

# Newsletter 46, December 1996

TC10 news# 46

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Dear TC10 members and friends,

Hope you are having a joyous holiday season. Here is the December '96 issue of TC10 news. Please excuse me for not including any editorial remarks since I am in a hurry to leave for my vacation. I will be away for the next two weeks. Also, pardon me for this longish issue. I did not get the time to trim the fat from the announcements.

Wish you all a very happy, healthy, productive and prosperous new year!

> From: Luc Vincent <[lucv@adoc.xerox.com](mailto:lucv@adoc.xerox.com)>  
> Subject: Document Image Analysis Workshop: Call for Paper

CALL FOR PAPERS

IEEE DOCUMENT IMAGE ANALYSIS WORKSHOP

El San Juan Hotel, Puerto Rico,  
Friday, June 20, 1997

Workshop URL: <http://marathon.csee.usf.edu/documents.html>  
CVPR'97 URL: <http://marathon.csee.usf.edu/cvpr97.html>

The purpose of this one-day, single-track workshop, is to facilitate information exchange and critical discussion directed at advancing the frontiers of document image analysis.

Specific topics of interest include:

- \* Document image segmentation
- \* Layout analysis
- \* Map, graphics, and drawing interpretation
- \* Character recognition
- \* Hand print/writing recognition
- \* Document image indexing, storage, and retrieval
- \* Document image processing

Since the workshop is being held in conjunction with CVPR'97, papers dealing with techniques that have been used in more traditional computer vision problems are especially welcome, as they would help bridge the gap between the computer vision community and the document image analysis community. However, high quality contributions on any aspect of document image analysis will be carefully considered.

The workshop will be held on June 20, the day after CVPR'97. Hotel rates for CVPR'97 have been extended. Contributions submitted will be reviewed by the program committee. Submissions should be in the form of extended abstracts (about 2 pages). The extended abstracts of accepted papers will be compiled into a booklet that will be available at the workshop. Proceedings will be ready shortly after the workshop.

The first page of the extended abstract should include: (1) paper title, (2) authors, (3) contact author's name, address, phone number, fax number, and e-mail address (4) very short (three to four sentences) abstract. FIVE copies of the extended manuscript should be received no later than:

=====>>> APRIL 1, 1997 <<<<<=====

at the following address:

Luc Vincent  
Xerox, DDS  
3400 Hillview Avenue, Bldg. 3  
Palo Alto, CA 94304

USA

Complete schedule is as follows:

- \* Extended abstract due date: April 1, 1996
- \* Notification of acceptance: May 1, 1996
- \* Final version of extended abstract due date: June 1, 1996
- \* Final manuscript due at IEEE: June 15, 1996

#### GENERAL CHAIRS

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> From: [Rolf.Ingold@unifr.ch](mailto:Rolf.Ingold@unifr.ch)  
> Subject: CFP: EP98

EP98: Call for papers

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Saint Malo, France, 1-3 April 1998  
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EP98, the seventh International Conference on Electronic Publishing, Document Manipulation and Typography will be held on 1-3 April, 1998, at the Palais des Congre's in Saint Malo, France.

Saint Malo is approximately 65 kilometres North of Rennes, 350 km West of Paris and connected to International Airports through high speed trains and to Great Britain by ferry lines (see <http://www.irisa.fr/ep98> for more details).

#### AIMS AND SCOPE

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EP98 will be the seventh in a biennial series of international conferences organized to promote the exchange of novel ideas concerning computer production and manipulation of documents. The importance of electronic documents has increased significantly in recent years as organisations rethink the way they use and represent information. EP98 will reflect the changing nature of documents by treating electronic publishing as a broad topic covering many aspects of hypermedia, information visualisation, and business aspects of electronic document dissemination as well as document representation and design.

#### CONFERENCE TOPICS

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Topics include, but are not limited to, the following:

-- Dissemination and presentation of documents

World-Wide Web and other forms of electronic dissemination: techniques, models, and user needs  
Business aspects of electronic dissemination: copyright, economics, intellectual property rights, and security  
Design for electronic dissemination: style sheets and layout, human factors in design and typography  
Document display issues: digital typography, resolution, and use of colour  
Visual and auditory aspects of documents

-- Modelling and representation of documents

Electronic document engineering: models and tools  
Hyperdocuments: models and novel user interfaces  
Integration of document manipulation systems with other

software tools  
Standards: evaluation and implementation  
Active documents: documents as user agents

-- Document management

Hypermedia and multimedia: standards, production, editing,  
and visualization  
Documents, work and workflow management  
Document management in the enterprise: information/process  
integration and reengineering implications  
Large document collections: digital libraries, organisation  
and distribution  
Distributed and multi-user documents

-- Linguistics and retrieval

Linguistics and document processing  
Indexing and retrieval techniques  
Multi-lingual documents  
Linguistic structures

-- Document recognition and interpretation

Structural recognition of documents  
Filtering and image handling techniques

-- Documents and education

Electronic document dissemination and education  
Experiences in teaching Electronic Publishing  
The place of Electronic Publishing in Computer Science  
curricula

CONFERENCE HISTORY

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The early conferences in the EP series, EP86 (Nottingham, England) and EP88 (Nice, France), concentrated on the core aspects of electronic document production, from composition to printing. EP90 (Gaithersburg, USA) adopted a broader approach, covering hypertext and hypermedia, document recognition and analysis, and applications of data-base techniques to document handling.

EP92 (Lausanne, Switzerland) and EP94 (Darmstadt, Germany) widened the area again, confirming the trend for document processing to cover progressively more areas of computer science. The most recent conference in the series, EP96 (Palo Alto, USA), established multimedia, network publishing, information visualisation, and novel document interfaces as conference themes.

It is expected that EP98 will continue the trend to treat electronic publishing as a broad subject and to explore its relationship with computer science and other disciplines.

PAPER SUBMISSION

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Authors are invited to submit complete papers describing original research results. All papers will be refereed by the programme committee and judged on originality, clarity, and technical merit. Accepted papers will be published in the conference proceedings, which will be available at the conference.

Papers should be written clearly in English, begin with a summary of up to 200 words, and occupy at most 12 pages. The first page should contain the title of the paper and the full name, affiliation, and contact details (including email address) of each author. The second page should begin with the title of the paper and the summary, but should not include any identification of the author(s). This is to assist the anonymous refereeing process. Please note that the main body of the paper (the second page and any subsequent pages) is limited to a total of 11 pages.

To submit your paper, please email a PostScript version to the Chair of the Programme Committee at [H.Brown@ukc.ac.uk](mailto:H.Brown@ukc.ac.uk).

Acknowledgement of submission and notification of acceptance will be via email to the first named author. Instructions for the preparation of the final version of a paper will be sent on acceptance.

Enquiries about submitting papers should be addressed (preferably by email) to

Professor Heather Brown  
Computer Laboratory  
University of Cambridge  
New Museums Site  
Pembroke Street  
Cambridge CB2 3QG  
England

Email: [H.Brown@ukc.ac.uk](mailto:H.Brown@ukc.ac.uk)  
Tel: +44 (0)1223 334418  
Fax: +44 (0)1223 334678

#### IMPORTANT DATES

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July 15, 1997 Full papers received by the Programme Chair  
October 1, 1997 Notification of acceptance or rejection  
November 15, 1997 Final versions of accepted papers received  
by the Conference Secretariat  
April 1-3, 1998 EP98 Conference

#### ORGANISATION

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Conference Chair: Jacques Andre'  
INRIA/IRISA, Rennes, France

Program Committee Chair: Heather Brown  
University of Kent at Canterbury, UK

Tutorials Chair: Rolf Ingold  
University of Fribourg, Switzerland

Steering Committee Chair: Peter King  
University of Manitoba, Canada

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INRIA/IRISA, Rennes, France

Proceedings Editors: Jacques Andre'  
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Heather Brown  
University of Kent at Canterbury, UK

Web Pages: Philippe Louarn  
INRIA-Rennes, France

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Lausanne, Switzerland

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Lausanne, Switzerland  
Hans van Vliet Vrije Universiteit, Amsterdam, The Netherlands  
Annie Zaenen Rank Xerox Research Centre, Grenoble, France

RELATED CONFERENCES (provisional)

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It is expected that RIDT98 (Raster Imaging and Digital Typography 98) and PODP98 (Principles of Document Processing 98) will be held in Saint Malo during the same week as EP98. Please consult the EP98 home page for details.

