Ecole des Mines, Paris, France.  
I. Pitas, Aristotle Univ, Thessaloniki, Greece.  
G. Ramponi, University of Trieste, Italy.  
J. Serra, Ecole des Mines, Paris, France.

Local Organisation : N. Harvey, Univ of Strathclyde.  
D. Shah, Univ of Strathclyde.

Proceedings of this meeting will be published as a book by Springer-Verlag.

More information on paper cover sheet, etc can be found at:  
<http://www.spd.eee.strath.ac.uk/noblesse/nmbia98>

The completed paper cover sheet form together with four copies of your abstract should be sent to:

NMBIA98,  
Signal Processing Division,  
Dept of Electronic and Elect Eng,  
University of Strathclyde,  
204 George Street,  
Glasgow G1 1XW,  
Scotland

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From: Michael Jenkin <[jenkin@cs.yorku.ca](mailto:jenkin@cs.yorku.ca)>  
Subject: CFP: IEEE Workshop on Perception for mobile agents, Santa Barbara, CA, USA

CALL FOR PAPERS

IEEE Workshop on Perception for Mobile Agents

University of California, Santa Barbara

June 26, 1998

Vision has been characterized as the leveraging technology for robotic systems. While mobile agents can provide excellent testbeds for vision algorithms, they also entail substantial and unique challenges. In particular, vision systems for mobile robots must cope with substantial variability in their environments, hard real time constraints, and a need for strong performance guarantees. Specific questions that often arise are: how to trade off robustness against liveness, how to integrate data across large spatial extents, and how to accommodate a highly variable environment.

The purpose of this workshop, to be offered in conjunction with CVPR '98, is to provide a venue for the comparison and discussion of approaches to the use of vision for mobile robot systems, either manually guided or autonomous. Accepted papers will appear in the proceedings of the workshop.



The full-day workshop will include presentations by invited speakers complemented by the presentation of reviewed papers, and will be concluded with a panel. Papers are solicited for, but not limited to, the following areas:

Architectures for vision-based mobile robotics  
Vision-based position estimation  
Sensor-based navigation  
Sensor fusion over large-scale space  
Visual environment modeling  
Sensor-based exploration  
Vision-based telerobotic systems  
Case studies of successful vision-based mobile systems

Proceedings will be produced and will be available on-site. Accepted papers will be invited to submit an extended manuscript for review for a special issue of Autonomous Robots to be based on the workshop.

#### PAPER SUBMISSION

Four copies of complete manuscript should be received by Jan. 30, 1998 at the following address:

Professor Gregory Dudek  
Centre for Intelligent Machines  
McGill University  
3480 University Street  
Montreal, Quebec, Canada H3A 2A7

Submissions must include:

- (a) A title page containing the names and addresses of the authors (including e-mail and telephone), an abstract of up to 200 words, and a list of relevant keywords,
- (b) The paper, maximum length 16 double-space pages (12 point text, 1 inch margin) including figures, references, etc.

For more information, please check  
<http://www.cim.mcgill.ca/~dudek/mobile/mobilevision.html>

#### WORKSHOP PROGRAMME COMMITTEE

Gregory Dudek, McGill University ([dudek@cim.mcgill.ca](mailto:dudek@cim.mcgill.ca))  
Michael Jenkin, York University ([jenkin@cs.yorku.ca](mailto:jenkin@cs.yorku.ca))  
Evangelos Milios, York University ([eem@cs.yorku.ca](mailto:eem@cs.yorku.ca))

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From: Steven Shafer <[stevensh@microsoft.com](mailto:stevensh@microsoft.com)>  
Subject: CFP: Wkshp. on Content-Based Access of Image & Video Libraries, Santa Barbara, CA, USA

IEEE Workshop on Content-Based Access of Image and Video Libraries  
in conjunction with CVPR '98

<http://www.ctr.columbia.edu/cvpr98/workshop.html>

June 21, 1998  
Santa Barbara, California

General Chairs Call for Papers: The objective of this workshop is to Chung-Sheng Li, promote information exchange and technical IBM T.J. Watson interaction among researchers and developers working Research Center on algorithms or systems for accessing visual content in large image/video libraries.

