Newsletter 51, August 1997

TC10 News #51

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Dear TC10 members and friends,

GREC'97 is now less than two weeks away. ICDAR'97 is one week from
now. With these two events approaching, there are a lot of
announcements for this issue of the TC10 News. To keep this issue
brief, I have abbreviated most of the CFP's and announcements.

First, there are the GREC and TC10 related announcements. There is
information on GREC registration and the GREC contest. This is
followed by the regular CFP's and announcements. Among these, the
Pattern Analysis and Applications Journal and the SSPR'98 workshop
should be of particular interest to TC10 members.

Hope to see you at ICDAR'97 and GREC'97.

-Atul

Subject: Update - GREC'97

GREC'97 is less than two weeks away now. For the most up to date
information about the workshop, please visit the GREC'97 web page

http://www.loria.fr/~tombre/grec97.html

If you wish to attend the workshop but haven't registered yet, please
do so as soon as possible. You can register on-line through the
workshop web page. As we are coming closer to the objective (75
persons) we cannot guarantee that registration will be open till the
last day.

We forgot to include the fax number for registration etc. in the
preliminary programme. Although e-mail and online registration is
possible (and preferable), people wanting to correspond with us (the
GREC'97 organizers) through fax can use the following number:

GREC'97, INRIA Lorraine, +33 3 83 27 83 19

At this time, the registration fee for GREC'97 is 1,500 FRF. The
student registration fee is $1,200 FRF.

2 X-terminals with telnet access to any host on the Internet will be
available for the workshop participants during the whole
workshop. This should make it easy to connect to one's mailhost and
read mail, for instance.

There will also be Internet connection points for laptop PCs or
Macs with an Ethernet card, so that people can bring their laptop
and connect to the Internet or even print locally.

Karl Tombre and Atul Chhabra

Subject: Update - GREC'97 Contest

Here is an update on the Graphics Recognition Contest to be held at
GREC'97. For current information on the contest, please visit the
web page

http://www.iapr-tc10.or.kr/contest.htmThe web page has up to date versions of the following:

- Software for generating synthetic images (under controlled
conditions) from dxf or dwg (AutoCAD) drawings. The most recent

version includes rendering of all graphical entities using continuous or dashed lines.

- Sample images and ground truth files generated using the above software.

- Software for performance evaluation. This software is available for both Unix OS's (SunOS 4.1.1, Solaris 2.5.1, and Irix 6.2 and (5.3?)) and Windows95/NT.

- An article describing the evaluation methodology.

There are several potential participants. The final list of contest participants will be released at the workshop.

The following computers will be available for the contest participants.

One SGI with Irix 6.2
One Sparc Ultra with Solaris
Pentium PC's with Windows NT/4.0

Hope we have a good turnout at the contest.

Ihsin Phillips and Atul Chhabra

Subject: Meeting - ICDAR 2001-1999, TC10-TC11 common meeting

The common meeting of TC10 and TC11 will be held at Ulm on Tuesday August 19, probably from 18.00 to 19.00 hours.

The agenda for the meeting includes a presentation of ICDAR 1999 in Bangalore and the choice of the site for ICDAR 2001.

The location and the precise time for the meeting will be announced at Ulm.

Guy Lorette and Atul Chhabra

From: Abdel Belaid <Abdel.Belaid@loria.fr>
Subject: Mailing List - TC11 Mailing list

Dear friends and colleagues,

A new mailing list called tc11 has been created in order to give you every time is possible useful information about this research group activities.

As suggested by our tc11-chairman Guy Lorette, I invite you all to subscribe to this list.

TO SUBSCRIBE TO THE LIST:

Please send a mail to tc11-request@loria.fr with subject: subscribe or unsubscribe.

TO SEND MAIL TO THE LIST:

send a mail to tc11@loria.fr

With Best Regards,

Your list-moderator A. Belaid
--
Abdel Bela?
Group READ, CRIN-CNRS, B?iment LORIA
54506 Vandoeuvre-Les-Nancy France
Phone: (33) 03 83 59 20 82, Fax : (33) 03 83 41 30 79
abelaid@loria.fr, http://www.loria.fr/~abelaid/

From: Seth Goldman <goldman@cfar.umd.edu>
Subject CFP - New Documents Journal - IJDAR

The International Journal on Document Analysis and Recognition (IJDAR)

CALL FOR PAPERS

We are pleased to announce the creation of a new journal, The International Journal on Document Analysis and Recognition (IJDAR). The journal 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.