SPONSORS

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INRIA, France  
University of Kent at Canterbury, UK

Further interested parties are cordially invited to contact Jacques Andre' at the Conference Secretariat.

GENERAL INFORMATION

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Please see the EP98 home page (<http://www.irisa.fr/ep98>).

ENQUIRIES

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General enquiries and the EP98 reply form should be sent to the Conference Secretariat at the address given below.

Enquiries concerning papers should be sent to the Programme Committee Chair.

Enquiries or suggestions concerning the tutorials should be sent to the Conference Secretariat or to the Tutorials Chair

Professor Rolf Ingold  
Institut d'informatique  
Universite de Fribourg  
Chemin du Musee 3  
CH-1700 Fribourg  
Switzerland

Email: [rolf.ingold@unifr.ch](mailto:rolf.ingold@unifr.ch)  
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EP98 REPLY FORM

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Please fill in the reply form below and email it to [ep98@irisa.fr](mailto:ep98@irisa.fr).

NAME:

FIRST NAME:

AFFILIATION:

ADDRESS:

E-MAIL:

TEL:

FAX:

TELEX:

1. I wish to attend the EP98 conference and receive further information.

2. I wish to submit a paper to EP98

PROVISIONAL TITLE:

3. I wish to give a tutorial

PROVISIONAL TITLE:

4. I wish to attend a tutorial

ON WHICH TOPICS?

FUTURE NEWS

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The latest news will be available on the EP98 Web page:

<http://www.irisa.fr/ep98>

If at any time you wish to be removed from the EP98 mailing list, please send a message to the Conference Secretariat.

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Institut d'informatique fax: +41 26 300 97 31  
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Chemin du Musee 3 e-mail: [rolf.ingold@unifr.ch](mailto:rolf.ingold@unifr.ch)  
CH-1700 Fribourg www: <http://www-iiuf.unifr.ch>

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> From: [sankur@busim.ee.boun.edu.tr](mailto:sankur@busim.ee.boun.edu.tr)  
> Subject: CFP: Special Issue on Image Processing

ELEKTRIK  
Turkish Journal of Electrical Engineering and Computer Sciences

CALL FOR PAPERS  
Special Issue on Image Processing

Sponsored by the Scientific and Technical Research Council of Turkey (TUBITAK) and Chamber of Electrical Engineers (EMO), ELEKTRIK is an international journal on all aspects of electrical engineering and computer sciences. In a series of special issues that have been scheduled to be published in 1997, an issue is devoted to IMAGE PROCESSING to appear in fall. Original research papers on recent advances in this area are sought.

SCOPE:  
Suggested topics include but are not limited to the following :

Image scanning, sampling, quantization and halftoning  
Image compression and coding  
Image enhancement, restoration  
Image analysis and segmentation  
Multiresolution processing  
Motion detection and estimation  
Image sequence processing  
Video signal processing  
Computed imaging: acoustic imaging, confocal microscopy etc.  
Color reproduction  
Image processing architectures and software  
Image quality; visualization

SUBMISSION OF PAPERS:  
Prospective authors should follow the regular guidelines of ELEKTRIK. They should submit the manuscripts to the guest editor of this issue:

GUEST EDITOR:  
Bulent Sankur  
Department of Electrical and Electronic Engineering  
Bogazici Universitesi  
Bebek, 80815, Istanbul  
Turkey  
e-mail: [sankur@boun.edu.tr](mailto:sankur@boun.edu.tr)  
fax: 90-212-287-2465

IMPORTANT DATES:  
Submission of manuscripts April 1, 1997  
Notification of acceptance July 1, 1997

For further information, in addition to the guest editor, you can contact Kemal Leblebicioglu, Editor Tolga Ciloglu, Assoc. Editor Department of Electrical Engineering., Department of Electrical Engineering., Middle East Technical University, Middle East Technical University, 06531, Ankara, Turkey 06531, Ankara, Turkey  
e-mail: [kleb@rorqual.cc.metu.edu.tr](mailto:kleb@rorqual.cc.metu.edu.tr) e-mail: [ciltolga@rorqual.cc.metu.edu.tr](mailto:ciltolga@rorqual.cc.metu.edu.tr)  
fax: 90-312-210 12 61 fax: 90-312-210 12 61

#### INSTRUCTIONS TO CONTRIBUTORS

##### Submission of Manuscript

1. Send 4 copies of your paper written in English to the below address. The paper shall be subjected to a full review procedure and a decision whether to accept the paper will be taken by the Editor based on the reviews. Typical review period is 3 months.
2. Enclose a separate sheet giving your preferred address for correspondence and return of proofs.
3. All manuscripts must be accompanied by the Copyright Release Form which can be found on a following page. This form must be completely filled out and signed by all authors before processing of the manuscript will begin.

4. After the manuscript has been accepted for publication, i.e., after referee-recommended revisions are complete, the author will not be permitted to make any new additions to the manuscript.

5. Attention: before publication the galley proof is always sent to the author for corrections. Thus, it is solely the author's responsibility for any typographical mistakes which occur in their article as it appears in the journal. Only those mistakes/ omissions which occur due to some negligence on our part during the final printing will be reprinted in a Corrections section of a later issue. However, this does not include those errors left unnoticed by the author on the galley proofs.

#### STYLE of the MANUSCRIPT:

1. The first page must contain the English title of the paper, author(s) names and affiliations/addresses in English, abstract in English (not more than 300 words), complete mailing address, telephone number, e-mail address if there is one, and acknowledgement of financial or other support.

2. Manuscripts should be type-written using a font style and size which is quite legible, double-spaced throughout with ample margins, and single sided on white A4 standard paper.

3. Provide an introduction that includes a statement of the purpose and the contribution of the paper comparing it to the existing results in the literature.

4. If appropriate, indicate advantages, limitations, and possible applications of your contribution in a conclusion section.

5. References should be numbered consecutively in square brackets [1] in the paper and listed in the order of appearance in a separate bibliography at the end of the manuscript.

6. The last page following the references should include a Turkish title, the author(s) name(s) with address(es) in Turkish (if possible), and a Turkish abstract.

#### INSTRUCTIONS for FIGURES and TABLES:

1. All illustrations not including tables (photographs and other films, drawings, graphs, etc.) must be labeled as "Figure".

2. The proper position of each table and figure must be clearly indicated in the paper.

3. All tables and figures must have a number (Table 1, Figure 1) and a caption or legend. If there is only one table or figure simply label it "Table" or "Figure".

4. All tables and figures must be numbered consecutively throughout the paper.

5. All captions and legends must also be double-space typed on a separate sheet and labeled according to which table or figure they belong.

6. Dimensions of tables and figures must not exceed 16x20 cm and should be no smaller than 8 cm in width.

7. Tables must be clearly typed, each on a separate sheet, and double-spaced. Dimensions including caption, title, column heads, and footnotes must not exceed 16x20 cm and should be no smaller than 8 cm in width.

8. Tables may be continued onto another sheet if necessary but dimensions still apply.

9. Figures must be originals, sharp and noise-free, and drawn clearly in India ink on white paper or printed on smooth tracing/drawing paper. Reduced photocopies are not acceptable. Photographs must be clear, black and white, printed on glossy paper and of good contrast.

10. Drafting or art service cannot be provided by ELEKTRIK.

#### COMPUTER DISK:

If you are able to initially prepare your manuscript in a LATEX file including the figures translated into the picture environment of LATEX or Encapsulated PostScript format (EPS), we advise that you do so. Then, only if and after your manuscript is accepted for publication, we will ask you to submit a revised disk copy of your manuscript which will enable us to more efficiently and accurately prepare proofs. (This is not a requirement but is highly encouraged.)

#### FINAL CHECKLIST FOR AUTHORS

Before you submit your work, please take the time to be certain that your paper (and other writings as applicable) is in the correct format and that you have included everything necessary by checking it against this checklist.

