

# Newsletter 35

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Dear TC10 members.

Here is the last mail for 1995. First, I got this announcement from a colleague; there are probably several people out there who will be interested by this thesis:

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#####  
>From: "A. Antonacopoulos" <A.Antonacopoulos@csc.liv.ac.uk>  
>Subject: abstract
```

Dear Karl,

Here is the abstract of my PhD thesis:

=====

"Page Segmentation and Classification  
Using the Description of the Background:  
A Flexible and Efficient Approach for Documents with  
Complex and Traditional Layouts"

Apostolos Antonacopoulos

Department of Computation  
University of Manchester Institute of Science and Technology

1995

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NEW ADDRESS: Dept. of Computer Science, University of Liverpool, P.O. Box 147,

Liverpool, L69 3BX, UK. e-mail: [aa@csc.liv.ac.uk](mailto:aa@csc.liv.ac.uk)

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## Abstract

There is a significant and growing need to convert documents from printed paper to an electronic form. Document image analysis is concerned with the segmentation of the document image into regions of interest, their description, and the classification of the regions according to the type of their contents.

In this thesis, a new unified approach to page segmentation and classification, based on the description of the background with tiles, is presented. The segmentation method is flexible to successfully analyse and precisely describe regions in complex layouts where other methods fail. Images with severe skew are handled equally well with no additional computations, in contrast to the other approaches that require computationally expensive skew correction. The classification is based on textural features which are derived by simple calculations from the representation of space in the regions, produced during the segmentation process. This is a considerable advantage over previous methods in which additional image accesses and lengthy computations are necessary. Furthermore, as in the case of segmentation, documents with complex- shaped regions and skewed images are analysed with no extra processing. Overall, the whole approach of segmentation and classification by white tiles is fast and efficient as no time-consuming processes are required and the two stages co-operate making the most out of using the description of the background space both surrounding and inside printed regions.

The thesis starts with an introduction to document image analysis, the stages and processes involved, and the definition of the research problem. The different document analysis strategies reported in the literature are categorised and reviewed next. Following that, existing individual methods for page segmentation and for classification are separately presented in a comprehensive way and are critically appraised. The methods that are the subject of this thesis are subsequently described in detail, and their performance is analysed and discussed with illustrations of representative results. Finally, conclusions are drawn on the effectiveness of the new document analysis approach and some suggestions for possible enhancements and

further extensions are made.

#### A Brief Biographical Note

The author received his B.Sc. in Mathematics and Computer Science (combined honours) from the University of Kent at Canterbury in 1990. Since then he has been involved in various image processing and analysis tasks.

He obtained an M.Sc. (by research) degree (February 1992) from the University of Manchester (Institute of Science and Technology, UMIST) for his work mainly in estimating three-dimensional parameters of objects from images of two-dimensional sections. This work was also developed by the author into a commercial system exploited by the company that sponsored the research.

Since then, he has been carrying out research in the analysis and understanding of document images, the main thrust of which is described in this thesis. For his work the author has received the Best Student Paper Award in the International Association for Pattern Recognition workshop on Document Analysis Systems, held in Kaiserslautern, Germany in 1994. Other projects pursued included the development of a system for the identification of key-field information (e.g. the name of the recipient) in scanned business letters for the purpose of automated indexing and routing. The author was also partly involved in a project for the analysis and recognition of scanned Braille documents.

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/-----\  
|  
| Dr Apostolos Antonacopoulos |  
| Department of Computer Science |  
| The University of Liverpool |  
| P.O. Box 147 |  
| Liverpool |  
| L69 3BX |  
| U.K. |  
|  
| Tel.: +44 (151) 794 3695 |  
| Fax.: +44 (151) 794 3715 |  
| E-mail: aa@csc.liv.ac.uk |  
|  
\-----/
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#####  
Again, I have received quite a lot of CFPs. I only include those who  
may reasonably interest some of you. I have a larger archive at the  
following WWW address:  
http://www.loria.fr/~tombre/CFP/maillist.html
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```
First, a reminder about ICPR'96, the main IAPR event in the next year:  
#####  
>From: gal@prip.tuwien.ac.at (Brigitta Galian)  
>Subject: Cfp ICPR'96
```

13th INTERNATIONAL CONFERENCE on PATTERN RECOGNITION  
Technical University of Vienna, Austria  
August 25 - 30, 1996

General Chair: Walter Kropatsch, Technical University of Vienna, Austria  
Honorary Chair: Azriel Rosenfeld, University of Maryland, USA  
Program Chair: Yiannis Aloimonos, University of Maryland, USA  
Program Co-Chair: Ruzena Bajcsy, University of Pennsylvania, USA  
Local Organizer: Horst Bischof, Technical University of Vienna, Austria

Contributions are sought on new research in all aspects of the broad field of Pattern Recognition. The ICPR'96 will consist of four parallel conferences of previously unpublished contributed papers, delivered either orally or as a poster, as well as invited papers of general or specific interest. The program for each individual conference will be organized by its own Program Committee. The opening session and the social events are common to all four conference parts. In addition, a set of tutorial sessions, given by prominent researchers in the field, will be offered during the day prior to the actual conference (Sunday). Specialized workshops, organized by technical committees, will be held in the local surroundings of Vienna during the week before the conference. The results of these workshops will be reported during the conference. The conference proceedings will be published by the IEEE Computer Society Press.

#### PAPER SUBMISSION =====

Paper submission deadline: January 15th, 1996  
Notification of acceptance: April 1996  
Camera-ready copy: May 1996

Send six copies of the paper to: 13th ICPR'96, c/o AUSTROPA Interconvention  
A- 1043 Vienna, Friedrichstrasse 7, PoB 30,  
Austria/Europe

Papers should not exceed 15 pages (12 pt, 1 1/2 line spacing) and in the first page they should include the names of the author(s) along with

affiliations and e-mail addresses. In addition to the manuscript the submission should include a summary page answering the following questions (please answer each question separately):

- (a) What is the original contribution of this work?
- (b) What is the most closely related work by others and how does this work differ?
- (c) Which track or tracks and which topics within a track are most appropriate for the submission? (The Conference is not limited to these topics and authors may specify that a paper falls in two or more categories not listed. Categories are used to best match papers with the expertise of the reviewers.)

Test data will be made available by WWW at <http://www.prip.tuwien.ac.at/icpr/icpr.html>.

This WWW page provides pointers to data around the world which should facilitate a comparison of results. Authors are kindly requested to register before submitting their final paper.