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:

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)

EMail: IJDAR@cfar.umd.edu
WWW: http://documents.cfar.umd.edu/IJDAR

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

Editors
Prof. Sargur N. Srihari Prof. Seong-Whan Lee
Dr. David Doermann Dr. Karl Tombre

Advisory Editor: Azriel Rosenfeld

[Information on manuscript preparation, the editorial board, etc., is avaiable at the WWW URL listed below. --AKC]

From: amin@cse.unsw.edu.au (Adnan Amin)
Subject: CFP - Pattern Analysis and Applications Journal

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

PATTERN ANALYSIS AND APPLICATIONS

Springer-Verlag Limited

The WWW page for the Journal is:

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

Pattern Analysis and Applications journal will be published by Springer-Verlag Limited starting in Spring 1998. The journal will publish high quality articles in several areas of pattern recognition including image analysis, computer vision, robotics, speech analysis, character recognition, fractal analysis, multimedia, knowledge engineering and uncertainty management. The pattern analysis topics

include neural networks, genetic algorithms, machine learning, statistical and structural techniques and fuzzy logic. The journal places special emphasis on papers of an applied nature or on topics that contribute significantly to the development of novel pattern analysis techniques.

The journal invites high quality paper for publication. The Call for Papers and instructions to contributors is available at its web site. The papers (4 copies and the original) should be directed to the Editor-in-Chief: Sameer Singh, School of Computing, University of Plymouth, Plymouth PL4 8AA, UK. The web site contains details including the Aims and Scope, Information for Authors, Editorial Board, Subscription, and Special Issues of the journal. In addition, a formal "Call for Papers" is also available from the web site.

Audience:

Researchers in computer science and engineering. Research and Development Personnel in industry. Researchers/ applications where pattern analysis is used, researchers in the area of novel pattern recognition and analysis techniques and their specific applications.

From: Michael Grimalia <champion@brainlink.com>
Subject: CFP - Special Issue on Image and Video Processing

CALL FOR PAPERS

SPECIAL ISSUE ON IMAGE AND VIDEO PROCESSING FOR EMERGING INTERACTIVE MULTIMEDIA SERVICES

SEPTEMBER 1998

The access to digital image and video information is becoming an integral part of many Multimedia applications today. Within this context the efficient and functional coding of images and video as well as the sophisticated pre- and postprocessing of the images are increasingly important. Examples are the segmentation of 2D or 3D images and video for content-based coding and representation in the context of the MPEG-4 or JPEG 2000 standards as well as the conversion between various scanning formats for display. The multi-functional coding of the visual information is a desirable feature to not only provide an efficient representation of the information itself - but also to enable additional Multimedia functionalities, such as bitstream scaleability, object-based access and representation, bitstream editing, and related. Further, as more and more digital visual information exists on various servers over the world, it becomes increasingly difficult to identify and access the information. There is a demand for powerful search strategies which can be used to identify images and video based on ?isual clues?in addition to pure textural descriptions. In this context the most recent MPEG standardization activity, MPEG-7, envisions the standardization of a "Multimedia Content Description Interface" which will address the description, identification, and access of audio-visual information. Last not least the design of sophisticated interfaces to allow the user to interact appropriately with the Multimedia content provides an increasing challenge.

The objective of the Special Issue is to provide an overview on recent technological trends, key enabling technologies and standards for emerging Multimedia image and video services and applications in the context, but not restricted to, the emerging ITU-T H.263/L, ISO JPEG 2000, ISO MPEG-4 and ISO MPEG-7 activities.

Areas of interest are targeted for both real-time and non real-time image and video applications and include, but are not limited to:

* Supervised and unsupervised image and video segmentation
* Identification and tracking of objects and regions in scenes
* Efficient coding of 2D and 3D image and video content
* Multi-functional coding of images and video
* 2D and 3D image and video pre- and post-processing
* Feature-based image/video query Multimedia image and video content manipulation
* Representation of 2D and 3D visual information in Multimedia applications
* Human factors in interactive Multimedia applications

Guest Editors:

Prof. King N. Ngan
Dep. Electrical & Electronic Engineering
University of Western Australia
Nedlands WA 6907, Australia
Tel: +61-8-9380-1245, Fax: +61-8-9380-1065
Email: king@ee.uwa.edu.au

Dr. Thomas Sikora
Image Processing Department
Heinrich-Hertz-Institute (HHI) Berlin GmbH
Einsteinufer 37, 10587 Berlin, Germany
Tel: +49-30-31002-622, Fax: +49-30-392-7200
Email: sikora@hhi.de

Prof. Ming-Ting Sun
Dept. of Electrical Engineering, Box 352500

University of Washington
Seattle, Washington 98195, U.S.A.
Tel: +1-206-616-8690, Fax: +1-206-543-3842
Email: sun@ee.washington.edu

All manuscripts should be submitted before 15 October 1997, to one of
the guest editors listed above. All manuscripts should conform to the
standard formats as indicated in the latest ?nformation for Authors
printed in the IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO
TECHNOLOGY.

From: Adnan Amin <amin@cse.unsw.edu.au>
Subject: CFP - SSPR'98 - Sydney, Australia

Call for papers and participation

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

The WWW page is http://www.cse.unsw.edu.au/~amin/sspr98.html

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 chairperson:

Professor Herbert Freeman,
Rutgers University, New Brunswick, New Jersey, USA

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

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:

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

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 poage 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: December 1, 1997
Notification of acceptance: March 1, 1998
Camera-ready paper due: May 1, 1998

If you intend to participate or would like further information, please send e-mail to amin@cse.unsw.edu.au

[This CFP was edited for brevity. The full version may be found at the SSPR'98 web site. --AKC]

From: Victor Ostromoukhov <victor@lspsg1.epfl.ch>
Subject: CFP - RIDT'98 Raster Imaging and Digital Typography, St. Malo, France

CALL FOR PAPERS
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RASTER IMAGING AND DIGITAL TYPOGRAPHY (RIDT'98)

RIDT'98 is the successor of the previous conferences RIDT'89, RIDT'91, and RIDT'94. The aim of RIDT'98 is to bring together scientists and designers/artists and to create the conditions for a fruitful exchange of views.