- Copyright Release form is enclosed, completed and signed by all authors.
- Four copies of paper submitted (one original, three copies)
- Entire paper is 5mm double-spaced (incl. abstract, tables, captions/legends, references)
- Margins are 3 cm each side Font size is 12pt. or 3mm tall Font style and type is quite legible Author(s) names are fully written (not

abbreviated)

- Abstract is given
- Original figures are enclosed
- Original figures are prepared correctly according to instructions
- Dimensions of figures are min.=8x20cm; max.=16x20cm
- Figures are referred to consecutively in the paper
- Dimensions of tables are min.=8x20cm; max.=16x20cm
- Tables are referred to consecutively in the paper
- Table and figure legends/captions typed on a separate sheet
- References are referred to consecutively in paper in brackets [ ]
- References are listed in the order of appearance

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---

> From: David Lewis <[lewis@research.att.com](mailto:lewis@research.att.com)>  
> Subject: Call For Papers: SIGIR '97

#### CALL FOR PAPERS

SIGIR '97

20th International ACM SIGIR Conference on  
Research and Development in Information Retrieval

DoubleTree Hotel, Philadelphia, PA, USA

July 27 -- July 31, 1997

In co-operation with:  
BCS-IRSG (UK), GI (Germany), IPSJ (Japan), (others pending)



## ABOUT THE CONFERENCE

SIGIR '97 is the twentieth conference in the premier series of research conferences on information retrieval. SIGIR is the major forum for the presentation of new research results, and for the demonstration of new systems and techniques, in information retrieval. The conference attracts a broad range of professionals including theoreticians, developers, publishers, researchers, educators, and designers of systems, interfaces, information bases, and related applications. In 1997, SIGIR is collocated with DL '97, the Second ACM International Conference on Digital Libraries, which will be held July 23-26, 1997 in Philadelphia. We anticipate substantial synergy between these two meetings.

## CALL FOR PAPERS

SIGIR '97 seeks original contributions (i.e. never before published) in the broad field of information storage and retrieval, covering the handling of all types of information, people's behavior in information systems, and theories, models and implementations of information retrieval systems.

We encourage discussions of experimental studies, tests of usability, explorations of information retrieval behavior, reports on the performance of large scale systems, and demonstrations of advanced approaches. We prefer theoretical contributions to have sufficient proof of utility to demonstrate their applicability to information retrieval problems. Similarly, reports on small scale experiments should include convincing arguments or simulations to show their likelihood of generalization.

## TOPICS

Topics include, but are not limited to:

--Information Retrieval Theory, e.g.: Statistical and Logical Retrieval Models, Data Fusion, Human-Centered Information Retrieval Systems.

--User Interaction and Behavior, e.g.: Models of Information Seeking, Interface Design and Experiment, Visualization.

--Multimedia Information Retrieval, e.g.: Audio, Video, and Image Retrieval, Links, Composite Documents.

--Experimentation, e.g.: Test Collections, Evaluation Measures.

--Natural Language Processing, e.g.: Multilingual Retrieval Systems, Summarization, Dialogue Management, Use of Linguistic Resources for Information Retrieval.

--Systems and Implementation Issues, e.g.: Integration with Database Systems, Networked Systems and the Internet, Compression, Efficient Query Evaluation.

--Applications, e.g.: Task-Embedded Information Retrieval, Electronic Publishing, Digital Libraries.

## INSTRUCTIONS FOR CONTRIBUTORS

Submissions to SIGIR '97 may be completed papers, or can be proposals for posters, panels, demonstrations, tutorials, or workshops. With the exception of papers and posters, submissions may be made via e-mail (plain ASCII text). All submissions should include complete contact information including mail address, telephone, fax, and e-mail.

## PAPERS

Papers (4 copies) should be submitted in English to the Program Co-Chair responsible for the geographic region of the first author, as indicated below. Papers should contain at most 5000 words. The first page must contain the title of the paper and an abstract of not more than 150 words, but no indication as to the author(s) or their affiliation(s). In addition, authors must provide a separate cover page with the title, the author name(s), and the author affiliation(s), plus complete contact information (mailing address, telephone, fax, and e-mail) for the author to whom correspondence should be sent. Please indicate if the paper is to be considered for the Best Student Paper Award. This Award requires that the first and primary author be a fulltime student at time of submission. There will also be a Best Non-Student Paper Award presented.

## TUTORIALS

SIGIR '97 will begin with a full day of tutorials, each of which should cover a single topic in detail. Proposals are solicited for tutorials of either a half day (3 hours plus breaks) or full day (6

hours plus breaks). Submissions should be made to the Tutorials Chair and should include a cover sheet and an extended abstract. The cover sheet should specify (1) the length of the tutorial; (2) the intended audience (introductory, intermediate, advanced); (3) complete contact information for the contact person and other presenters; and (4) brief biographies (max. 2 paragraphs) of the presenters. The extended abstract should be 3 to 5 pages, and should include an outline of the tutorial, along with descriptions of the course objectives and course materials.

## PANELS

Proposals for panel sessions should be sent to the Panels Chair by prospective moderators. Panels should address issues of interest to the general information retrieval community, and should be designed to stimulate lively debate between panelists and audience. Panel proposals (2-3 pages) must include: (1) complete contact information for the moderator; (2) the rationale for addressing this topic as a panel; (3) the names and affiliations of the panel members; and (4) a description of how the panel will be structured, with emphasis on how general participation will be encouraged. Abstracts of panel presentations will appear in the proceedings.

## DEMONSTRATIONS

Demonstrations provide an opportunity for first-hand experience with information retrieval systems, whether advanced operational systems or research prototypes. Proposals (up to 3 pages) should be submitted to the Demonstrations Chair. The proposal should indicate how the demonstration will illustrate new ideas, and should describe the technical specifications of the system. The hardware, software, and network requirements for the demonstration, including the electrical requirements of the equipment, should be indicated. A list of demonstrations will be published in the proceedings.

## POSTERS

SIGIR '97 poster presentations offer researchers an opportunity to present late-breaking results, significant work in progress, or research that is best communicated in an interactive or graphical format. Abstracts of posters will appear in the conference proceedings, and there will be a Best Poster Award. Three copies of an extended abstract (roughly 3-4 pages) should be submitted to the Posters Chair. The abstract should emphasize the research problem and the methods being used, and be headed only by the title of the poster. In addition, a separate cover page is required containing the title of the poster, along with the name and affiliation of the author(s), and complete contact information for the author to whom correspondence should be sent.

## WORKSHOPS

Proposals are solicited from individuals and groups for one-day workshops to be held July 31, 1997. Submissions of up to 3 pages should be made to the Conference Chair. They should include the theme and goal of the workshop, the planned activities, the maximum number of participants and the selection process, and a list of potential participants. Also include a CV for each organizer detailing relevant qualifications and experience. After the workshop, organizers are to provide an article summarizing the workshop for SIGIR Forum.

## IMPORTANT DATES

IMMEDIATELY: Subscribe to SIGIR '97 mailing list by writing to [sigir97@potomac.ncsl.nist.gov](mailto:sigir97@potomac.ncsl.nist.gov). Information on SIGIR '97 will periodically be sent to the mailing list as well as posted at <http://www.acm.org/sigir/conferences/sigir97/index.html>.

January 10, 1997: Submission of PAPERS to the relevant Program Co-Chair.

February 14, 1997: Submission of proposals for POSTERS, PANELS, DEMONSTRATIONS, TUTORIALS and WORKSHOPS to the relevant Chair.

March 11, 1997: Notification to ALL authors.

April 30, 1997: Final manuscripts for PAPERS, POSTERS and PANELS due in camera-ready and electronic forms.