For further information on all ICPR conferences contact the secretariat at the above address or use e-mail: [icpr@prip.tuwien.ac.at](mailto:icpr@prip.tuwien.ac.at)

## CONFERENCE DESCRIPTIONS =====

### COMPUTER VISION =====

Program Chairs: Alex Pentland (MIT, USA)  
James L. Crowley (INPG, France)

Topics:

- Action Recognition
- Active Vision
- Analysis of Visual Motion
- Biological Models for Machine Vision
- Control of Perception
- Invariants and Geometry
- Learning in Computer Vision
- Object Recognition
- Real-Time Vision
- Shape Representation and Computation
- Vision Systems that Learn
- Visual Computation of Range and Geometry

### PATTERN RECOGNITION AND SIGNAL ANALYSIS =====

Program Chairs: Josef Kittler (Univ. of Surrey, U.K.)  
Harry Wechsler (G. Mason Univ., USA)

Topics:

- Feature Detection
- Filtering
- Mathematical Morphology
- Multiresolution Methods
- Signal Coding, Compression, Enhancement and Restoration
- Speech Analysis
- Statistical and Syntactical
- Pattern Recognition
- Texture Analysis
- Wavelets

### APPLICATIONS AND ROBOTIC SYSTEMS =====

Program Chairs: Ruud Bolle (IBM, USA)  
E. Dickmanns (Univ. d. Bundeswehr, Germany)

Topics:

- Automation
- Image Database Systems
- Medical Applications
- Mobile Robots
- Multi-media Systems
- OCR and Document Processing
- Quality Control
- Range Imaging
- Real-Time Systems
- Remote Sensing Applications
- Smart Sensors

### PARALLEL AND CONNECTIONIST SYSTEMS =====

Program Chairs: Michael Seibert (MIT, USA)  
Georg Hartmann (Univ. of Paderborn, Germany)

Topics:

Associative Memories  
Biological Models  
Cellular Structures  
Highly Parallel Architectures  
Learning Systems  
Multiprocessor Systems  
Multisensor Architectures  
Neural Networks  
Parallel Algorithms and Languages  
Perceptual Models  
VLSI Architectures

#####  
The MVA workshop series has traditionally been a place where a lot of graphics recognition papers have been presented. It is also one of the main themes of the workshop. Here is the CFP for the 1996 event:  
#####  
>From: Katsuhiko SAKAUE <sakaue@etl.go.jp>  
>Subject: MVA96

CALL FOR PAPERS <http://www.etl.go.jp:8080/etl/gazo/mva96/>

MVA'96: IAPR Workshop on Machine Vision Applications

November 12-14, 1996

Tokyo, Japan

The 5th IAPR Workshop on Machine Vision Applications will be held in Tokyo from November 12 to 14, 1996. The workshop is sponsored by the IAPR MVA Organizing Committee and co-sponsored by Keio University. The purpose of the workshop is to bring together researchers and practitioners from both academia and industry, and to exchange their knowledge and stimulate each other through intensive discussions on the following research topics.

Main Topic: Machine Vision and its Applications

Machine Vision Algorithms

Feature extraction, Range data and 3D analysis, Motion and/or Image sequence analysis, Neural network applications, Color image analysis, AI-based vision, Human interface, and related technologies.

Industrial Applications

Factory automation, Disaster prevention and rescue, Security control, Navigation, Mobile robots, Civil and construction engineering, Agriculture/Forestry/Fishery, Other applications, and related technologies.

Special Purpose Architectures

Intelligent sensors, VLSI image processor chips, Massively parallel processing, Architectures for 3D and/or motion processing, Image processing systems, Software environment for image processor, and related technologies.

Document, Map and Line Drawing Processing

Document image processing, Drawing recognition, Multimedia database, Map and engineering drawing database, Map processing and map-based systems, 3D reconstruction from maps or drawings, and related technologies.

The workshop will include several invited talks and about 100 papers for oral and poster presentations on the above topics. The official language of the workshop is English. Those who wish to present a paper are requested to submit four copies of an extended abstract of 500-1000 words with at least one main figure by May 15, 1996 to

Prof. Mikio Takagi  
Institute of Industrial Science  
University of Tokyo  
7-22-1 Roppongi, Minato-ku, Tokyo 106, Japan  
Fax: +81-3-3402-6226

The abstract should contain the following on the first page.

- 1) Title of the paper
- 2) Name(s) and affiliation(s) of the author(s)
- 3) Name and address of the person to be contacted, and also his/her phone/fax number(s) and E-mail address if available
- 4) Answers to the following questions:
  - a) What is the original contribution of this work?
  - b) Why should this contribution be considered important?

Important Dates

The paper must be submitted no later than May 15, 1996.  
Acceptance of the paper will be notified by July 15, 1996.  
Final camera-ready papers are due on September 13, 1996.

The information about the workshop is available by WWW at <http://www.etl.go.jp:8080/etl/gazo/mva96/>.

Workshop Sponsors

Sponsored by: IAPR MVA Organizing Committee  
Co-sponsored by: Keio University

IAPR MVA Organizing Committee

Workshop Co-chairs Program Chair  
Mikio TAKAGI (University of Tokyo) Katsuhiko SAKAUE (ETL)  
Shinji OZAWA (Keio University)

Committee Members (tentative)

Minoru ASADA (Osaka University) Shigeru SASAKI (Fujitsu)  
Masakazu EJIRI (Hitachi) Takeshi SHAKUNAGA (NTT)  
Kiyoshi IWATA (Fujitsu General) Shigeyoshi SHIMOTSUJI (Toshiba)  
Masatsugu KIDODE (Toshiba) Yasuhito SUENAGA (NTT)  
Akira MAEDA (Mitsubishi Electric) Johji TAJIMA (NEC)  
Takeshi MASUDA (ETL) Masao TAKATOO (Hitachi)  
Shin'ichiro OKAZAKI (NEC) Hidekazu TSUJI (Mitsubishi Electric)  
Hideo SAITO (Keio University) Koji WAKIMOTO (Mitsubishi Electric)

For further information, please contact  
Prof. Mikio Takagi  
Institute of Industrial Science, University of Tokyo  
7-22-1 Roppongi, Minato-ku, Tokyo 106, JAPAN  
Phone: +81-3-3479-0289 Fax: +81-3-3402-6226  
E-mail: [takagi@tkl.iis.u-tokyo.ac.jp](mailto:takagi@tkl.iis.u-tokyo.ac.jp)

Inquiry Form

Name \_\_\_\_\_  
Address \_\_\_\_\_  
Fax \_\_\_\_\_ E-mail \_\_\_\_\_  
(Please tick if appropriate)  
 I wish to receive further information  
and registration form.  
 I intend to participate in the workshop.  
 I intend to submit a paper.  
The tentative title of the paper is: \_\_\_\_\_

#####  
I have also received several other CFP or reminders which may be of  
interest to some of you at least. Here is one about the CADCV  
workshop, which has extended its deadline:

#####  
>From: "Patrick J. Flynn" <[flynn@eecs.wsu.edu](mailto:flynn@eecs.wsu.edu)>  
>Subject: Deadline Extension: IEEE CAD-Based Vision Workshop

Call for Papers : IEEE 3rd CAD-Based Vision Workshop

\*\*\*\* SUBMISSION DEADLINE EXTENDED TO JAN 8, 1996 \*\*\*\*

(this doc is equivalent to <http://web.cps.msu.edu/~stockman/cadcv96.html>)

In conjunction with CVPR 1996)  
Hotel Nikko  
San Francisco, California  
June 20--21, 1996

GENERAL CHAIR:  
George Stockman, [stockman@cps.msu.edu](mailto:stockman@cps.msu.edu)  
Dept. of Computer Science, Michigan State University  
East Lansing, MI 48824

PROGRAM CO-CHAIRS:

Octavia I. Camps Patrick J. Flynn  
[camps@whale.ece.psu.edu](mailto:camps@whale.ece.psu.edu) [flynn@eecs.wsu.edu](mailto:flynn@eecs.wsu.edu)  
Dept. of Electrical Engineering School of EECS  
The Pennsylvania State University Washington State University  
University Park, PA 16802 Pullman, WA 99164-2752

This workshop continues the successful sequence of workshops  
"Future Directions of CAD-Based Vision," (Maui, Hawaii, Jun. 1991)  
and "2nd CAD-Based Vision Workshop", (Seven Springs, Penna, Feb. 1994).