While the basic problems of character reproduction on printing devices have been solved, many issues remain open and are the subject of further research. Current research focuses on font models and on the recovery of the coherence implicit in the design of the characters of a font. Can common features within a given font be extracted and modified in a coherent manner? Legibility and readability, both for screen (especially for the Web) and printed fonts, remain important issues. Besides topics related to typography, RIDT'98 also welcomes contributions in the field of 2D imaging, i.e. colour image acquisition, display and reproduction issues as well as non-realistic 2D rendering of images.

The RIDT'98 Workshop will be held in connection with EP'98 (http://www.irisa.fr/ep98), in St-Malo, from March 30th to April 1st 1998. Details about the RIDT'98 Call for Papers can be found at http://diwww.epfl.ch/w3lsp/cfpapers.html.

Papers, tutorials and workshops are solicited on subjects related to :

- Models for the analysis & synthesis of typographic characters
- Synthesizing non-Latin character alphabets and
managing multi-lingual fonts
- Typography for displays and the World Wide Web
- Typography and human perception issues
- Advanced computer-aided design of fonts
- Font quality issues
- Simulation of handwriting
- Font and character recognition
- Characters for handicapped persons
- Colour image acquisition, display and reproduction issues
- Non-realistic 2D imaging & halftoning techniques

Deadlines are October 15th for the submission of papers, acceptance/rejection will be notified by November 15th and the final electronic version of the paper is due by December 15th. Paper submissions should be transferred as Poscript files (*.ps) or frameMaker files (*.mif) by anonymous ftp : "ftp disunms.epfl.ch", name: "anonymous", "cd incoming/lsp", "put filename", put "readme.filename". Put the first author's family name in the filename and give your full coordinates in the readme file. Hard copy paper submissions may be mailed in 4 exemplars to Prof. Roger D. Hersch, LSP-EPFL, CH-1015 Lausanne, Switerland.

Tutorial and workshop proposals (half-day or full-day) should also be made by October 15th, by submitting a short description to both the workshop chairman (hersch@di.epfl.ch, fax +4121 693 66 80) and the tutorial chairman (mduerst@ifi.unizh.ch, fax +411 363 00 35).

Workshop Chairman: Roger D. Hersch, EPFL, Switzerland
Workshop Vice-chairman Jakob Gonczarowski, Typographics Ltd, Jerusalem, Israel
Tutorial Chairman: Martin D?st, Univ. of Zurich, Switzerland
Local Organisation Chairman: Jacques Andr? INRIA, Rennes, France

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CALL FOR PAPERS
IASTED International Conference on
Computer Graphics and Imaging
June 1-4, 1998
Halifax, Canada

Sponsor

The International Association of Science and Technology for
Development - IASTED

Location

Halifax Nova Scotia, on the east coast of Canada, is emerging as one of
Canada's more popular meeting and convention destinations. The downtown
area rests within an attractive and inviting park-like atmosphere.
Travellers won't want to miss Canada's most visited historical site, the
Halifax Citadel, which has been integrated beautifully into the already
attractive downtown area. The warmth and friendliness of the people are
among the city's greatest assets, and with its strong sense of identity
and cultural uniqueness, your stay in Halifax will not soon be forgotten.

Purpose

The International Conference on Computer Graphics and Imaging aims to
become a major point of contact between research scientists, engineers
and practitioners throughout the world. Participants will share the
latest research, developments and ideas in the wide arena of disciplines
encompassed under the heading of Computer Graphics and Imaging. This is
an exciting and dynamic field involving many separate but interrelated
areas of study. CGIM'98 is the first conference to be sponsored by IASTED
in this area. The conference will include keynote addresses, contributed
papers and tutorials on a wide range of topics.

Scope

Rendering
Illumination models
Volume rendering
Rendering algorithms and systems
Modelling
CAD (Computer Aided Design)
Modelling of natural phenomena
3D object extraction
Surface reconstruction
Geometric algorithms
Computational geometry
Animation
Motion control and kinematics
Particle systems
Simulation
Collision detection
Character animation
Plausible motion simulation
Facial animation
Human figure animation
Image processing
Medical imaging
Image acquisition techniques
Image and pattern analysis
Image manipulation
Computer vision
Image compression
Image synthesis techniques
Visualization
Visual information systems
Scientific and mathematical visualization
Virtual Reality
Holographic imaging
Interface issues
Human-computer interaction
VRML
Visualization and direct manipulation of virtual objects
Applications

Submission of Abstracts

Initial paper selection will be based upon abstracts. An abstract should
present a clear and concise view of the motivation of the subject, give an
outline of the paper, and provide a list of references. The abstract
should not exceed 1000 words. The International Program Committee will
make the decision concerning acceptance of papers.