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> From: "Nabeel A. Murshed" <[murshed@rla01.pucpr.br](mailto:murshed@rla01.pucpr.br)>  
> Subject: CFP: First Brazilian Symposium on Document Image Analysis

BSDIA '97  
First Brazilian Symposium on Document Image Analysis  
November 03-05, 1997, Curitiba - Brazil

#### Call for Papers

You are invited to participate in the First Brazilian Symposium on Document Image Analysis that will be held in Curitiba - Brazil on November 03 - 05, 1997. The symposium aims at promoting and motivating researches and developments in the fields of Handwriting and Graphics Recognition, Storage and Information Retrieval, Workflow and Document System Architectures; and providing a forum for researchers, students, developers and end-users, from academia and industry, to discuss and exchange topics related to those areas. The symposium is organized by the Lab. of Document Image Analysis and Neural Networks (LADIANN) of the Pontifical Catholic University of Paran=E1 (PUC-PR). The topics will include, but not limited to:

Handwriting Recognition and Verification=20  
- Cursive Script  
- Characters And Digits=20  
- Words=20  
- Signature=20  
Graphics and Symbol Recognition  
- Engineering Drawing  
- Maps

- Logo Types
- Handwritten Marks
- Vectorisation Algorithms
- 3D Models
- Document Processing
- Layout Analysis
- Segmentation and Labeling Of Text And Images
- Skew Detection=20
- Language Identification
- Document Structure Analysis =20
- and Modeling=20
- Image Processing and=20
- Pattern Recognition
- Thresholding
- Thinning
- Noise Removal
- Segmentation
- Restoration
- Feature Extraction
- Classification
- Application Systems
- Bankcheck Processing=20
- Library Automated Systems
- Business Forms Reading
- Postal Automation
- Page Reading Systems For Blind =20
- Persons
- Number Plate Recogni-tion
- Identification Systems
- Workflow=20
- OCR Systems
- Architecture
- Omni And Multi-Font
- Multi-Lingual
- Postprocessing
- Performance Evaluation
- Storage and Information Retrieval=20
- Video and Images=20
- Compression Algorithms
- Multimedia and Hypertext
- Text Retrieval
- Document Models
- Theoretical Aspects
- Document Defects Models
- Evolutionary Computation=20
- Fuzzy Logic
- Genetic Algorithms
- Hidden Markov Models
- Human Perception of Handwriting
- Knowledge-Based Approach
- Object Oriented Language
- Modeling Of Handwriting =20
- Multi Agents
- Neural Networks
- Stochastic Models

BSDIA97 Committee  
 Symposium Chair  
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 Organizer and Program Chair  
 Nabeel A. Murshed, Brazil

Program Committee  
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 Robert Sabourin, Canada  
 Sebastiano Impedovo, Italy

#### Procedures

Prospective authors are invited to submit papers related to the topics listed above, or to topics that are within the scope of the symposium, for oral or poster presentation. Both types of presentations will be included in the proceedings. Five copies of the paper must be submitted for review. The paper should be printed with a high quality laser printer, in A4 size white papers, written in English in two-column format, in Times New Roman or similar, 10 points, single line spacing with 2.5 cm margins on all sides. Section and subsection titles should be in bold type size 12 and 11, respectively. A length of eight pages is encouraged, and a limit of ten pages including figures, tables and

references will be enforced. Each copy of the paper must have two cover sheets. The first cover sheet must contain: title, author(s) name(s), affiliations, and complete address of each author. The address of the main author should be clearly indicated on the first cover sheet. For reviewing purposes, authors' names or addresses should not appear on any subsequent pages. The second cover sheet must contain the following information:

=B7 Title, brief abstract (150-200 words) single spaced and key words describing the main subject of the paper (3-5 words);

=B7 the subcategory (listed in the Call for Papers) into which the paper fits;

=B7 description and importance of the problem that the paper is addressing; and

=B7 the original contribution of the work and how does this contribution compare to those of other authors.

The contents of the paper must begin on the third page starting with the introduction, etc. The two cover sheets and the five copies of the paper should be sent to the program chair.

#### Paper Evaluation and Rewards

Each paper will be evaluated by three internationally renowned researchers in the area. The evaluation will focus on the importance, contribution and quality of the paper. The symposium will reward the best paper in each topic, the best paper of the symposium and the best student paper. The reward will be composed of a Certificate of Scientific Achievement and financial award.

#### Language of the Conference and Proceedings

The official language of the symposium is English. There will be Simultaneous Translation to Portuguese. The proceedings will be published by an international publisher and will be available during the symposium. Abstracts of all accepted papers will be maintained in a database and will be made available in the symposium's server for future access.

#### Important Dates

Paper submission:

To be received by March 10, 1997

Notification of acceptance:

To be mailed out on June 1, 1997

Camera-ready submission:

To be received by July 14, 1997

#### Further Information

For further information on BSDIA-9297,

please contact the program chair:

BSDIA-9297

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> From: [pigeon@tele.ucl.ac.be](mailto:pigeon@tele.ucl.ac.be)

> Subject: AVBPA'97

#### CALL FOR PARTICIPATION

First International Conference

on

AUDIO- AND VIDEO-BASED

BIOMETRIC PERSON AUTHENTICATION

Crans-Montana, Switzerland

12-14 March 1997

With the emergence of communication and computer science synergies, the interest for security issues is increasingly at the center of attention. An important element in this is automatic authentication of persons. AVBPA will bring together the speech and face recognition researchers in an attempt to contribute to robust solutions for this challenging problem. AVBPA is sponsored by the Swiss Association for Artificial Intelligence (SGAICO) and by the International Association for Pattern Recognition (IAPR).

#### AVBPA Programme:

The scientific programme will include the presentation of four invited talks and fifty contributed papers. Main technical areas are Features and Measurements, Decision Strategies for Audio & Video based Data, and System Architecture and Hardware. The invited talks will be given by Rama Chellappa (University of Maryland, USA), Sadaoki Furui (NTT, Japan), John Mason (University of Wales Swansea, UK), and Tomaso Poggio (MIT, USA). Two sessions are planned each day, one in the morning (9.00-12.15) and the other in the late afternoon (16.30-19.45). The proceedings volume will be published by Springer in the Lecture Notes in Computer Science series in time for distribution at the conference. Extended versions of selected contributions will be published in a special issue of Pattern Recognition Letters.

The afternoon breaks are scheduled to give the participants the opportunity to benefit from the beautiful mountains surrounding Crans-Montana, which is a modern mountain town allowing for outdoor activities. Experience from the medical conferences arranged in the same way showed that the afternoon breaks are beneficial not only to the health but also to the conference (come and test it!). The period of the conference is shortly after the peak holiday season but yet the period enjoys its best snow conditions on the slopes for those who want to ski.

WWW home page:

Conference registration form, hotel accommodation form and other relevant information can be found at

<http://www.tele.ucl.ac.be/IMAGES/AVBPA/>

Important Dates:

Advance Conference Registration: January 20, 1997

Hotel Reservation: January 20, 1997

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> From: mbennamo@hertz <m.bennamoun@qut.edu.au>  
> Subject: CFP: Focus Symposium on Image Processing and Related Fields

#### CALL FOR PAPERS

Focus Symposium on

"Image Processing and related Fields."

To be held within the SCI'97

WORLD MULTICONFERENCE ON SYSTEMICS,  
CYBERNETICS AND INFORMATICS

Caracas, Venezuela

July 7-11, 1997

#### PURPOSE OF THE SYMPOSIUM

The purpose of this symposium is to gather researchers in the area of Image Processing and related fields, such as Computer Vision, Robotics, Multimedia, Pattern Recognition, and others.

Image Processing includes all the various operations that can be applied to image data. Two principal applications are the prime movers of the interest in Image Processing methods: improvement of pictorial information for human interpretation, and processing of scene data for autonomous machine perception. The applications of this area are numerous. There are applications in the medical field (medical imaging), in remote sensing, and in the military such as the development of Automatic Target Recognition (ATR) systems.

The recent advances in this area resulted from the application of new mathematical theories, such as wavelets, or using models consonant with current views regarding neurophysiology and psychophysics of human perception.

The goal of this symposium is to present the recent advances in the area of Image Processing and its applications, such as phase-based motion estimation, image compression using Wavelet Transforms, etc. and to gather speakers from different disciplines, namely computer science, mathematics, physics, and psychology.