AREAS OF INTEREST INCLUDE (but are not limited to):

Performance evaluation of CAD-based vision systems;  
Observation-based CAD model generation techniques;  
CAD-based sensor and appearance simulation techniques;  
CAD-database information retrieval and feature selection techniques;  
CAD-based object recognition strategies and their automatic generation;  
CAD-based navigation strategies and their automatic generation  
techniques landmark recognition;  
CAD-based inspection strategies and their automatic generation techniques  
(including sensor planning);

PROGRAM COMMITTEE:  
B. Bhanu (U. of California, Riverside),  
K. Bowyer (U. of South Florida),  
K. Boyer (Ohio State U.),  
H. Christensen (Aalborg U., Denmark),  
S. Dickinson (Rutgers U.),

D. Eggert, (Edinburgh U., UK),  
K. Hong, (POSTECH, Korea),  
A. Jain (Michigan State U.),  
X. Jiang, (U. Bern, Switzerland),  
A. Kak (Purdue U.),  
S. Pentland (MIT),  
B. Seales (U. of Kentucky),  
L. Shapiro (U. of Washington),  
N. Yokoya (Nara Inst. of Science and Technology, Japan).

PAPER SUBMISSIONS:

Four copies of the full paper must be received by no later than January 8, 1996 (extended from Dec 15, 1995) by Prof. Camps at the address given above.

The papers should be submitted IN FINAL, CAMERA-READY FORMAT with 2 columns on 8.5 by 11 un-numbered sheets. Each column is limited to 3 1/4 inches in width and 8 7/8 inches in length with a 3/8 inch gutter between columns. The margins are 13/16 inch on each side, 1 1/16 inches on the top and bottom. Text must be single-spaced, 10 point Times Roman with 12 point interline spacing. The first page of the paper should include the paper title, authors' name and affiliation, centered on the top, below the top margin. The paper should be 10 pages or less.

In addition, the submission should include a summary page answering the following questions:

1. What is the original contribution of this work?
2. Why should this contribution be considered important?
3. What is the most closely related work by others and how does this work differ?
4. How can other researchers make use of the results of this work?

Information about the entire CVPR conference, tutorials and workshops including maps, hotels, etc. is available on the web via

<http://www.cs.wisc.edu/cvpr96/>

#####  
SSPR has also extended its deadline:  
#####  
>From: Petra Perner <[perner@imise.uni-leipzig.de](mailto:perner@imise.uni-leipzig.de)>

2.Call for Paper  
SSPR'96  
IAPR International Workshop on Structural and Syntactical Pattern Recognition  
August 20-23, 1996  
Leipzig, Bach's Home Town

General Information  
Structural and syntactical pattern recognition encompasses all aspects of pattern recognition that are related to the structure and/or syntax of patterns under consideration as a basis for their recognition.  
SSPR'96 is the sixth workshop in a series of workshops organized by the Technical Committee on SSPR of the International Association of Pattern Recognition (IAPR), and held traditionally in conjunction with the large IAPR International Conference on Pattern Recognition (ICPR).  
The workshop will be held in August 1996 in Leipzig. The goal of this workshop is to provide a forum for discussing issues related to structural and syntactic pattern recognition. These issues include, but are not limited to, the following issues:

- General methodology,
- Machine learning and grammatical inference,
- Structure document image analysis: handwriting, maps, technical drawings,
- Speech and one-dimensional signal analysis,
- Structural methods in image processing,
- Shape analysis,
- Structural methods in computer vision,
- Structural analysis of 3d object recognition.

Honorary Chairperson

Azriel Rosenfeld  
University of Maryland, College Park, USA

Co-chairpersons

Petra Perner Patrick Wang  
Institute of Computer Vision and College of Computer Science  
applied Computer Sciences e.V. 221 Cullinane Hall  
PSF 1519 Northeastern University  
04257 Leipzig, Germany Boston, Massachusetts 02115, USA  
[perner@imise.uni-leipzig.de](mailto:perner@imise.uni-leipzig.de) [pwang@ccs.neu.edu](mailto:pwang@ccs.neu.edu)

We solicit contribution of two types:

- Research papers (extended abstracts limited to 10 double-spaced pages)
- Position papers (about any of the relevant issues).

The workshop will feature paper presentations, discussions and panels based on position papers submitted. It is planned to publish the papers by Springer Verlag in the series Lecture Notes in Computer Sciences. In addition to that,

outstanding papers will be selected for journal publication as late memory issue of Prof. K.S. Fu (founder of IAPR and SSPR).

#### Location of the Workshop

Leipzig is a very old city in the south of Berlin. It is famous for its cultural traditions and facilities such as Gewandhaus, a famous music hall, and Gewandhaus orchestra, St. Thomas Church, Bach museum, Auerbach's Cellar etc.. It is also a very important university town. Leipzig's wealth is based on trade and industry. Besides the conference we can offer excursions or visits, e.g. visit to Bach museum where you are shown original handwritings of Bach and where you will hear a concert of his music. We will also visit a castle near Leipzig. It is known as the oldest preserved castle in the state Saxonia. It is famous for the late gothic style chapel with wood carvings from Peter Breuer. We will have a banquet there in historic atmosphere.

#### Important Dates:

December 31, 1995: Paper Submission  
March 20, 1996: Notification of Acceptance  
May 20, 1996: Camera Ready Paper

Six Copies of papers should be sent to the following address:

Institut fuer Bildverarbeitung und angewandte Informatik e.V.  
- SSPR'96 -  
Postfach 1519  
04257 Leipzig, Germany

The address given in the first Call for Paper is also valid, but preferred is the address given above.

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#####  
Here is the CFP of a PR-IU workshop which may be of interest to some  
of you:  
#####  
>From: "Igor B. Gourevitch" <igourevi@nsk.rc.ac.ru>
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Dear Colleague,

I am sending You the Announcement and Call for Papers for The 4-th Open German-Russian Workshop on Pattern Recognition and Image Understanding. I hope that You'll consider interesting to take part in the Workshop. Will You please also inform your colleagues on the event.

Best Regards

Dr.-Eng. Igor Gourevitch  
Scientific Secretary of the Workshop Committee

#### 1. ANNOUNCEMENT and CALL FOR PAPERS

The 4-th Open German-Russian Workshop on  
Pattern Recognition and Image Understanding  
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#### General Information:

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The general goal of the series of workshops, held in former years in Berlin, St. Petersburg, and Erlangen, is to establish and improve scientific contacts between researchers from Russia, Germany, and other countries in order to advance the important field of Pattern Recognition and Image Understanding.

#### Time and Location:

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The Workshop will be held from 4. March to 8. March, 1996 at the Valday resort area located 300 km to south-east from St.-Petersburg and 400 km to north-west from Moscow.

Details of travel information and travel arrangements will be announced at a later time.

#### Topics of Interest:

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Mathematical Theory of Pattern Recognition  
Mathematical Theory of Image Processing, Analysis, Recognition and Understanding  
Formalization and Representation of Raw Data in PR&IU  
Image Simulation and Image Models  
Computer Vision  
Machine Learning  
Knowledge Based Recognition and Interpretation  
Knowledge Based Applications  
Descriptors, Features and Primitives  
Object Recognition and Localization  
Data Bases and Knowledge Bases for PR&IU  
PR&IU Systems  
Neural Nets  
Applications

New Architectures, Specialized Computers, Applied and System  
Software Tools for PR&IU

Participation:  
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The Workshop is open to all scientists working in one of the above  
"Topics of Interest". The number of participants will be limited to  
about 100.