Three (3) copies of the abstracts should be received at the IASTED
Secretariat - CGIM'98, #80, 4500 - 16 Avenue NW, Calgary, Alberta, Canada,
T3B 0M6 by November 15, 1997. Authors should provide a maximum of five
keywords describing their work, and must include a statement confirming
that if their paper is accepted one of the authors will attend the

conference to present it. Please include the full name, affiliation, full address, telephone and fax numbers, and email address of the corresponding author. Notification will be mailed by January 15, 1998. Authors of accepted papers will be required to submit their camera-ready final papers and full registration by April, 2, 1998. Papers received after that date will not be included in the proceedings. The International Program Committee reserves the right to reject any final manuscript if its quality is not acceptable. If this should occur, the author(s) will be notified by April 15, 1998 and their registrations will be refunded.

Submission of Tutorials

Individuals wishing to submit a tutorial (3 hours) should submit a clear and concise proposal describing the tutorial, including the names and credentials of the presenters to the IASTED Secretariat by November 15, 1997. The tutorial proposal should indicate the background knowledge expected of the participants, the objectives, the time allocation for the major course topics, and a resume of the instructor(s).

Important Deadlines

Abstracts and Tutorial Proposals November 15, 1997
Acceptance Notification January 15, 1998
Camera-ready manuscripts and
Registration April 2, 1998

For more information, or to be placed on the mailing list, please contact:

IASTED Secretariat - CGIM'98
#80, 4500 - 16 Avenue NW
Calgary, Alberta
Canada T3B 0M6

Tel: 403-288-1195
Fax: 403-247-6851

Email: iasted@cadvision.com

CGIM'98 Web Site:
http://www.iasted.com/cgim98/halifax.html
IASTED Web Site: http://www.iasted.com

From: Jonathan G Campbell <jg.campbell@ulst.ac.uk>
Subject: CFP - IMVIP'97 Irish MV and IP Conf, Univ. of Ulster, Northern Ireland

IMVIP'97 - Irish Machine Vision and Image Processing Conference 1997
and Eighth Ireland Conference on Artificial Intelligence (AI-97)

10--13 September 1997
Magee College, University of Ulster, Northern Ireland
http://www.infm.ulst.ac.uk/research/imvip97/
http://www.infm.ulst.ac.uk/research/ai97/

--- IMVIP '97 Plenary Speakers ---

James Crowley, Institut National Polytechnique de Grenoble (INPG),
Grenoble.

Anil Jain, Department of Computer Science, Michigan State University.

Jean-Christophe Olivo, European Molecular Biology Laboratory,
Heidelberg.

--- AI-97 Plenary Speakers ---

John McCarthy, Department of Computer Science, Stanford.

Walther von Hahn, Department of Computer Science, University of Hamburg.

Naoyuki Okada, Kyushu Institute of Technology, Iizuka, Japan.

--- Registration ---

Early registration, payable before 15 August 1997: GBP 120
Late registration: GBP 150
Student registration: respectively GBP 75 and GBP 100 for early, late.

Reduction for AISB, BMVA and OESI/SPIE members: GBP 20 on either early
or late registration.

Two conferences for GBP 120!!! Substantial inexpensive social program.
Cheap accommodation at less than GBP20 per night.

List of accepted papers -- IMVIP '97 available from web site; AI-97
accepted papers available by 1 August.

For details, including registration form, local B&B & hotel details see:

http://www.infm.ulst.ac.uk/research/imvip97/
http://www.infm.ulst.ac.uk/research/ai97/

or email: imvip97@ulst.ac.uk
ai97@ulst.ac.uk

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Jonathan G Campbell Univ. Ulster Magee College Derry BT48 7JL N. Ireland
+44 1504 375367 JG.Campbell@ulst.ac.uk http://www.iscm.ulst.ac.uk/~jon/

From: "Anya Tascillo USAET(UTC -04:00)" <anya@e-mail.com>
Subject: CFP - IEEE Intelligence and Systems Joint Symposia, Washington, DC

CALL FOR

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.)

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

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 & 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.

Regards,
Anya L Tascillo, PhD, Engine & Processes Dept, POB 2053/MD 3622
Ford Scientific Research Laboratory, 20000 Rotunda, Receiving R
Dearborn, MI 48124 ph: (313) 845-7427 fx: (313) 337-5571

From: Maja Mataric <maja@cs.brandeis.edu>
Subject: CFP - Extended Deadline - Autonomous Robots Journal

NOTE: Due to popular demand and unwieldy schedules, we have moved
and *finalized* the submission deadline to Sep 1, 1997.