Avi Kak,  
Purdue Computer Vision and pattern recognition play an University important role in solving many critical problems in this area, in conjunction with other disciplines Technical (e.g., image processing, database, and information Program Chair retrieval). This workshop will focus on several Shih-Fu Chang, important technical challenges, including Columbia representation, analysis, indexing, retrieval, University classification, and summarization of image/video content.

Technical

Program Representation:  
Committee

Albert Del Bimbo \* Integrated models of various visual features (Italy) \* Image/video object representations  
Rud Bolle supporting content-based search  
(IBM) \* Description of spatio-temporal relationships  
Carla Brodley of image/video objects  
(Purdue U) \* High-level event representations supporting David Copper semantic queries  
(Brown U)  
Dave Forsyth  
(UC Berkeley) Analysis:  
Tom Huang  
(UIUC) \* Segmentation of image/video objects with Ramesh Jain salient features/content  
(UC San Diego) \* Adaptive grouping of features and objects  
S.Y. Kung \* Compressed-domain feature extraction

(Princeton U) \* Features linking across different levels  
C. C. Jay Kuo  
(USC) Indexing:  
B.S. Manjunath  
(UC Santa Barbara) \* Efficient indexing algorithms for high-dimensional feature space  
Sanjit Mitra \* Robust, scalable indexing algorithms for (UC Santa Barbara) spatio-temporal queries  
A. Desai Retrieval:  
Narasimhalu  
(Singapore) \* Efficient query interface for query manipulation and relevance feedback  
Wayne Niblack  
(IBM) \* Integrated search in federated visual information systems  
Soo-Chang Pei  
(Taiwan) \* User-friendly navigation through large visual archives  
Remi Ronfard  
(France) \* Query optimization considering multiple criteria (e.g. storage, speed, bandwidth)  
Ishwar Sethi  
(Wayne State U.)  
Linda Shapiro  
(Wash. U) Classification:  
Thomas Sikaro  
(Germany) \* Domain-specific or domain-independent image/video classification  
John R. Smith  
(IBM) \* Automated (or semi-automated) generation of image/video taxonomies  
Harold Stone  
(NEC Research, USA) \* Semantic decoding and model selection through learning  
Tanveer F. Syeda-Mahmood  
(Xerox) Summarization:  
Murat Tekalp \* Automated summarization of visual content from single or multiple sources  
(U. Rochester)  
Wayne Wolf \* Visualization of visual content at different (Princeton U) levels  
Stephen Wong  
(UC San Francisco) Evaluation:  
HongJiang Zhang  
(HP Labs) \* Metrics and benchmarking procedures for performance evaluation

Original papers are solicited in, but not limited to, the above technical areas.

Paper Submission: Four copies of the complete manuscript should be sent by January 30, 1998 to:

Professor Shih-Fu Chang  
Department of Electrical Engineering  
Columbia University  
New York, NY 10027  
Tel: (212) 854-6894  
Email:  
[sfchang@ctr.columbia.edu](mailto:sfchang@ctr.columbia.edu)

Each paper should include a title page containing the names and addresses of the authors (including e-mail addresses), an abstract of up to 200 words, and at least five subject keywords.

Each paper is limited to 10 double-spaced pages (or 5 single-spaced pages) including figures, references, etc.