1. There will be workshop fee. Its amount will be declared in the 2-d  
Announcement.
2. There is an opportunity to organize postconference tours to Moscow  
and St.-Petersburg (scientific and cultural events). The details  
and prices will be declared in the 2-d Announcement.

Registration and Submission of Papers:  
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Please, indicate your interest in participation as soon as possible  
after receiving this email by making a preliminary registration. Plea-  
se, send your PRELIMINARY REGISTRATION either  
by email to [niemann@informatik.uni-erlangen.de](mailto:niemann@informatik.uni-erlangen.de),  
or by Fax to H. Niemann, +49-9131-691185,  
or by email to [igourevi@nsk.rc.ac.ru](mailto:igourevi@nsk.rc.ac.ru)  
or by Fax to I.B. Gourevitch, +7-095-129-0797.

Papers will be selected by the Organizers on the basis of a 3 - 5 page  
abstract.

The first page should include:

TITLE (capitals, 14 pts)  
Names of Authors |  
Affiliation |  
Address | 1.5-spaced, 12 pts  
e-mail |  
Annotation (up to 10 lines)|

In addition, Posters may be submitted to the Workshop by sending an  
abstract in the above format. Computers will be made available for  
software demonstrations.

Please, SUBMIT AN ABSTRACT in the above format as soon as possible,  
but not later than 16. January 1996.

Abstracts from the FUSSR and from the rest of the world - excluding  
Germany - should be sent  
either by Fax to I.B. Gourevitch, +7-095-129-0797,  
or by email to [igourevi@nsk.rc.ac.ru](mailto:igourevi@nsk.rc.ac.ru)  
full address:  
Dr.-Eng. Igor B. Gourevitch  
Scientific Council "Cybernetics" of the Russian Academy of Sciences,  
40, Vavilov str,  
Moscow 117967  
Russian Federation  
tel.: 7-095-129-0797  
fax: 7-095-129-0797  
e-mail address: [igourevi@nsk.rc.ac.ru](mailto:igourevi@nsk.rc.ac.ru)

Notification of acceptance will be by end of January, 1996.

Publication of Papers:  
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A "Collection of Abstracts" will be available at the Workshop.

The presentation of a paper will have 30 minutes, including discussi-  
on.

Full papers will be published in 1996 in the journal "Pattern Recogni-  
tion and Image Analysis". A full paper is limited to not more than 36  
pages (double-spaced, 12 pts). A poster may be published as a paper.

Addresses:  
-----

Participants should contact:

Prof. Dr.-Ing. H. Niemann  
Forschungsgruppe Wissensverarbeitung  
Bayerisches Forschungszentrum fuer Wissensbasierte Systeme (FORWISS)  
Am Weichselgarten 7  
91058 Erlangen  
Germany  
tel.: 49-9131-691195 (or 857774)  
fax.: 49-9131-691185  
email: [niemann@informatik.uni-erlangen.de](mailto:niemann@informatik.uni-erlangen.de)

Dr.-Eng. Igor B. Gourevitch  
Scientific Council "Cybernetics" of the Russian Academy of Sciences,  
40, Vavilov str,  
Moscow 117967  
Russian Federation  
tel.: 7-095-129-0797



fax: 7-095-129-0797  
e-mail address: [igourevi@nsk.rc.ac.ru](mailto:igourevi@nsk.rc.ac.ru)

#####  
Here is another CFP:  
#####  
>From: Stanislav Kovacic <[Stanislav.Kovacic@fer.uni-lj.si](mailto:Stanislav.Kovacic@fer.uni-lj.si)>  
>Subject: 3-rd Slovenian-German Conference

#### CALL FOR PAPERS

3rd Slovenian-German and 2nd SDRV Workshop

#### SPEECH AND IMAGE UNDERSTANDING

April 24 - 26, 1996

Faculty of Electrical and Computer Engineering  
University of Ljubljana, Ljubljana, Slovenia

#### SCOPE OF THE WORKSHOP:

- image analysis and understanding,
- active vision,
- speech analysis and understanding,
- spoken queries systems.

#### ORGANISERS:

- The Slovenian Society for Pattern Recognition  
(Slovensko drustvo za razpoznavanje vzorcev - SDRV)
- University Erlangen-Nuremberg, Lehrstuhl fuer Mustererkennung - IMMD 5

#### WORKSHOP STRUCTURE:

The workshop will be a three-day event consisting of oral papers presentations and poster sesions selected by the program committee.

#### REQUIREMENTS & SUBMISSIONS:

Authors who wish to present a paper at the workshop should send their full-lenght draft paper (in English) to the Workshop Secretariat by 15 February 1996.

The papers should include:

- the title of the paper,
- author's name, address, telephone and fax number, and e-mail address,
- abstract,
- up to ten pages of text and figures.

A book of abstracts will be available at the workshop.  
Camera-ready papers which will be published in workshop proceedings will be due after the workshop.

REGISTRATION FEE: 200 DEM.

#### IMPORTANT DATES:

FEBRUARY 15, 1996 Initial submissions  
MARCH 15, 1996 Notification of acceptance, accomodation informations

#### AUDIO-VISUAL NEEDS:

An overhead projector will be available. Requests for other A/V equipment should be directed to the workshop secretariat.

#### INFORMATION ON THE WWW:

For more and recent information about the workshop, Ljubljana and Slovenia please look on the Internet WWW address:

[http://luz.fer.uni-lj.si/english/SPRS/workshop\\_96.html](http://luz.fer.uni-lj.si/english/SPRS/workshop_96.html)

#### WORKSHOP SECRETARIAT:

Nikola Pavesic  
University of Ljubljana  
Faculty of Electrical and Computer Engineering  
Trzaska 25,  
SI-61000 Ljubljana, Slovenia  
Tel: ++386 (61) 1768 315,  
Fax: ++386 (61) 1264 630  
E-mail: [nikolap@fer.uni-lj.si](mailto:nikolap@fer.uni-lj.si)

#####  
And the CFP for a multimedia modeling conference:  
#####

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MMM'96  
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#### Preliminary Call for Papers

Third International Conference on  
MULTIMEDIA MODELING  
Toulouse, France, 12-15 November 1996

The purpose of the MMM series of conferences is to bring together activities related to all aspects of multimedia modeling, in its broader sense, from multimedia networking to virtual worlds.

Its ultimate goal is to provide a better understanding of the basic paradigms and to establish conceptual links between them for a better design of future advanced multimedia systems.

MMM'96 will be a forum for presentation of the state of the art in the representation, processing, interaction, integration and retrieval of multimedia information, and will also provide an excellent orientation for newcomers.

In cooperation with IFIP WG6&10, (ACM and IEEE requested)

Research papers as well as proposals for tutorials and tool demonstrations are solicited particularly (but not restricted to) in the following areas:

- Multimedia and Hypermedia - Model-based Video/Vision/Graphics
- Formal models for MM & HM - Indexing & Retrieval of MM & HM
- Topological & Geometric Modeling - Integration of Graphics & Vision
- Integration of MM Information - Synchronization of MM Information
- Interactive MM & HM - MM & Virtual Reality
- MM Operating Systems - MM & HM Networking
- MM Database Modeling - Speech & Music Modeling
- Applications of MM & HM

MMM'96 will start with one day of tutorials, and will continue with three days of technical presentations. Tool presentations will be possible throughout the conference. The conference, organized by both LAAS-CNRS and ENSICA, will be held at ENSICA in Toulouse.