CALL FOR PAPERS

Autonomous Robots Journal
Special Issue on Learning in Autonomous Robots

http://www.cs.buffalo.edu/~hexmoor/autonomous-robots.html

Guest editors: Henry Hexmoor and Maja Mataric

Submission Deadline: September 1, 1997

Autonomous Robots is an international journal published by Kluwer Academic Publishers, Editor-in-Chief: George Bekey

Current applications of machine learning in robotics explore learning behaviors such as obstacle avoidance, navigation, gaze control, pick and place operations, manipulating everyday objects, walking, foraging, herding, and delivering objects. It is hoped that these are first steps toward robots that will learn to perform complex operations ranging from folding clothes, cleaning up toxic waste and oil spills, picking up after the children, de-mining, look after a summer house, imitating a human teacher, or overseeing a factory or a space mission.

As builders of autonomous embedded agents, researchers in robot learning deal with learning schemes in the context of physical embodiment. Strides are being made to design programs that change their initial encoding of know-how to include new concepts as well as improvements in the associations of sensing to acting. Driven by concerns about the quality and quantity of training data and real-time issues such as sparse and low-quality feedback from the environment, robot learning is undergoing a search for quantification and evaluation mechanisms, as well as for methods for scaling up the complexity of learning tasks.

This special issue of Autonomous Robots will focus on novel robot learning applications and quantification of learning in autonomous robots. We are soliciting papers describing finished work preferably involving real manipulator or mobile robots. We invite submissions from all areas in AI and Machine Learning, Mobile Robotics, Machine Vision, Dexterous Manipulation, and Artificial Life that address robot learning.

Submitted papers should be delivered by September 1, 1997. Potential authors intending to submit a manuscript can contact either guest editor for answer to any questions.

Manuscripts should be typed or laser-printed in English (with American spelling preferred) and double-spaced. Both paper and electronic submission are possible, as described below.

For paper submissions, send five (5) copies of submitted papers (hard-copy only) to:

Dr. Henry Hexmoor
Department of Computer Science
State University of New York at Buffalo
226 Bell Hall
Buffalo, NY 14260-2000
U.S.A.
PHONE: 716-645-3197
FAX: 716-645-3464

For electronic submissions, use Postscript format, ftp the file to ftp.cs.buffalo.edu, and send an email notification to hexmoor@cs.buffalo.edu

Detailed ftp instructions:

compress your-paper (both Unix compress and gzip commands are ok)
ftp ftp.cs.buffalo.edu (but check in case it has changed)
give anonymous as your login name
give your e-mail address as password
set transmission to binary (just type the command BINARY)
cd to users/hexmoor/
put your-paper

send an email notification to hexmoor@cs.buffalo.edu to notify us that you transferred the paper

Relevant Dates:
September 1, 1997 submission deadline
November 15, 1997 review deadline
December 1, 1997 acceptance/rejection notifications to the authors

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From: eusipco@di.uoa.gr
Subject: CFP - Eusipco 1998 European Signal Proc Conf, Island Of Rhodes, Greece

EUROPEAN ASSOCIATION FOR SIGNAL PROCESSING

E U S I P C O - 98

IX European Signal Processing Conference
September 8 - 11, 1998 Island of Rhodes, Greece

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

The 1998 European Signal Processing Conference (EUSIPCO - 98) is the 9th biennial conference promoted and organized by EURASIP, the European Association for Signal Processing in cooperation with the Computer Technology Institute and the University of Athens. Its aim is to cover all aspects of Signal Processing theory and

applications. Sessions will include tutorials in addition to
presentations on new research results. An extensive technical
exhibition will also be organized in parallel with an industrial
vendors session.

Papers describing original work are invited in any of the areas
listed below. Four page papers will be published in the Proceedings
of EUSIPCO - 98. Acceptance will be based on quality, relevance and
originality. Special sessions are also envisaged; persons interested
in organizing a special session shall contact the SPECIAL SEESIONS
Chairman by JUNE 30, 1997. Proposals for TUTORIALS, including the
topic and outline are invited by JUNE 30, 1997.

SUBMISSION OF PAPERS:

* Information details are available:

-- by anonymous ftp to: ftp.di.uoa.gr in /pub/eusipco

-- on the WWW server URL: http://www.di.uoa.gr/~eusipco

* Send 5 copies of both summary and paper cover sheet to:

-- EUSIPCO - 98,
Dept. of Informatics,
University of Athens,
Panepistimioupolis,
TYPA, Athens 15784,
Greece.

Tel.: +301 7211119, FAX: +301 7219561,
EMAIL: eusipco@di.uoa.gr

DEADLINES:

* Submission of proposal: October 31, 1997.
* Notification of acceptance: February 28, 1998.
* Submission of camera - ready paper: April 30, 1998.