#### TOPICS

Among the topics which will be covered (this list is not restrictive):

Image Compression Using Wavelet Transforms.  
Vision Systems for Automatic Object Recognition.  
Recent Advances in Edge Detection.  
Phase-based methods for Motion Estimation  
Applications of ANNs to Image Processing.  
Texture Analysis and Applications.  
Scene Analysis.  
Image Segmentation.  
Character Recognition.  
Stereo Vision.  
Active Vision.  
Artificial Neural Networks applied to Image Processing.  
Sensing of Unknown Environments  
Vision-based Vehicle Navigation  
Vision-based Guidance of Unmanned Vehicles

#### SCHEDULE

A) Please submit your three (3) pages abstract by 4 February 1997 to:

Dr. Mohammed Bennamoun,  
Signal Processing Research Centre,  
School of Electrical & Electronic Systems Engineering,  
Queensland University of Technology,  
GPO Box 2434, Brisbane, QLD 4001,  
Australia

Ph.: Int'l: 61-7-3864-1204  
Fax: Int'l: 61-7-3864-1516  
Email: [m.bennamoun@qut.edu.au](mailto:m.bennamoun@qut.edu.au)

B) Acceptance and Notification: 15 March 1997.

C) Submission of Camera Ready Paper: 15 May 1997

#### ACADEMIC AND SCIENTIFIC SPONSORS

- \* World Organization of Systemics and Cybernetics (WOSC) (France)
- \* IFSR: International Federation for Systems Research (Austria/USA)
- \* International Systems Institute (USA)
- \* CUST, Engineer Science Institute of the Blaise Pascal University (France)
- \* The International Institute for Advanced Studies in Systems Research and Cybernetics (Canada)
- \* Society Applied Systems Research (Canada)
- \* International Institute of Informatics and Systemics (USA)
- \* IEEE (Venezuela Chapter)
- \* Simon Bolivar University (Venezuela)
- \* Universidad Central de Venezuela

For further Information about the SCT976, contact:  
Prof. Nagib Callaos (Chair)

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> Subject: International Workshop on Synthetic-Natural Hybrid Coding and 3D Imaging.

#### CALL FOR PAPERS

INTERNATIONAL WORKSHOP  
ON SYNTHETIC-NATURAL  
HYBRID CODING AND  
THREE DIMENSIONAL IMAGING  
(IWSNHC3D'97)

September 5-9 1997  
Rhodes, Greece

- \* The International Workshop on Synthetic-Natural Hybrid Coding and Three-Dimensional (3D) Imaging is organized by the European Community research project ACTS II VIDAS, ACTS project 057.
- \* It will be held in the picturesque Aegean island of Rhodes in Greece, at the most delightful time of the year and immediately preceding the Picture Coding Symposium (PCS) in Munich.
- \* The workshop will consist of sessions with both invited and contributed papers.
- \* The workshop proceedings will be published and distributed to the workshop participants.
- \* Due to workshop facility constraints, attendance will be limited with priority given to those who submit and present a paper.

- \* Topics of interest include, but are not limited to:
  - New Technologies in SNHC
  - MSDL-VIDEO VM and SNHC integration
  - Image Analysis and Modeling
  - 3D Acquisition / Range detection
  - 3D Coding and Multiviewing systems
  - Representation / animation of body and face models
  - Coding of Multiple Concurrent Data Streams (as in audio/video, stereo e.t.c.)
  - Content-based Coding
  - Audio and Video data Synchronizatio
  - 3D Graphics and Virtual Environments
  - VRML

\* Chairmen:



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- Fabio Lavagetto, University of Genova, Genova, Italy

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- Manfred Ziegler, Siemens AG, Germany

\* Prospective authors are invited to submit 3 copies of an extended summary of no more than 3 pages to:

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P.O. Box 460 Fax: +30.31.996342  
54006 Thessaloniki, Greece E-mail: [strintzi@eng.auth.gr](mailto:strintzi@eng.auth.gr)

\* Submission by e-mail (postscript file) is acceptable.

\* The top of the first page of the summary should include authors' names, addresses, affiliations, telephone and fax numbers and e-mail addresses.

\* Authors' schedule:

- March 15, 1997 Submission of extended summaries  
- April 30, 1997 Notification of acceptance  
- May 30, 1997 Receipt of camera-ready paper

\* Arrangements:

- Haris Gioumoussia (Ms), Aristotle University, Thessaloniki, Greece  
Tel: +30.31.996349, Fax: +30.31.996398, E-mail: [hgio@dion.ee.auth.gr](mailto:hgio@dion.ee.auth.gr)

\* Further information (updated regularly):

- WWW server [<http://uranus.ee.auth.gr/IWSNHC3D197/>]

-----  
> From: [joan@cc.gatech.edu](mailto:joan@cc.gatech.edu) (Joan Morton)  
> Subject: Workshop on Collaborative Design

CALL FOR WORKSHOP PARTICIPATION  
May 12 - 13, 1997  
(Immediately preceding the ACM Solid Modeling Symposium)

Abstracts + registration now, submission by January 21, 1997.  
URL: <http://www.cc.gatech.edu/gvu/TeamCAD>

TeamCAD  
First Gvu Workshop on COLLABORATIVE DESIGN

Hosted by the Gvu Center at Georgia Tech (<http://www.cc.gatech.edu/gvu>).

OBJECTIVES OF THE WORKSHOP

By bringing together researchers, users, system vendors, and funding agencies involved with CAD/CAM, PDM, and collaborative design, define the state of the art in collaborative CAD, identify research issues and avenues, explore collaboration between the different research and development teams, and justify a research charter on computer assisted collaborative design of mechanical, architectural, and construction models.

SCOPE OF THE WORKSHOP

The development of computer tools for collaborative design should start with a clear understanding of the nature of the design, review, and communication activities encountered in traditional environments, where teams work together in the same room with clay models, drawings, and CAD systems. Therefore we solicit contributions focused on establishing or validating precise task and performance models of these traditional environments. These will provide guidelines for future research and yardsticks for validating and justifying the results. Computerized design collaboration tools should strive to provide a similar, or even more effective, design environment to teams distributed in different locations, possibly in different time zones, probably involving people with no CAD or graphics expertise, connected via private high-bandwidth networks or plain phone lines. Progress toward productivity will involve advances in a variety of disciplines. We solicit contributions focused on collaborative CAD from such areas as: shape manipulation, interactive graphics, user-interfaces and virtual reality environments, 3D modeling and compression, shared databases and versioning, interface standards, decision support and documentation, multimedia communication and mark-up tools, and product data management. Finally, we must ensure that these research results will impact our industries. Therefore, we encourage contributions describing the role and importance of collaborative design in the overall product cycle and the interdependencies between the design activity and other business processes.

SUBMISSION

Submissions for the following categories are encouraged:

- ?Previously unpublished full research or practice papers (up to 8 pages)
- ?Visionary surveys (up to 12 pages)
- ?Extended abstracts of ongoing work (4 pages)
- ?Description of relevant project or centers (2 pages)
- ?Visionary or provocative statements (1 page)

The research/practice papers and the surveys will be fully refereed on a competitive basis. The other submissions will be reviewed by the program committee. All accepted papers and the authors' short biographies (up to 600 words) will be published in the proceedings. A subset of the original material will be considered for inclusion in a journal issue on Collaborative CAD. All initial submissions should be sent both electronically (if possible) and via regular mail to Jarek Rossignac.

#### REGISTRATION

Please register now by contacting Joan Morton at [joan@gvu.gatech.edu](mailto:joan@gvu.gatech.edu), 404/894-4672 or by using our home page. Reserve your room at the Renaissance (404/881-6000) and mention the Solid Modeling Symposium (<http://www.nist.gov/conference/sm97.html>), which immediately follows TeamCAD to get the conference rate.

#### DEADLINES:

Abstract, registration: Now!  
Manuscripts January 21, 1997  
Authors notification February 28, 1997  
Camera ready copies April 6, 1997

Conference Chair: Jarek Rossignac  
Georgia Tech, GVU/College of Computing  
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Support: Tonya Dunson  
Technical: Randy Carpenter  
Communications: Elaine Swobe

> From: [owner-cvpr\\_list@bigpine.csee.usf.edu](mailto:owner-cvpr_list@bigpine.csee.usf.edu)  
> Subject: Call for papers ICCV 98

ICCV '98

-----  
CALL for PAPERS  
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SIXTH INTERNATIONAL CONFERENCE ON COMPUTER VISION

.....  
January 3-7, 1998, BOMBAY, INDIA.