Conference Chairperson: Michel Diaz (LAAS-CNRS, F)  
Program Committee Chairperson: Jean-Pierre Courtiat (LAAS-CNRS, F)  
Tutorial Chairperson: Dick Bulterman (CWI, NL)  
Conference Organization Chairperson: Patrick Senac (ENSICA, F)

Program Committee: see provisional list below

#### Important Dates:

April 10, 1996 Submission deadline (for more details, see below)  
June 6, 1996 Notification of acceptance  
July 15, 1996 Camera-ready copy for final proceedings due

#### Submission policy:

Solicited are:

- Full original research papers (in English), 5 copies, up to 16 pages (including bibliography), 12 point, single spaced, including an informative abstract as well as names and affiliations of all authors, and a list of keywords facilitating the assignment of papers to referees.
- A cover letter naming a contact author (including postal and E-mail address) is required. The cover letter should also state that the paper has not been presented at another conference nor is it currently being considered by another conference or by a journal.
- Finally, the cover letter should include the statement that "when accepted, one of the authors will attend the conference to present the paper". Accepted papers will appear in a Proceedings book published by World Scientific
- Proposals for tool demonstrations (including hard- and software requirements)
- Proposals for tutorials.

All submissions should be sent to:

Jean-Pierre Courtiat  
MMM'96  
LAAS-CNRS  
7, avenue du Colonel Roche 31077 Toulouse Cedex France  
Tel: (33) 61.33.62.44 Fax: (33) 61.33.64.11 Email: [courtiat@laas.fr](mailto:courtiat@laas.fr)

For further information:

MMM'96 Organization Committee,  
ENSICA  
Place Emile Blouin 31056 Toulouse Cedex France  
Tel: (33) 61.58.75.14 (Patrick Senac), Fax: (33) 61.58.75.95  
Email: [mmm96@ensica.fr](mailto:mmm96@ensica.fr)

To obtain additional information, you may also browse our World-Wide Web pages, the URL is <http://www.ensica.fr/~mmm96>

Expression of interest in MMM'96:  
If you are interested in MMM'96, please return the following information to the Conference Organization Chairperson (preferably by E-mail to [mmm96@ensica.fr](mailto:mmm96@ensica.fr)):

Name (including title): .....

Affiliation: .....

Address: .....

Tel: ..... Fax: ..... Email: .....

I would like to receive further information about MMM'96 by MAIL or ELECTRONIC MAIL (please indicate), please put me on your mailing lists.

I intend to submit to MMM'96 a research paper

entitled: .....

.....

I intend to submit to MMM'96 a proposal for a tool demonstration

entitled: .....

.....

I would be interested in offering a tutorial

entitled: .....

```
#####  
Finally, for the CFPs, here is AAAI'96  
#####  
>From: dyer@cs.wisc.edu (Charles Dyer)  
>Subject: Call for Papers for AAAI-96
```

Thirteenth National Conference on Artificial Intelligence

August 4 - 8, 1996, Portland, Oregon

AAAI-96 -- the Thirteenth National Conference on Artificial Intelligence -- is sponsored by the American Association for Artificial Intelligence (AAAI).

Important Dates:

Electronic title page submission deadline January 3, 1996

Paper submission deadline January 9, 1996

Notification of acceptance March 11, 1996

Call for Papers

AAAI-96 is the thirteenth national conference on artificial intelligence (AI). The purpose of the conference is to promote research in AI and scientific interchange among AI researchers and practitioners.

Papers may represent significant contributions to any aspects of AI: a) principles underlying cognition, perception, and action; b) design, application, and evaluation of AI algorithms and systems; c) architectures and frameworks for classes of AI systems; and d) analysis of tasks and domains in which intelligent systems perform.

One of the most important functions served by the national conference is to provide a forum for information exchange and interaction among researchers working in different sub-disciplines, in different research paradigms, and in different stages of research. Based on discussions among program committee members during the past few years, we are continuing efforts to expand active participation in the conference to include a cross-section of the AI community and the community's research activities.

Accordingly, we encourage submission of papers that: describe theoretical, empirical, or experimental results; represent areas of AI that may have been under-represented in recent conferences; present promising new research concepts, techniques, or perspectives; or discuss issues that cross traditional sub-disciplinary boundaries. As outlined below, the paper review criteria is intended to recognize this broader spectrum of research contributions. We will continue the policy established in AAAI-94 of accepting more of the papers that are submitted, relative to prior years.

Timetable for Submission

Authors must first submit their paper's title page (preferably electronically, as described below) by January 3, 1996. Authors must then submit six (6) complete printed copies of their papers to the AAAI office by January 9, 1996. Papers received after that date will be returned unopened. Notification of receipt will be mailed to the first author (or designated author) soon after receipt. All inquiries regarding lost papers must be made by January 23, 1996. Notification of acceptance or rejection of submitted papers will be mailed to the first author (or designated author) by March 11, 1996. Camera-ready copy of accepted papers will be due about one month later.

## Electronic Title Page

Because of the huge number of submissions anticipated and the tight schedule required to assign reviewers, we require that authors who desire to submit a full paper declare their intention by sending AAAI a title page by Wednesday, January 3, 1996. The preferred method is by using a World-Wide-Web (WWW) browser such as Netscape to connect to:

<http://www.aaai.org/Conferences/National/1996/submit.html>

then filling out the form and finally pressing the submit button. (You can also access a link to this page by connecting to AAAI's home page, which is located at: <http://www.aaai.org> After submitting the form, the page will display a unique tracking number which should be marked on the full paper submission. Authors who do not have access to a WWW browser with forms support should mail a printed page to the AAAI office to arrive by January 3. (These authors may omit the tracking number). The printed page should use the following format:

\* author: <name of first author>  
\* address: <address of first author>  
\* author: <name of last author>  
\* address: <address of last author>  
\* abstract: <abstract>  
\* content areas: <first area>,  
..., <last area>

## Content Areas

To facilitate the reviewing process, authors are requested to select one or more appropriate content area keywords from the list below, to appear on the electronic title page and submitted paper. Please use the exact phrases below; do not make up new keywords, since they will be ignored by the paper classification software.

\* AI architectures  
\* applications  
\* art and music  
\* artificial life  
\* automated modeling  
\* automated reasoning  
\* control  
\* belief revision  
\* case-based reasoning  
\* causality  
\* cognitive modeling  
\* common sense reasoning  
\* computational complexity  
\* computer-aided education  
\* constraint satisfaction  
\* decision theory  
\* decision trees  
\* design  
\* description logics  
\* diagnosis  
\* discourse  
\* discovery  
\* distributed AI  
\* enabling technologies  
\* expert systems  
\* game playing  
\* genetic algorithms  
\* geometric or spatial reasoning  
\* information retrieval  
\* knowledge acquisition  
\* knowledge representation  
\* lifelike characters  
\* machine learning  
\* machine translation  
\* mathematical foundations  
\* multiagent systems  
\* multimedia  
\* natural language processing  
\* neural networks  
\* nonmonotonic reasoning  
\* ontologies  
\* perception  
\* philosophical foundations  
\* planning  
\* probabilistic reasoning  
\* problem solving  
\* qualitative reasoning  
\* reactive control  
\* real-time systems  
\* reinforcement learning, robotics  
\* scheduling  
\* scientific discovery  
\* search  
\* simulation  
\* software agents  
\* speech understanding  
\* syntax  
\* temporal reasoning  
\* theorem proving  
\* user interfaces  
\* virtual reality, vision

## Paper Format For Blind Review

All six (6) copies of a submitted paper must be clearly legible. Neither computer files nor fax submissions are acceptable. Submissions must be printed on 8 1/2 x 11 inch or A4 paper using 12 point type (10 characters per inch for typewriters). Double-sided printing is strongly encouraged. Reviewing for AAAI-96 will be blind to the identities of the authors. This requires that authors exercise some care not to identify themselves in their papers.