* Special Sessions: June 30, 1997,
* Tutorials: June 30, 1997

AREAS OF INTEREST:

1. Digital Signal Processing
2. Statistical Signal and Array Processing
3. Speech processing
4. Audio and Electroacoustics
5. Image and Multidimensional Signal Processing
6. Knowledge Engineering and Signal Processing
7. Implementations
8. Applications

[Edited for brevity. --AKC]

From: Robert Laurini <laurini@ifhpserv.insa-lyon.fr>
Subject: Program - ACM-GIS'97 Geographic Information Systems, Las Vegas, NV

5th ACM WORKSHOP ON
GEOGRAPHIC INFORMATION SYSTEMS
LAS VEGAS, NEVADA, USA
November 13-14, 1997

PRELIMINARY PROGRAM
Scope of the conference: The scope of this conference will be to regroup
all people carrying out researches in novel systems based on spatial data
and knowledge. The emphasis will be essentially targeted to the development
of generic principles and systems in computing based on those applications.
For cross-fertilizations and synergies between several applications can
help to develop new computing knowledge. It is organized within ACM CIKM'97,
the Sixth ACM International Conference on Information and Knowledge
Management

Location: Monte Carlo Hotel, 3770 Las Vegas Boulevard South, Las Vegas,
Nevada 89109 USA; Phone: (702) 730-7777

Preliminary Program

November 13, 1997

9.00-9.30 Opening ceremony; Chair: Robert Laurini
9.30-10.30 Key note speaker 1
10.30-10.45 Break
10.45-12.15 Session 1: Query Processing 1; Chair:

- Relation-Based Similarity, Dimitris Papadias (Hong Kong), Vasilis Delis (Greece)
- Using B+- Trees in a Two Disk-Single Processor Architecture to Efficiently Process
Inclusion Spatial Queries, Mario Nascimento (Brazil), Margaret Dunham (USA)
- Dynamic Map Synthesis Utilizing Extended Thesauruses and Reuse of Query
Generation Process, Kenichi Horikawa Masatoshi Arikawa, Hiroki Takakura,
Yachiko Kambayashi (Japan)

12.15-2.00pm Lunch
2.00-3.30 Session 2: Terrain Modeling and Visualization; Chair: Silvia Gordillo
- VARIANT - Processing and Visualizing Terrains at Variable Resolution
Leila De Floriani, Paola Magillo, Enrico Puppo (Italy)
- A Triangle-Based Surface Model for 3D-GIS J. Mark Ware, Christopher B. Jones (UK)
- Progessive TINs: Algorithms and Applications Anil Maheshwari,
Pat Morin, Jorg-Rudiger Sack (Canada)

3.30-4.00 Break
4.00-5.30 Session 3: Spatial Modeling; Chair:
- Generating the Architecture of GIS Applications with Design Patterns
Silvia Gordillo, F. Balaguer, F. Das Neves (Argentina)
- A Spatial Data Mining Method by Delaunay Triangulation In-Soo Kang,
Taewan Kim, Ki-Joune Li (Korea)
- Provably Correct and Complete Transaction Rules for GIS Gerhard Gr?er,
Lutz Pl?er (Germany)

November 14, 1997

9.00-10.00 Key note speaker 2; Chair: Patrick Bergougnoux
10.00-10.30 Break
10.30-12.00 Session 3: Query Processing 2; Chair: Patrice Boursier
- Transaction Synchronization in Structures for Point Data,
Eleanna Kafeza, Thanasis Hadzilacos (Greece)
- Parallelizing the Refinement-Step of Spatial-Join, Sivakumar Ravada,
Shashi Shekhar (USA)
- Speeding up Bulk-Loading of Quadtrees, Gisli Hjaltason, Hanan Samet,
Yoram Sussmann (USA)

12.00-1.45pm Lunch
1.45-2.45 Session 4: Raster-based GIS; Chair :
- Towards Comprehensive Database Support for Geoscientific Raster Data,
N. Widmann, P. Baumann (Germany)
- Geographical Image Classification and Retrieval, G. Sheikoleslami,
A. Zhang, L. Bian (USA)

2.45-3.00 Break
3.00-4.45 Session 5: Data Integration and Applications; Chair : Ki Joune Li
- A Practical Solution to the Geospatial Data Barrier Problem,
Christian Larouche, Gilles Cl?ent, Denis Goin, Paul Morin (Canada)
- Distributed Land-Cover Change Simulation Using PVM and MPI, MW Berry,
KS Minser (USA)
- Map Integration Judith van Putten, Frank van Wijngaarden,
Peter van Oosterom, Harry Uitemark (The Netherlands)

4.30-4.45 Break
4.45-5.30 Panel: GIS and the Web, Ki Joune Li (Korea), Robert Laurini
(France), Niki Pissinou (USA)
5.30 Closing ceremony

Organization

General Chairs
Nikki Pissinou, The University of Southwestern Louisiana, USA
Kia Makki, University of Nevada, Las Vegas, USA
Patrick Bergougnoux, The University of Toulouse, France

Program Chairs

Robert Laurini, University of Lyon, France
William Campbell, NASA, Greenbelt, USA

If you have any questions contact appropriate person:
on registrations (Dr. Park: ekpark@cstp.umkc.edu); on technical
programs (Program Chair: Dr. Robert Laurini at robert.laurini@if.insa-lyon.fr);
on other conference and GIS97 related matters (General Chair:
Dr. Kia Makki at kia@cs.unlv.edu).