GENERAL CO-CHAIRS :

N. Ahuja U. B. Desai  
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[ahuja@vision.ai.uiuc.edu](mailto:ahuja@vision.ai.uiuc.edu) [ubdesai@ee.iitb.ernet.in](mailto:ubdesai@ee.iitb.ernet.in)

PROGRAM CO-CHAIRS :

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[lsd@umiacs.umd.edu](mailto:lsd@umiacs.umd.edu) [yachida@ce.osaka-u.ac.jp](mailto:yachida@ce.osaka-u.ac.jp)

R. Narasimhan A.Zisserman  
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[m@saathi.ncst.ernet.in](mailto:m@saathi.ncst.ernet.in) [az@robots.ox.ac.uk](mailto:az@robots.ox.ac.uk)

THE PROGRAM will consist of a single track of highest quality previously unpublished contributed papers, delivered either orally or as a poster. Contributions are sought on new research on any aspect of computer vision, including but not restricted to the following:

Physics based vision Integration of modules and cues  
Active and real-time vision CAD-based vision  
Motion and Stereo Invariants, geometry  
Shape recovery Object representation and recognition.  
Vision-guided robotics Medical computer vision  
Learning in computer vision Segmentation, grouping  
Low and high level processing Connectionist system for vision

PAPER SUBMISSION:

Four copies of complete manuscripts should be received no later than March 24, 1997 at the address listed below.

Larry Davis E-mail: [lsd@umiacs.umd.edu](mailto:lsd@umiacs.umd.edu)  
Department of Computer Science Fax: (301)-314-9115  
University of Maryland Phone: (301)-405-4526  
College Park, MD 20742 (301)-405-6722  
U.S.A

By submitting a paper to ICCV, the author(s) warrant that it (and any related paper with essentially the same technical content) has not been and will not be submitted to any other conference during the ICCV review period.

The manuscript should include the following (in this order):

(1) Title page -- containing the names and addresses of the authors (including e-mail), an abstract of up to 200 words, and one or more categories as listed above or other keywords that can be used to match submissions to reviewers.

(2) Second Title page -- with just the title and abstract (authors and institution not identified).

(3) Summary page -- attach answers to the following questions (please answer each separately):

(3.1) What is the original contribution of this work?  
(3.2) Why should this contribution be considered important?  
(3.3) What is the most closely related work by others and how does this work differ?  
(3.4) How can other researchers make use of the results of this work?

(4) Paper -- no more than 30 pages (double-spaced, 12 point font) including text, figures, references.

As has been customary with ICCV, all reviewing will be double blind.

IMPORTANT DATES :

Last date of submission of papers : March 24, 1997  
Notification of acceptance : July, 1997  
Camera-ready manuscripts due : September, 1997

Pre-Conference workshop will be held on Jan 3.

VENUE:

The venue of the conference is the Homi Bhabha Auditorium at the TIFR campus in Colaba. This is very close to the heart of the city of Bombay and is right next to the Arabian Sea. Bombay is directly connected to major cities in the world and also to other places in India. The delegates can enjoy the traditional Indian hospitality and may visit a number of places of tourist attraction in India, including the world famous cave paintings and sculptures of Ajanta and Ellora. The city of Mumbai, as Bombay is currently known, is ready to welcome the ICCV delegates.

IN CO-OPERATION WITH :

IIT Bombay, IEEE Computer Society, IEEE Bombay Section, University of Illinois and University of Maryland Institute for Advanced Computer Studies.

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| HOME PAGES FOR ICCV '98: |  
| <http://www.cse.iitb.ernet.in/~iccv98> |  
| <http://www.umiacs.umd.edu/users/lsd/iccv/index.html> |  
| |  
| FOR FURTHER INFORMATION CONTACT ANYONE OF THE |  
| CHAIRS OR |  
| [iccv98@cse.iitb.ernet.in](mailto:iccv98@cse.iitb.ernet.in) |  
-----

Past ICCVs were held at England (London, 1987), USA (Tampa, 1988), Japan (Osaka, 1990), Germany (Berlin, 1993) and USA (Cambridge, 1995).

Note: Please feel free to mail this announcement to others who you know would be interested in ICCV '98.

-----  
> From: [sgutta@osf1.gmu.edu](mailto:sgutta@osf1.gmu.edu) (SRINIVAS V. GUTTA)  
> Subject: NATO ASI Study on Face Recognition: From Theory to Applications

Face Recognition: From Theory to Applications

NATO  
Advanced Study Institute (ASI) Programme  
Face Recognition

June 23 - July 4, 1997  
Stirling, Scotland, UK

PURPOSE of the NATO INSTITUTES

The Advanced Study Institutes are primarily high level teaching activities in which carefully defined subjects are presented in systematically and coherently structured programs for professionals in the field, at graduate and post-doctoral level. Considerable benefit is derived from the fact that the ASI is a small meeting with lectures given by a selected team of international experts.

PROGRAM OBJECTIVES

Face Recognition (FR), a complex and difficult problem, is important for surveillance and security, telecommunications and digital libraries, and medicine. FR's solution requires synergetic efforts from fields such as signal and image processing, pattern recognition and neural networks, psychophysics of human perception, and system engineering. The ASI will bring together leading researchers from academia, government, and industry to present an all encompassing view on FR, and identify trends for future developments and the means for implementing FR systems.

ASI DIRECTORS

H. Wechsler (George Mason Univ., USA)  
P. J. Phillips (Army Research Lab., USA)  
F. Fogelman Soulie (Sligos, France)  
T. S. Huang (Univ. of Illinois, USA)

ORGANIZING COMMITTEE

H. Wechsler (George Mason Univ., USA)  
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F. Fogelman Soulie (Sligos, France)  
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T. Poggio (MIT, USA)  
A. Ralescu (Univ. of Cincinnati, USA)  
C. Taylor (Univ. of Manchester, UK)  
T. Vetter (Max-Planck-Institut, Tübingen, Germany)  
H. Wechsler (George Mason Univ., USA)

#### APPLICATION DEADLINE & COST

Prospective participants are required to submit an applications before February 1, 1997. Successful applicants will be notified of acceptance by March 1, 1997. There is a \$1,000 conference fee for accepted participants from industry and government. Package room and board arrangements for the students have been made with the University of Stirling, UK. Tentatively, the accommodation costs for the duration of the ASI are \$1,100. Accommodation packages for participants from industry are available upon request. Limited funds are available for selected participants to assist them with partial travel and accommodation costs. Request for support must indicate amount and be justified. The ASI will consider paper submission from the students for oral or poster presentation and will make a BEST PAPER award. Further questions can be addressed at [faces97@cs.gmu.edu](mailto:faces97@cs.gmu.edu)

#### ASI LOCATION

The ASI will be held at Stirling, UK. Gateway to the Highlands and once Scotland's former ancient capital, Stirling offers a unique combination of history, heritage, cultural activities and recreational pursuits. Stirling's distinguished Old Town and impressive cliff-top castle are nearby. The Trossachs, Loch Lomond and, of course, the Highlands, are all within easy reach. Diverse, but equally pleasurable experiences, await in the nearby cosmopolitan cities of Edinburgh (33miles) and Glasgow (44 miles).

For additional information and for filling the application, Please access out Home Page: <http://chagall.gmu.edu/faces97/natoasi/>

> From: Michael Hahn <[m.hahn@qut.edu.au](mailto:m.hahn@qut.edu.au)>  
> Subject: CFP: ISPRS IWG 'Integration of Image Analysis and GIS'

INTERNATIONAL SOCIETY FOR PHOTOGRAMMETRY AND REMOTE SENSING  
COMM. IV "Mapping and Geographic Information Systems", 1996 - 2000

Intercommission Working Group IV/III.2

"Integration of Image Analysis and GIS"

#### INVITATION

With this first letter we would like to present a new working group of the ISPRS. The WG is an Intercommission WG related to ISPRS Commissions IV and III and hosted by Com. IV. The focus of the WG is in the integration of image analysis with techniques, models, data, and other knowledge of GIS.