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From: [bhanu@shivish.ucr.edu](mailto:bhanu@shivish.ucr.edu) (Bir Bhanu)  
Subject: CFP: Autonomous Robots Sp. Issue on Perception-Based Intelligent Robots

CALL FOR PAPERS  
Autonomous Robots

Special Issue on Perception-Based Intelligent Robots

Sensing, perception and autonomous decision making are key ingredients for intelligent automation where the machine is faced with unexpected challenges and makes useful decisions. Example applications are perception-based navigation on land, in air and under water, space exploration, robot assistants for frail or handicapped people, service robots to automate hazardous tasks, etc. For the success of these applications vision plays an extremely important role for obstacle/hazard detection and avoidance, landmark acquisition and identification, object recognition, situation assessment, etc. One of the challenges has been to develop robust and reliable vision algorithms that can perform effectively under real-world application constraints. The focus of the special issue is to address a variety of research issues that are involved in developing vision-based robots and how some of these problems are mitigated by using sensor fusion, auxiliary and contextual information, motion cues, adaptation, etc. Contributions that combine a theoretical approach with intensive experimental evaluation are ideal, however, theoretical/conceptual papers are also invited. Possible topics for papers submitted to the special issue include, but are not limited to:

- Sensor design, calibration, and stabilization

- Sensor fusion for intelligent robots, including INS/GPS, digital map
- Representation of visual information for robotic tasks
- Generation and utilization of 3-D environment models
- Sensor-based adaptive behavior and learning
- Real-time sensing, distributed processing, cognition and control
- Object recognition from a moving platform, model acquisition/update
- Obstacle detection and avoidance, landmark recognition

#### INSTRUCTIONS FOR MANUSCRIPTS

Authors are encouraged to submit five copies of manuscript to the Guest Editor at the address given below. Papers must NOT have been published previously or submitted for publication to other journals.

#### IMPORTANT DATES

Oct. 1997 Call for papers published  
 Feb. 1, 1998 Papers are due  
 June 1, 1998 Completion of first review  
 Oct. 1, 1998 Completion of final review  
 Nov. 1998 Final acceptance/Papers due for publication  
 1st Quarter 1999 Publication of the issue

#### GUEST EDITOR

Bir Bhanu  
 College of Engineering  
 University of California  
 Riverside, CA 92521, USA  
 e-mail: [bhanu@engr.ucr.edu](mailto:bhanu@engr.ucr.edu), FAX: 909-787-3188

Journal Home page

<http://www.wkap.nl/kapis/CGI-BIN/WORLD/journalhome.htm?0929-5593>

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 From: Lambert Schomaker / NICI <[schomaker@nici.kun.nl](mailto:schomaker@nici.kun.nl)>  
 Subject: Announcement: UNIPEN mailing list

This is to announce:

[open-unipen@unipen.nici.kun.nl](mailto:open-unipen@unipen.nici.kun.nl)

a mailing list for researchers who are interested in the UNIPEN data format but who are not a member of the (closed) UNIPEN consortium for benchmarking and databases of on-line handwriting. The main entrance for UNIPEN in general is <http://unipen.nici.kun.nl/> and the FAQ can be read at <http://unipen.nici.kun.nl/unipen-faq.html>.

Awaiting the release of the UNIPEN/NIST database for the public, the UNIPEN data format can already be used and processed by public domain software tools: <http://unipen.nici.kun.nl/unipen-appetizers.html>.

The open-unipen mailing list allows for the exchange of ideas, data and software. The existing directory <ftp://ftp.nici.kun.nl/pub/UNIPEN/forum/> with public UNIPEN data samples can be extended by uploads of data as well as software upon requests to the list organizer.

Subscription to the open-unipen mailing list:

Send an E-mail message to:  
[Majordomo@unipen.nici.kun.nl](mailto:Majordomo@unipen.nici.kun.nl)

Containing the line:  
 subscribe open-unipen <your email@adress>

We hope that this service will meet the interests of on-line handwriting recognition researchers who cannot get to the official UNIPEN data.

This unmoderated list is organized by Lambert Schomaker ([schomaker@nici.kun.nl](mailto:schomaker@nici.kun.nl)) at the Nijmegen Institute for Cognition and Information (NICI), Nijmegen, The Netherlands.