TUTORIALS:
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Half Day Tutorials (Monday, Nov. 10, 1997):
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T1. Models in Information Retrieval (Morning, Nov. 10)
Fredric C. Gey, Ph. D., University of California

T2. New Trends in Information Discovery on the Web (Morning, Nov. 10)
Chaitanya Baru, Ph. D. Richard Marciano, Ph. D. San Diego
Supercomputer Center

T3. Data Warehousing and OLAP for Decision Support: Foundations and
Techniques (Afternoon, Nov. 10) Laks V. S. Lakshmanan, Associate
Professor, Concordia University Raymond Ng, Professor,
Univ. British Columbia

T4. Software Agents For Information Retrieval (Afternoon, Nov. 10)
T. Finin, C. Nicholas and J. Mayfield, UMBC

One Day (Two Half Day) Tutorials (Monday, Nov. 10, 1997):
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T5. Multimedia Database Systems
V. S. Subrahmanian, Prof., University of Maryland

Half Day Tutorials (Thursday, Nov. 13, 1997):
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T6. Information Security (Morning, Nov 13)
F. Golshani, Prof. Arizona State University

One Day (Two Half Day) Tutorials (Thursday, Nov. 13, 1997):
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T7. OLAP and Statistical Databases (CANCELED !!!!!!!!!!!!!)
F. Olken, Lawrence Berkeley National Laboratory

Half Day Tutorials (Friday, Nov. 14, 1997):
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T8. Coordination Technology and Workflow Management (Morning, Nov. 14)
Frank von Martial, T-Mobil, Germany

T9. Object-oriented Enterprise Frameworks (Afternoon, Nov. 14)
Mohamed E. Fayad, University of Nevada

WORKSHOPS:
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W1: GIS'97 - Advances in Geographic Information Systems

W2: NPIVM'97 - New Paradigms in Information Visualization and Manipulation

** GIS'97 will be a two-day workshop (on Nov. 13 - 14, 1997).
NPIVM'97 will be one-day workshops (on Nov. 14, 1997).

Please visit our WWW site for up-to-date CIKM97 program information and
related activities: URL: http://www.arian.eas.asu.edu/cikm97/cikm97.html

[Edited for brevity. --AKC]

From: Josef Pauli <jpa@informatik.uni-kiel.de>
Subject: Call for Participation - CAIP'97, AFPAC'97, Germany

This is an ANNOUNCEMENT and a CALL FOR PARTICIPATION
concerning the conference CAIP'97 and the workshop AFPAC'97.

CAIP'97 is the seventh event of a biennial international conference
series devoted to all aspects of image analysis and processing,
computer vision, and pattern recognition.

The conference will take place at Christian-Albrechts-Universitaet
Kiel, Germany, from Wednesday, Sept. 10, until Friday, Sept.12, 1997.
The official language of the conference is English.
The program consists of 61 oral and 31 poster presentations
and one invited talk.
The presentations were carefully selected on the basis of a double
blind reviewing process.

Before CAIP'97 a two days workshop on Algebraic Frames for the
Perception--Action Cycle (AFPAC'97) will take place.
The workshop program consists of 25 oral presentations of several
invited speakers and high quality submissions.

We have updated the WWW pages now including the final programs, a map
of Kiel with the relevant places, and information concerning public
transportation. Registration forms can be obtained as well.

http://www.informatik.uni-kiel.de/~caip97/
http://www.informatik.uni-kiel.de/~caip97/afpac/

Best regards,
Josef Pauli, Eduardo Bayro-Corrochano

Further Information:
contact: for CAIP: Dr. J. Pauli,
for AFPAC: Dr. E. Bayro-Corrochano
e-mail: caip97@informatik.uni-kiel.de,
afpac@informatik.uni-kiel.de
phone: +49.431.560484,
+49.431.560477,
fax: +49.431.560481
Address: Christian-Albrechts-Universitaet
Institut fuer Informatik
Preusserstr. 1-9
24105 Kiel, Germany

From: kalou@di.uoa.gr (Kalouptsidis Nikos)
Subject: Book Announcement - Signal Processing Systems, Theory And Design

Dear Colleague,

I wish to inform you about my book titled
"SIGNAL PROCESSING SYSTEMS, THEORY AND DESIGN"
published by Wiley- Interscience.

The main objective of the book is to provide a solid
background on the theory and design of signal processing systems. It
emphasizes tool development as well as signal processing design and
shows the reader how to perform a variety of tasks. These include
signal compression and coding, modulation, equalization, encryption,

filtering for signal enhancement and noise removal, pattern
classification, error control coding, prediction, feedback control,
and identification to locate a plant or signal source operating in an
uncertain environment. The specific signal processing tasks selected
for presentation feature universal characteristics and generic
value. They form primary building blocks upon which more sophisticated
signal processing operations are developed.

No other book offers this wide range of tools and techniques
essential to the design of signal processing systems. It provides:

- Complete coverage of all major signal and systems representations.
- Detailed descriptions of the phases involved in the design of a
signal processing system.
- Applications, algorithms and MATLAB simulations.
- Examples of various types of signals and systems including analog discrete
digital multidimensional and stochastic.
- A balanced account of both theoretical and implementation issues.