Images are one of the main sources of geoinformation. Methods to automate feature extraction from images are a wide topic of research but up to now their success was limited due to the complexity of the task. Two of the most promising approaches to make this problem easier is the use of multiple, complementary information, and of existing knowledge and information. Both approaches can be realised within a GIS, where various informations within the same geographic reference system exist. Thus, it is not surprising that during the last few years different projects have been started along these lines, some of them concentrating on change detection and update of 2D databases.

The aim of the WG is to provide a forum for exchange of experiences and ideas between researchers, developers and users, and ways of coordinating research efforts within ISPRS in order to speed up the advancement of the techniques and their practical implementation.

You are kindly invited to participate in the activities of this WG. In the following we list the terms of reference as well as the planned activities and characterize the objectives. If you want to join the WG please send back the attached mailing list form. Please feel free to pass this information to other colleagues who may be interested in the WG.

Yours sincerely,  
Manos Baltsavias, Zurich and Michael Hahn, Brisbane

Chairpersons:  
Dr. Manos Baltsavias, Dr. Michael Hahn

Secretary:  
Dirk Stallmann

Addresses:  
Manos Baltsavias, Institute of Geodesy and Photogrammetry, ETH-Hoenggerberg,  
CH-8093, Zurich, Switzerland  
Tel./Fax: +41-1-6333042/6331101, [manos@geod.ethz.ch](mailto:manos@geod.ethz.ch)

Michael Hahn, Space Centre for Satellite Navigation, Queensland University  
of Technology, GPO Box 2434, Brisbane, QLD 4001, Australia  
Tel./Fax: +61-7-38642458/38641361, [Michael.Hahn@ifp.uni-stuttgart.de](mailto:Michael.Hahn@ifp.uni-stuttgart.de)  
(on leave of absence from Institute of Photogrammetry, University of Stuttgart  
until June 1997)

Dirk Stallmann, Institute of Photogrammetry, University of Stuttgart,  
Keplerstr. 11, D-70174 Stuttgart, Germany  
Tel./Fax: +49-711-1213387/1213297, [Dirk.Stallmann@ifp.uni-stuttgart.de](mailto:Dirk.Stallmann@ifp.uni-stuttgart.de)

WWW-Homepage of the WG: [http://www.ifp.uni-stuttgart/comm4/wg4\\_32.html](http://www.ifp.uni-stuttgart/comm4/wg4_32.html)

#### TERMS OF REFERENCE OF IC WG IV/III.2

- \* Use of GIS data and models to support image analysis;
- \* Matching of image features and GIS objects for change detection and database revision;
- \* Reconciliation of object modelling used in image analysis and GIS;
- \* Investigation and development of techniques for geocoded multisensor data fusion;
- \* Use of image analysis techniques to extract height information for 2D databases;
- \* Integration of image analysis techniques with GIS for querying, analysis and representation of spatial data;
- \* Treatment of uncertainties, generalization, and scale and temporal differences of GIS and image derived data.

#### WG OBJECTIVES

WG IV/III will focus on the interrelated topics of Image Analysis and Geographic Information Systems. A first goal is the identification of researchers and developers that are interested in this interdisciplinary field. On the one side of this forward-looking area there is the aspect that image analysis provides one of the most efficient tools for GIS data capture using a variety of image data. On the other hand the potential of existing GIS data sets for image analysis is recognized for some time but work on how to exploit this information within image analysis has just started recently. In between, there is a lot of unsolved problems, e.g. the matching of GIS objects with various image representations, or the use of GIS models, data or procedures for extraction of objects from images. Interest is also in themes which are oriented towards the needs of GIS users, for example, the task of extracting the third dimension for 2D data bases. Further aspects are addressed in the terms of reference above.

#### PLANNED ACTIVITIES UNTIL 2000

At this stage it is not possible to precisely outline the activities for the next years. However, a rough plan is:

- \* To set up a WWW-page with news about WG activities, related conferences, projects and publications, and links to home pages of WG members
- \* A business meeting in Stuttgart during the 46th Photogrammetric Week, Sept. 22-26, 1997
- \* Coorganise a joint workshop of Commission III and IV working groups on topics of Computer Vision and GIS at the beginning of September 1997 (to be announced)
- \* Sessions during the ISPRS Commission III Symposium in Columbus, Ohio, USA, July 6-10, 1998
- \* Sessions and a tutorial on 'Image Analysis and GIS' during the ISPRS Commission IV Symposium in Stuttgart, Germany, September 7-10, 1998
- \* Prepare a special issue for the ISPRS Journal in 1999
- \* Organisation of a workshop in 1999
- \* Sessions during the 19th ISPRS Congress in Amsterdam, The Netherlands, July 14-26, 2000

If you are interested in cooperating and want to receive further information in future, please fill out the following questionnaire:

ISPRS Working Group IV/III.2 "Integration of Image Analysis and GIS"

Name:  
Address:  
Phone:  
Fax:  
Email:

(Cross one). I have a WWW browser: .... Yes, .... No

My field of interest is :

(Cross one): I want to be an .... active, .... passive member

Further comments and proposals on the WG activities:

If you maintain own WWW-pages, please give us the address of these pages and a short title, and we will provide a link to it.

WWW address:  
Short title:

If there is no WWW link to your WG related projects and publications,

please supply us with the following information:  
- short information on past, current or planned projects  
- list of publications

The information that you will supply will be made available to all WG members via WWW, e-mail etc.

Thank you for your collaboration !

Please return this form by e-mail (preferably), fax or mail to Dirk Stallmann (see address above)

> From: [nerona@ece.ucsd.edu](mailto:nerona@ece.ucsd.edu)  
> Subject: CFP: Visual '97

#### CALL FOR PAPERS

2nd International Conference on Visual Information Systems

VISUAL'97  
15-17 December 1997  
Sea Lodge Hotel, San Diego, California, USA

(Postscript version of the Visual '97 CFP is available from:  
<http://vision.ucsd.edu/visual97/call.ps.Z>)

Present day information systems are mainly based on alphanumeric information. The effective use of visual information for organizational applications has been limited and mostly confined to highly specialized applications. Visual information systems (VIS) will not only substantially enhance the value and usability of existing information, but will also open up a new horizon of previously untapped information sources. Future information systems in commercial and scientific applications will have a high visual content, and it is necessary to integrate the visual and image components into the architecture of organizational information systems. It is expected that VIS will supersede existing Information Systems, while maintaining all the strengths and fulfilling all the functions of the latter. Although there has always been a demand for visual information, the technology for such systems were either insufficiently mature or unavailable in the past. VIS is now becoming increasingly feasible because of rapid advances in hardware and software technologies. The construction of VIS represents a radical departure from building conventional systems, and many novel, fundamental, and architectural issues will need to be addressed. The conference will focus attention on the application and management of visual information and will include, but is not restricted to, the following topics:

- \* Visual information systems paradigms and architecture
- \* Content-based indexing, search and retrieval
- \* Image databases
- \* Visual data modelling and integration
- \* Memory organization, management and storage models
- \* Feature (invariant) recognition and content extraction
- \* Picture description, representation and indexing languages
- \* Query models, paradigms, and languages for visual information retrieval
- \* Image query processing and optimization
- \* Support environment for visual information systems implementation
- \* Integration of visual and non-visual information
- \* Parallel processing in visual information systems
- \* Image crawling and the net
- \* Authoring image information presentations
- \* Compression and delivery of visual information
- \* Specific applications areas of visual information systems

Both work in progress as well as fully developed systems will be of interest to the conference.

The conference is organized in cooperation with the University of Aizu, University of California, San Diego, University of Pittsburgh, and Victoria University of Technology.

#### PAPER SUBMISSION

Intending authors are requested to fill in the Pre-submission interest form at <http://vision.ucsd.edu/visual97/interest.html>.

Authors should submit three copies of full paper of no more than 25 double-spaced pages by 1 April 1997 to the Program Chair:  
Ramesh Jain  
Department of Electrical and Computer Engineering  
University of California, San Diego  
9500 Gilman Drive  
La Jolla, CA 92093-0407

The first page should include the authors' names, affiliation, telephone and fax numbers, postal and email addresses and an abstract. Authors are encouraged to submit the papers electronically in Postscript form (see the Instructions for Authors at <http://vision.ucsd.edu/visual97/authors.html>). Papers will be reviewed internationally. Detailed instructions for manuscript preparation will be sent at the time of acceptance notification, and

will also be available from the Web page.