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 From: [gsdb@imagn.cib.na.cnr.it](mailto:gsdb@imagn.cib.na.cnr.it) (Gabriella Sanniti di Baja)  
 Subject: Announcement: KS Fu Prize Nominations, deadline extended to January 15

Dear IAPR Community,

the deadline for sending the nominations for the KS Fu Prize has been extended to January 15, 1988, date at which the nomination packets should reach Prof Herbert Freeman, Chair of the KS Fu Prize Committee.

You can send your request for a nomination packet to Prof Freeman by email ([freeman@caip.rutgers.edu](mailto:freeman@caip.rutgers.edu)), and he will send you the packet immediately by airmail. Information about the KS Fu Prize is also on the web at <http://www.ece.rutgers.edu/~freeman/ksprize.htm>

Up to now, Prof. Freeman has received only a few requests for the nomination forms. As this is the first step to actually make nominations, it might indicate a decreasing interest for the KS Fu Prize, which is the most prestigious prize for the Pattern Recognition Society. Thus, I kindly invite you to consider the possibility to make nominations for the KS Fu Prize and to encourage other people to do the same.

Best regards

Gabriella Sanniti di Baja  
IAPR Secretary

.....  
Dr Gabriella Sanniti di Baja  
Istituto di Cibernetica, CNR  
Via Toiano 6, 80072 Arco Felice (Naples) ITALY

Tel. + 39 81 8534 237  
Fax + 39 81 5267 654  
Email [gsdb@imagm.na.cnr.it](mailto:gsdb@imagm.na.cnr.it)

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From: [marsi@imagets10.univ.trieste.it](mailto:marsi@imagets10.univ.trieste.it) (Stefano Marsi)  
Subject: Announcement: European Course on Image Processing and Analysis, University of Trieste, Italy

Third European Course on  
"RECENT ADVANCES IN IMAGE PROCESSING AND ANALYSIS"

MARCH 2-6, 1998  
UNIVERSITY OF TRIESTE, ITALY

Organiser: ESPRIT LTR 20229 - NOBLESSE

The course will spread over five days and will include formal lectures complemented by 'hands-on' sessions and visits to research or industrial laboratories. Social events will also be arranged in conjunction with the course, including a welcome reception and the Course Dinner. All attendees will be given a comprehensive set of lecture notes.

#### WHO SHOULD ATTEND

This course will be of interest to engineers, software developers, system developers, and research scientists involved in research and development on image/video processing and analysis and on multimedia environments. Application areas may be as diverse as digital television, multimedia archives management, industrial imaging, surveillance, integration of audio and video information, human perception. A basic knowledge of standard image processing techniques would be an advantage.

#### COURSE OUTLINE

- Order statistics filters: theory and applications
- Mathematical morphology and its applications
- Polynomial-based operators
- Pattern recognition
- Advanced video image processing
- Multimedia applications

#### ORGANISATION OF THE COURSE

The course has been organised by the research group engaged in the ESPRIT LTR Project 20229 - NOBLESSE:

- \* Prof. H. Burkhardt - Albert-Ludwigs-Universitaet Freiburg, Germany
- \* Prof. M. Gabbouj - Tampere University of Technology, Finland
- \* Prof. M. Kunt - Federal Inst. of Technology, Lausanne, Switzerland
- \* Dr. S. Marshall - University of Strathclyde, UK
- \* Prof. I. Pitas - University of Thessaloniki, Greece
- \* Prof. G. Ramponi - University of Trieste, Italy
- \* Profs. J. Serra  
and F. Meyer - CMM, Ecole des Mines, Fontainebleau, France

#### FEES

Course fee: Lit. 1,000,000 (including 20% VAT)  
Reduced fee for students: Lit. 800,000 (including 20% VAT)