### Title Page

Each copy of the paper must have a title page, separate from the body of the paper, including the title of the paper, the names and addresses of all authors, a short abstract of less than 200 words, a list of content areas (see above), word count, tracking number from electronic submission of title page (see above), statement with respect to multiple submissions (see below), and acknowledgements (if any).

### Paper Body

The second page, on which the paper body begins, should include the same title, abstract, content areas, word count, tracking number, and statement with respect to multiple submissions, but not the names or affiliations of the authors. The references should include all published literature relevant to the paper, including previous works of the authors, but should not include unpublished works. When referring to one's own work, use the third person, rather than the first person. For example, say "Previously, Weld [13] has shown that...", rather than "In our previous work [13] we have shown that..." Try to avoid including any information in the body of the paper or references that would identify the authors or their institutions. Such information can be added to the final camera-ready version for publication. Please do not staple the title page to the body of the paper.

### Length

The body of submitted papers must be at most 7000 words, including footnotes, figure captions, tables, and appendices, but excluding the bibliography. The word count should appear on the title and second pages of the submitted paper. Papers longer than 7000 words will be returned without review.

### Review Process

Program committee (PC) members will identify papers they are qualified to review based on the information electronically presubmitted (e.g., the paper's title, content areas, and abstract). This information, along with other considerations, will be used to assign each submitted paper to three PC members. Using the criteria given below, they will review the paper independently; these reviews will be blind to the identities of the authors and their institutions. If the majority of the reviewers of a paper agree to accept or reject it, that recommendation will be followed. If the reviewers are unable to decide, the paper will be discussed by an appropriate sub-group of the PC during its meeting in March. In general, papers will be accepted if they receive at least two positive reviews or if they generate an interesting controversy among the reviewers. The final decisions on all papers will be made by the program chairs.

### Review Criteria

Questions that will appear on the review form appear below. Authors are advised to bear these questions in mind while writing their papers. Reviewers will look for papers that meet at least some (though not necessarily all) of the criteria in each category.

#### Significance

How important is the problem studied? Does the approach offered advance the state of the art? Does the paper stimulate discussion of important issues or alternative points of view?

#### Originality

Are the problems and approaches new? Is this a novel combination of existing techniques? Does the paper point out differences from related research? Does it address a new problem or one that has not been studied in depth? Does it introduce an interesting research paradigm? Does the paper describe an innovative combination of AI techniques with techniques from other disciplines? Does it introduce an idea that appears promising or might stimulate others to develop promising alternatives?

#### Quality

Is the paper technically sound? Does it carefully evaluate the strengths and limitations of its contributions? Are its claims backed up? Does the paper offer a new form of evidence in support of or against a well-known technique? Does the paper back up a theoretical idea already in the literature with experimental evidence? Does it offer a theoretical analysis of prior experimental results?

#### Clarity

Is the paper clearly written? Does it motivate the research? Does it describe the inputs, outputs, and basic algorithms employed? Are the results

described and evaluated? Is the paper organized in a logical fashion? Is the paper written in a manner that makes its content accessible to most AI researchers?

#### Videotape Support

If authors feel that an understanding of the dynamic behavior exhibited by their system is an important factor in judging the technical merit of the work, they may optionally include six (6) copies of a videotape of not more than five (5) minutes duration in NTSC-VHS (US standard only) format to the AAAI office by January 9, 1996, as part of their paper submission. Tapes should be labeled only with the tracking number and title of the paper submission; tapes cannot be returned.

#### Submissions to Multiple Conferences

Papers that are being submitted to other conferences, whether verbatim or in essence, must reflect this fact on the title page. If a paper appears at another conference (with the exception of specialized workshops), it must be withdrawn from AAAI-96. Papers that violate these requirements are subject to rejection without review.

#### Publication

Accepted papers will be allocated six (6) pages in the conference proceedings. Up to two (2) additional pages may be used at a cost to the authors of \$250 per page. Papers exceeding eight (8) pages and those violating the instructions to authors will not be included in the proceedings.

#### Copyright

Authors will be required to transfer copyright of their paper to AAAI.

#### Paper Submissions & Inquiries

Please send papers and conference registration inquiries to:

AAAI-96  
American Association for Artificial Intelligence  
445 Burgess Drive  
Menlo Park, CA 94025-3496

Registration and call clarification inquiries (ONLY) may be sent to the Internet address: [NCAI@aaai.org](mailto:NCAI@aaai.org).

Please send program suggestions and inquiries to:

Bill Clancey, Program Cochair  
Institute for Research on Learning  
3450 Hillview Drive  
Palo Alto, CA 54301  
[bill\\_clancey@irl.org](mailto:bill_clancey@irl.org)

Daniel Weld, Program Cochair  
Department of Computer Science and Engineering  
University of Washington  
P.O. Box 352350  
Seattle, WA 98195-2350  
[weld@cs.washington.edu](mailto:weld@cs.washington.edu)

Ramesh Patil, Associate Program Chair  
USC/Information Sciences Institute  
4676 Admiralty Way  
Marina del Rey, CA 90292  
[ramesh@isi.edu](mailto:ramesh@isi.edu)

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#### Student Abstract & Poster Program

AAAI-96 invites submissions to the student abstract and poster program. The goal of this program is to provide a forum in which students can present and discuss their work during its early stages, meet some of their peers who have related interests, and introduce themselves to more senior members of the field. The program is open to all pre-PhD students. Non-student advisors or collaborators should be acknowledged appropriately, as coauthors or otherwise. However, students are requested to honor the spirit of the program by submitting only work for which they are primary investigators.

#### Requirements for Submission

Authors must submit six (6) printed copies of a two-page abstract describing their research to the AAAI office by January 9, 1996. Abstracts received after that date will be returned unopened. Notification of receipt will be mailed to the author. All inquiries regarding lost abstracts must be made by January 23, 1996. Notification of acceptance or rejection of submitted abstracts will be mailed to the author by March 11, 1996. Camera-ready copy of accepted abstracts will be due about one month later.

#### Abstract Format

All six (6) copies of a submitted abstract must be clearly legible. Neither computer files nor fax submissions are acceptable. Submissions must be printed on 8 1/2 x 11 inch or A4 paper using 12 point type (10 characters

per inch for typewriters). Each page must have a maximum of 38 lines and an average of 75 characters per line (corresponding to the LaTeX article-style, 12 point).

#### Length

All abstracts must be no more than two pages, including: title, author's full name, postal address, phone number, e-mail address, text, any figures, tables, diagrams, and bibliography. Papers exceeding the specified length and formatting requirements are subject to rejection without review.

#### Submissions to AAAI-96 or Other Conferences

Students are free to submit abstracts for work reported in a regular paper submitted to the AAAI-96 or another conference, but not for work that has already been published. Abstracts will be accepted or rejected for the student session regardless of the outcomes of related paper submissions.

#### Review Criteria

Each abstract will be reviewed against the following criteria:

- Significance: Does the work address an important problem?
- Originality: Is the problem or approach presented new?
- Clarity: Is the abstract clearly written?