Accepted papers must be presented at the Conference with the presenting author registering as a delegate in order for the paper to be included in the proceedings. Conference proceedings will be published and distributed to participants at the conference. It is also planned to publish the papers in book form after the conference.

#### IMPORTANT DATES

Papers due: 1 April 1997  
Notification of acceptance: 1 July 1997  
Camera ready paper due: 1 September 1997  
Conference: 15-17 December 1997

#### GENERAL CHAIR

Shi-Kuo Chang, University of Pittsburgh, USA  
E-mail: [chang@cs.pitt.edu](mailto:chang@cs.pitt.edu)

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#### PROGRAM COMMITTEE

Alberto Del Bimbo, Universita degli Studi di Firenze, Italy  
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Athula Ginige, University of Technology Sydney, Australia  
William Grosky, Wayne State University, USA  
Wendy Hall, University of Southampton, UK  
Yannis Ioannidis, University of Wisconsin, USA  
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Rangachar Kasturi, Pennsylvania State University, USA  
Robert Laurini, INSA-Lyon, France  
Kingsley Nwosu, Lucent Technologies, USA  
S. Panchanathan, University of Ottawa, Canada  
Dragutin Petkovich, IBM Almaden Research Center, USA  
Amit P. Sheth, University of Georgia, USA  
Ishwar K. Sethi, Wayne State University, USA  
Masao Sakauchi, University of Tokyo, Japan  
Stephen Smoliar, FX Palo Alto Laboratory, USA  
Wu Jian Kang, National University of Singapore, Singapore

Further information and updates are available on the World Wide Web at:  
<http://vision.ucsd.edu/visual97/> or by contacting:

Visual '97 Conference Secretariat  
c/o Ms. Edna Nerona  
Department of Electrical Engineering  
University of California  
San Diego, California, USA  
E-mail: [nerona@ece.ucsd.edu](mailto:nerona@ece.ucsd.edu)

The conference is organized in cooperation with the IEEE (approval pending) and the ACM (approval pending), and TC12 for multi-media information processing of the IAPR (approval pending).

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> From: Manos Baltasvias <[manos@geod.ethz.ch](mailto:manos@geod.ethz.ch)>  
> Subject: CFP: Special Issue of CVIU

Call for Papers for a Special Issue of  
Computer Vision and Image Understanding (CVIU) on

Building Detection and Reconstruction from Aerial Images

Automated methods for reliable 3-D reconstruction of man-made objects are essential to many users and providers of 3-D city data, including urban planners, architects, and telecommunication and environmental engineers. Manual 3-D processing of aerial images is time consuming and requires the expertise of highly qualified personnel. Therefore, the necessity to interpret, classify and quantitatively process aerial images in a semi- or fully automatic mode and to integrate the results into CAD- and spatial information systems is more urgent than ever. An important class of man-made object consists of buildings, such as



residential houses, industrial buildings, and garages. Their detection and reconstruction may involve several processing components such as: feature extraction, matching, 2-D and 3-D grouping, color and object modeling, geometric reasoning, visualization, and photogrammetric techniques.

This special issue of the Computer Vision and Image Understanding will be a forum to present recent research results on building detection and 3-D reconstruction from aerial images. Topics addressed will include:

- \* 3-D feature extraction
- \* Grouping of object parts
- \* Use of object models
- \* Multi-sensor approaches
- \* Matching of 3-D features to models
- \* GIS-supported extraction
- \* Visualisation techniques
- \* Degree and art of human intervention
- \* Incorporation of geometric sensor models and photogrammetric techniques

We expect the special issue to appear early 1998. Guest editors of the special issue are Prof. Ramakant Nevatia (USC) and Prof. Armin Gruen (ETH).

Submission Deadline: April 14, 1997

Submission procedure:

Interested authors are invited to submit original papers to this issue. The manuscript should be in accordance to the procedures of the Computer Vision and Image Understanding (CVIU). Please send five copies of the complete manuscript to:

Prof. Dr. Armin Gruen  
Institute of Geodesy and Photogrammetry  
ETH-Hoenggerberg  
CH-8093 Zuerich  
Switzerland  
tel: +41 1 633 3038  
fax: +41 1 633 1101  
email: [ascona@geod.ethz.ch](mailto:ascona@geod.ethz.ch)

---

> From: Karolj Skala <[skala@olimp.irb.hr](mailto:skala@olimp.irb.hr)>  
> Subject: Call for papers

[MIPRO Logo] Announcement & Call For Papers [IEEE Logo]

CROATIAN SOCIETY IEEE  
MIPRO Region 8

[Image]  
20th Annual International Conference

MIPRO '97

Symposium on Multimedia and Hypermedia Systems  
[Image]

19 to 23 of May 1997.  
Opatija, CROATIA  
Congress Center Grand Hotel Adriatic

organized by:  
Croatian Society MIPRO  
IEEE Croatia Section  
and  
University of Zagreb, Faculty of Electrical Engineering and Computing

This conference is devoted to presenting and exploring scientific and technological advancement and original innovative applications in field of Multimedia and Hypermedia. Conference is to promote existing hardware and software products, to encourage mutual exchange of expertise in higher scientific and technical aspects of Hypermedia systems, and to create an opportunity for establishing new professional contacts.

[Image]

MAJOR TOPICS

[Image] Multimedia/Hypermedia Technologies and Systems  
[Image] Multimedia/Hypermedia Applications in Education  
[Image] Evaluation of Multi-Hypermedia Systems  
[Image] Computer Mediated Integral Communication  
[Image] Computer Supported Cooperative Work  
[Image] Virtual Reality  
.....and related areas

[Image]

STEERING COMMITTEE

Chair: Karolj Skala, Institute "Rudjer Boskovic" Zagreb, Croatia  
Members: Vito Cappellini, Universita di Firenze, Italy

Sasa Divjak, University of Ljubljana, Slovenia  
K?m? Fazekas, Technical University of Budapest, Hungary  
Jan Gecsei, Universite de Montreal, Canada  
Hermann Maurer, Graz University of Technology, Austria  
Mitchell Krell, University of Southern Mississippi, USA  
Predrag Pale, University of Zagreb, Croatia  
Branka Zovko Cihlar, University of Zagreb, Croatia

[Image]

#### CALL FOR PAPERS

Authors are invited to submit abstracts and application forms, as well as camera-ready papers to the address:

HD MIPRO, N. Tesle 9/7, 51 000 Rijeka, Croatia or by email:  
[mipro@olimp.irb.hr](mailto:mipro@olimp.irb.hr)

Deadlines:

Abstracts (English, 100 words maximum) and application forms  
December 30, 1996

Instructions for authors mailed January 15, 1997

Notification of acceptance mailed February 20, 1997

Accepted papers will be published in the ISBN registered conference proceedings.

Official conference language are English.

#### PRELIMINARY REGISTRATION

Name:

Surname:

Company/Institution:

Address:

Title of the paper:

I intend to submit a paper and present it

I enclose an abstract of my paper

Topic of the Paper:

Multimedia/Hypermedia Technologies and Systems

Multimedia/Hypermedia Applications in Education

Evaluation of Multi-Hypermedia Systems

Computer Mediated Integral Communication

Computer Supported Cooperative Work

Virtual Reality

Your Suggestion:

I intend to attend the Symposium

I am interested in the mini-exhibition facilities

I am interested in Symposium Proceedings only

We're looking forward to seeing you in Opatija!

-----  
Again, wish you a happy new year!

Your TC10 chairman.

--  
Atul K. Chhabra Phone: (914)644-2786  
NYNEX Science & Technology Fax: (914)644-2561  
500 Westchester Avenue Email: [atul@nynexst.com](mailto:atul@nynexst.com)  
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TC10 WWW URL: <http://www.iapr-tc10.or.kr/>

TC10 News submissions and subscription requests to: [atul@nynexst.com](mailto:atul@nynexst.com)