#### LOCAL ORGANISATION:

The Office  
via San Nicolò 14, I-34121 Trieste, Italy  
ph.: +39 (40) 368 343 - fax: +39 (40) 368 808  
email: [theoffice@theoffice.it](mailto:theoffice@theoffice.it)

Further information available on  
<http://ipl.univ.trieste.it/school>

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From: Adrian Pearce <[adrianp@cs.curtin.edu.au](mailto:adrianp@cs.curtin.edu.au)>  
Subject: Book Announcement: Machine Learning and Image Interpretation

Machine Learning and Image Interpretation

By Terry Caelli and Walter F. Bischof,  
School of Computing,  
Curtin University of Technology,  
Perth, Australia.  
(A volume in Advances in Computer Vision and Machine Intelligence)  
Plenum Press.

ISBN: 0-306-45761-X. 448 pp. 1997  
Domestic price: \$115.00 (US and Canada)  
Foreign price: \$138.00 (elsewhere)

SERIES

DESCRIPTION

In this groundbreaking new volume, computer researchers discuss the development of technologies and specific systems that can interpret data with respect to domain knowledge. Although the chapters each illuminate different aspects of image interpretation, all utilize a common approach -- one that asserts such interpretation must involve perceptual learning in terms of automated knowledge acquisition and application, as well as feedback and consistency checks between encoding, feature extraction, and the known knowledge structures in a given application domain. The text is profusely illustrated with numerous figures and tables to reinforce the concepts discussed.

CONTENTS

Image Interpretation.  
Fuzzy Conditional Rule Generation.  
Relational Evidence Theory and Schematic Interpretation.  
Cite -- Scene Understanding and Object Recognition.  
See++ : An Object Oriented Theory of Task Specific Vision.  
SOO-PIN. Invariance Signatures. ABC: Biologically Motivated Image Understanding. 184 Figures.  
21 Tables.  
Author Index.  
Subject Index.

For more details see <http://www.plenum.com/>

Adrian Pearce, [adrianp@cs.curtin.edu.au](mailto:adrianp@cs.curtin.edu.au), <http://www.cs.curtin.edu.au/~adrianp/>  
Telephone: +618 9266 3135 Fax: +618 9266 2819 Home: +618 9330 5290  
School of Computing, Curtin University,  
G.P.O. Box U 1987, Perth 6845, W.A., Australia.

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From: Steven Shafer <[stevensh@microsoft.com](mailto:stevensh@microsoft.com)>  
Subject: Call for Participation: ICCV '98 and related workshops, Bombay, India

[ ICCV'98 is being held at Bombay, India, on January 4-7. Several affiliated workshops are being held on January 2-3. I am only including the web sites from Steve Shafer's postings. You may visit the web pages for further information. -AKC]

International Conference on Computer Vision, Bombay, India, January 4-7 1998  
<http://www.umiacs.umd.edu/users/lsd/iccv/index.html> or  
<http://www.cse.iitb.ernet.in/~iccv98>

Content-based Access of Image and Video Databases , January 3, 1998  
<http://www.ctr.columbia.edu/~sfchang/cbiv98/workshop.html>

Visual Surveillance. January 2, 1998  
<http://www.cvg.cs.reading.ac.uk/VS98-files/VS98.html>

Model-based 3-D Image Analysis , January 3, 1998  
<http://www.inria.fr/epidaure/personnel/subsol/ICCV98/iccv.html>

Conceptual descriptions of images January 2, 1998  
<http://www.umiacs.umd.edu/users/lsd/iccv/cdi.html>

Computer Vision for Virtual Reality Based Human Communications, January 3, 1998  
<http://www.mic.atr.co.jp/events/cvvrhc/index.html>

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That's all for now.

Wish you a merry Christmas, happy holidays, and a happy and prosperous new year.

Your TC10 chairman,

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

TC10 WWW URL: <http://www.iapr-tc10.or.kr/>  
TC10 News submissions and subscription requests to: [atul@nynexst.com](mailto:atul@nynexst.com)