#### Publication

Accepted abstracts will be allocated one (1) page in the conference proceedings. Students will be required to transfer copyright of the abstract to AAAI.

#### Poster Session

Accepted abstracts will be allocated presentation time and space in the Student Poster Display area at the conference. Student authors of accepted abstracts must agree to prepare a poster representing the work described in their abstracts and to be available to discuss their work with visitors during their allocated time in the Student Poster Display area.

#### Student Abstract Submissions & Inquiries

Please send abstracts to:

AAAI-96  
American Association for Artificial Intelligence  
445 Burgess Drive, Menlo Park, CA 94025-3496

Registration and call clarification inquiries (ONLY) may be sent to the internet address: [NCAI@aaai.org](mailto:NCAI@aaai.org).

Please send student program suggestions and inquiries to:

Maja J. Mataric  
Volen Center for Complex Systems  
Computer Science Department  
Brandeis University  
Waltham, MA 02254  
[maja@cs.brandeis.edu](mailto:maja@cs.brandeis.edu)

-----  
For More Information Contact:

American Association for Artificial Intelligence / 445 Burgess Drive / Menlo Park, California 94025-3496 / USA  
Telephone: 415-328-3123 / Fax: 415-321-4457 / Email: [ncai@aaai.org](mailto:ncai@aaai.org) / URL: <http://www.aaai.org>

If you have any comments, suggestions, or additions to this site, please drop us a note.

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#####  
Now, some advance programs and calls for participation.  
SDAIR is a well-known event for many of us. Here is the call for participation to the 1996 event:  
#####  
>From: Debbie Wallace <[wallace@mighty-joe.ISRI.UNLV.EDU](mailto:wallace@mighty-joe.ISRI.UNLV.EDU)>  
>Subject: SDAIR'96 - Call for Participation

SDAIR '96

Call for Participation

Fifth Annual Symposium on  
Document Analysis and Information Retrieval

April 15-17, 1996  
Alexis Park Resort, Las Vegas, Nevada

## SPONSOR

Information Science Research Institute  
University of Nevada, Las Vegas

## SYMPOSIUM CHAIR

Henry S. Baird  
AT&T Bell Laboratories  
[henry.baird@att.com](mailto:henry.baird@att.com)

## PROGRAM CHAIRS

### Document Analysis:

Andreas Dengel  
German Research Center for Artificial Intelligence (DFKI)  
[dengel@dfki.uni-kl.de](mailto:dengel@dfki.uni-kl.de)

### Information Retrieval:

Jan Pedersen  
Xerox Palo Alto Research Center  
[pedersen@parc.xerox.com](mailto:pedersen@parc.xerox.com)

## SYMPOSIUM MANAGER

Debbie Wallace  
University of Nevada, Las Vegas  
Information Science Research Institute  
4505 Maryland Parkway  
Box 454021  
Las Vegas, NV 89154-4021  
(702)895-3338  
(702)895-1183 (fax)  
[sdair@isri.unlv.edu](mailto:sdair@isri.unlv.edu)  
ftp site: [ftp.isri.unlv.edu directory: /pub/SDAIR96](ftp://ftp.isri.unlv.edu/directory:/pub/SDAIR96)

## SCOPE

The symposium will present results of state-of-the-art research and provide ample opportunity for the informal exchange of ideas in the field of automatic extraction of information from images of printed documents. High-quality refereed papers will be presented describing research on many key aspects of document image analysis and information retrieval, both theoretical and applied, with particular emphasis on:

### Document Analysis:

High-Accuracy Transcription  
Postprocessing of OCR Results  
Keyword Search in Textual Images  
Multilingual OCR, Language ID, etc.  
Geometric and Logical Layout Analysis  
Recognition of Forms, Tables and Equations  
Models of Document Image Degradation  
Methods for Performance Evaluation

### Information Retrieval:

Full-Text Retrieval  
Retrieval from OCR'ed Text  
Image and Multimedia Retrieval  
Text Categorization  
Retrieval from Structured Documents  
Language-Specific Influences on Retrieval  
Evaluation of IR Systems  
Text Representation

## PRELIMINARY SCHEDULE

Sunday, April 14, 1996 (evening)  
Welcome Reception

Monday, April 15, 1996

Invited Speakers:  
Dr. H. P. Frei, Union Bank of Switzerland  
Dr. Juergen Schuermann, Daimler Benz Research Center

### Technical Presentations

Tuesday, April 16, 1996

Invited Speakers:  
Dr. Michael Lesk, Bellcore  
(to be announced)

### Technical Presentations

Wednesday, April 17, 1996 (morning)

ISRI Annual Assessment Reports  
Dr. Thomas A. Nartker, University of Nevada, Las Vegas



#####  
Here is some information about the coming ICASS'96 conference:  
#####  
>From: "Monty Hayes" <mhh3@ee.gatech.edu>  
>Subject: ICASSP-96  
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Greetings from the ICASSP-96 Technical Committee,

The 1996 International Conference on Acoustics, Speech, and Signal Processing, better known as ICASSP-96, will be held in Atlanta, Georgia next year. Listed in this mailing you will find information about the technical program, tutorials, and registration information.

HIGHLIGHTS:  
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1) The technical program may be viewed on the WWW at

<http://www.ee.gatech.edu/conferences/icassp96>

2) The early registration deadline is December 15. Registrations received by this date will qualify you for a free second copy of the Proceedings on CD-ROM. To avoid the higher on-site registration fees, payment must be received by March 15, 1996. The fees are:

- If Received
- by 3/15/96 On-Site
- IEEE Members: \$350 \$475
- Non-members: \$450 \$575
- Student IEEE members: \$ 75 \$100
- Student Non-members: \$100 \$125

Registration forms will be available in the Transactions published by the IEEE Signal Processing Society early next year. Forms will also be available on the WWW and by anonymous ftp at

<ftp.eedsp.gatech.edu/pub/icassp96>

3) Since 1996 is an Olympic year for Atlanta, hotel space may be very tight. Therefore, we recommend that you make reservations early at the Marriott Marquis in order to guarantee a room. Please note that there are a LIMITED number of rooms (10% of the room block) that will be available at the government rate to government employees AND to students.

4) If you would like to add your name to our electronic mailing list, please send mail to

[majordomo@ee.gatech.edu](mailto:majordomo@ee.gatech.edu)

with "subscribe spmail" as the body of the message. You may also add someone else to the list by sending a mail to majordomo with the message "subscribe spmail address@some.machine".

More detailed information follows. If you have any other questions or need additional information, feel free to contact me or the appropriate member of our technical committee.

We are looking forward to seeing you at ICASSP-96 and to a successful conference. We thank you for your interest and participation.

With Regards,  
M.Hayes  
General Chair, ICASSP-96

\*\*\*\*\*  
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INFORMATION ON THE TECHNICAL PROGRAM  
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\*\*\*\*\*

The ICASSP-96 technical program begins on Monday May 6 with four tutorials (topics and presenters listed below), and the regular program begins on Tuesday, May 7 and concludes on Friday, May 10. This year, among the approximately 1740 papers that were submitted, 911 were accepted and placed

into 92 sessions. Of these, 52 are poster sessions and 40 are lecture. Included in the lecture sessions are six "Special Sessions,"

1) Signal Processing for Wireless Communications Systems,  
Chairman: G. Wornell (MIT)

2) Education  
Chairman: R. Bamberger (WSU) and B. Evans (UC Berkeley)

3) US DoD Selection of the 2400 bps Standard  
Chairman: J. Tardelli (ARCOM)

4) Sensor Array Datasets  
Chairman: A. Steinhardt (MIT Lincoln Labs),  
J. Krolik (Duke University), and  
R. Vaccaro (University of Rhode Island)

5) Digital Video: Content Processing  
Chairman: N. Jayant (AT&T Bell Labs)

6) Methods and Tools for Rapid Prototyping of DSP Systems  
Chairman: M. Richards (Georgia Tech Research Institute)

Following the regular program on Friday, there will be another day of tutorials on Saturday, May 11. This tutorial day provides a bridge into the technical program of ISCAS-96 which begins on Sunday, May 12, and for those who plan to continue their stay in Atlanta.