[Edited for brevity. Please contact the author for further
information. --AKC]

N. KALOUPTSIDIS
Division of Communication and Signal Processing
Dpt. of Computer Science and Informatics,
University of Athens,
Panepistimioupolis TYPA Buildings,
Athens 15784, GREECE.

Tel: 301 7211119 , 301 7244096
Fax: 301 7228981.

From: majordomo admin <majordom@bigpine.csee.usf.edu>
Subject: Update - ICCV'98 Bombay, India

Attention ICCV paper submitters and potential attendees!

LIST OF ACCEPTED PAPERS:

The list of accepted papers for ICCV is now up on the web at:

http://renoir.umiacs.umd.edu/IccvResults/ResultsList.asp

You click through them using the ">" (forward) and "<"(backward)
buttons until you find the paper you are searching for. The papers
are sorted by their submission number, which was assigned when the
electronic submission form was entered. Many papers were submitted
without the authors filling out this web form. If you did not fill
out the form, we did. So, to find your paper you have to search
through the list.

There are (about) 40 oral presentations and 100 posters. Reviews to
the authors will go out in several weeks.

HOTEL BOOKING FORM:

The hotel booking form is now on the ICCV web page.

http://www.umiacs.umd.edu/users/lsd/iccv/index.html
OR
http://www.cse.iitb.ernet.in/~iccv98

Attendees are strongly encouraged to make their hotel reservations as
soon as possible. The rates, as well as the blocking of rooms, are
only good until the beginning of November. There are a limited number
of rooms currently blocked. When they are reserved the hotel(s) will
release more. Notice that if the rooms are not reserved until close
to the last minute, the hotels might not have more rooms to release to
our block.

All of these hotels are in the downtown area, just 5 to 15 minutes
from TIFR. There will be shuttle service provided in the morning and
evening between the hotels and the conference site, as well as between
the hotels and the workshops (which are being held at IIT Bombay, not
so close to the downtown area).

Inquiries about ICCV should be addressed to one of the contacts given
on the ICCV 98 web page.

AGENTS AND AIRFARES

THIS IS THE MOST IMPORTANT PART OF YOUR PLANNING. DECEMBER AND JANUARY ARE
THE PEAK MONTHS FOR TRAVEL TO/FROM INDIA. PLAN YOUR TRAVEL NOW. SEATS ARE
FILLING UP.

The conference website lists some travel agents within USA. The following
website contains information about travel agents in several countries obtained
through surveys: http://Gremlin.chrr.ohio-state.edu/Travel/

USA:
The fares depend on when you leave. Most fares do NOT require a minimum length
of stay in India anymore. It is easy to get your desired travel dates if you
do your planning before August 31. After that date, it begins to get harder to

find the exact dates you want.

Before Sometime in the Second Week of Dec and After Dec 24:
Most fares for Chicago-Bombay-Chicago (or Chicago-Delhi-Chicago) range from
$950 to $1350 depending on when you leave and on which airline.

Dec 14-Dec 24: This is high season; expect to pay $200-300 more.

Before Thanksgiving: Lowest fares.

CANADA:
The fares are comparable to those from USA.

EUROPE:
Fares are cheaper if you go through travel agents that do volume
business in travel to India.

REGISTRATION

Registration form will be made available on the web. You may send the
completed form through paper mail or email to the address indicated on
the form, or you may register via the web. In addition to breakfasts,
lunches, coffee breaks, transportation and reception, the registration
fee also includes a banquet and a performance by Mallika Sarabhai -
one of the top living dancers in India today
(http://www.Darpana.com/).

Mallika Sarabhai is co-director of the Darpana Academy of Performing
Arts, where she co-ordinates the training of hundred of students in
dance, theatre, puppetry and music, and directs the Darpana Dance
Company, the Janavak Folk and Tribal Dance Company, and Darpana for
Development. Her career has developed from being a young,
internationally acclaimed, classical dancer and film personality, to
being an activist and commentator on social issues. As dancer,
actress, choreographer, writer and instigator of community projects
she challenges audiences to sit up and think, to realign themselves to
questions of ecology, cultural atrophy, and the very place of the arts
in our society.

TOURS

A number of tours are available to sites near and far from
Bombay. Please check the conference website as well as the web site
for Bombay and neighboring places (http://www.mumbainet.com/).

CUSTOMS

The following websites are useful for customs related information:
http://konark.ncst.ernet.in/customs/, and
http://konark.ncst.ernet.in/customs/Guide.html
The daily forex rates can be found at
http://www.expressindia.com/fe/forex.html

Again, hope to see you all at Ulm or Nancy.

Your TC10 chairman,

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Atul K. Chhabra Phone: (914)644-2786
NYNEX Science & Technology Fax: (914)644-2561
500 Westchester Avenue Email: atul@nynexst.com
White Plains, NY 10604, USA

TC10 WWW URL: http://www.iapr-tc10.or.kr/
TC10 News submissions and subscription requests to: atul@nynexst.com