To facilitate your early planning to attend one or more of our tutorials, the topics and presenters for each day are listed below. This program was put together by the Tutorials Chairman, Prof. John Hansen, with the help of the Signal Processing Education Committee, which is chaired by Prof. Delores Etter. These tutorials were selected out of a set of over 50 proposals that were submitted, and were carefully screened and reviewed. As a result, we believe this to be an outstanding program with a broad range of important and timely topics. (Tutorial fees are \$150 each, and space is LIMITED).

\*\*\*\*\*  
Tutorials, Monday, May 6, 1996  
\*\*\*\*\*

#### Morning

1) Douglas O'Shaughnessy (INRS-Telecommunications, Canada),

"Voice Dialogue with Computers"

Covers human dialog system/interaction with computers, speech synthesis, recognition, dialog interaction.

2) Lajos Hanzo (University of Southampton, U.K.),

"Bandwidth-efficient Tetherless Multimedia Communications"

Covers mobile fundamentals, multimedia source and channel coding, modulation and transmission fundamentals, advanced transmission and systems aspects.

#### Afternoon

3) Fatos T. Yarman-Vural (Middle East Technical University, Turkey),

"An Overview for Machine Simulation of Human Reading"

Covers automatic character recognition (printed and handwritten), statistical and syntactic techniques, application demo for "Optical character recognition system for ancient Ottoman archives."

4) David L. Neuhoff (Univ. of Michigan),

"Quantization Analysis (Theory of Lossy Data Compression)"

\*\*\*\*\*  
Tutorials, Saturday May 11, 1996  
\*\*\*\*\*

#### Morning

1) Malcolm Slaney, Interval Research Corp., and  
Richard Lyon, Apple Computers,

"Applications of Psychoacoustics to Signal Processing"

Covers auditory, masking, applications to coding, music, recognition.

2) Jerry Mendel, University of Southern California,

"Fuzzy Logic Systems for Signal Processing"

Covers fuzzy logic systems, design methods, neural networks, comparison.

#### Afternoon

3) Sam Stearns, Sandia Labs, and  
Russ Mersereau, Georgia Tech.

"Principles and Techniques of Text, Waveform, and Image Compression"

Covers lossless communication/coding of symbol sequences, lossy  
compression of images, VQ, JPEG, MPEG for video coding.

4) John Ackenhusen, ERIM.

"Design and Implementation of Signal Processing Systems"

Covers real-time concepts, processors, design tools, case studies in  
rapid system proto-typing for signal processing.

#####  
Here is the advance program and registration info for Visual'96. This  
is a shortened version; see their WWW page or my archives  
(<http://www.loria.fr/~tombre/Programs/maillist.html>) for all the  
details.

#####  
>From: zheng@matilda.vut.edu.au (Zheng Zhi Jie)  
>Subject: Visual'96 Registration

First International Conference on Visual Information Systems  
5-6 February 1996  
Melbourne, Victoria, Australia

All information may be viewed on the WWW at:

<http://www.vut.edu.au/~visual96>

Keynote Addresses

=====  
Professor Tosiyasu Kunii, The University of Aizu, Japan  
- Hyperworld Modelling  
Professor Shi-Kuo Chang, University of Pittsburgh, USA  
- Toward Multidimensional Languages

Associated Events (details below)

=====  
Talk by Tosiyasu Kunii on The University of Aizu  
Tutorial by Borko Furht on Interactive TV Systems  
Tutorial by P. Venkat Rangan on Multimedia Systems

Aims & Scope

=====  
With the widespread use of multimedia information, there is a  
pressing requirement to efficiently manage, store, manipulate and  
retrieve images and pictorial data in a wide spectrum of  
applications. As many organisations currently maintain large  
collections of images, the need for flexible visual information  
management is already critical. 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 organisational information  
systems. Such visual components will tend to permeate all  
information systems and in time will not be regarded as a distinct  
element, but will form an essential part of any information  
system, working alongside and in harmony with structured  
information processing components.

The conference will focus attention on the management of visual  
information. Over 50 papers will be presented by authors from  
Australia, Austria, China, Finland, France, Germany, Hong Kong,  
India, Italy, Japan, New Zealand, the Netherlands, Singapore, UK  
and USA, in these areas:

- Architecture of visual information systems
- Data modelling for visual information systems
- Memory organisation and management
- Feature recognition and extraction
- Feature and content indexing
- Picture description and representation languages
- Query model and paradigms for visual information
- Query language for visual information retrieval
- Content-based search and retrieval
- Integration of visual and non-visual information
- Compression and delivery of visual information
- Image processing and manipulation
- Parallel processing in visual information systems
- Specific applications areas of visual information systems

Venue

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Victoria University of Technology, Footscray Campus  
Corner of Ballarat & Geelong Rds, Footscray VIC 3011

Contact Information

=====  
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Audrey Tam, Chair, Organizing Committee  
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A Partial List of Accepted Papers (full list at  
<http://www.vut.edu.au/~visual96/acpapers.html>)

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Conference & Tutorials Registration Form  
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(PostScript version is available from the Web page)

Associated Events

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Tosiyasu Kunii's Talk on The University of Aizu

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To advance knowledge for humanity in the era of information  
superhighways - an establishment of a new open university -

Time: Tuesday 6 February 6pm to 7.30pm

Tutorial 1: Interactive Television Systems (Half-day)

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Time: Wednesday 7 February 9am to 12  
Cost: \$150/\$190 before/after 7 January 1996, Full-time students  
\$60/\$100, Regular Visual '96 Registrants \$100/\$140  
Instructor:  
Prof. Borko Furht, Director of Multimedia Laboratory at Florida  
Atlantic University, Boca Raton, Florida

Tutorial 2: Multimedia Systems (One-day)

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Time: Thursday 8 February 9am to 4.30pm  
Cost: \$350/\$390 before/after 7 January 1996, Full-time students  
\$150/\$190, Regular Visual '96 Registrants \$300/\$340  
Instructor:  
Prof. P. Venkat Rangan, University of California at San Diego,  
California

Conference Venues (Map on WWW)

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Victoria University of Technology, Footscray Campus (corner of  
Ballarat & Geelong Roads): Registration cocktails (Sunday  
evening), presentations, tutorials

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Here is some conference information about ECCV'96

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>From: Rachid Deriche <[Rachid.Deriche@sophia.inria.fr](mailto:Rachid.Deriche@sophia.inria.fr)>  
>Subject: programme

ECCV'96 : Conference Programme

Saturday 13th/Sunday 14th  
14.00-- Workshop on Object Representation in CV

Monday 15th April  
09.00--10.40 Welcome; Structure from Motion (1)  
11.15--12.30 Recognition (1)  
14.00--15.30 Posters:Stereo/Geometry/Texture/Features  
16.00--17.40 Tracking (1)  
18.00--22.00 Reception and concert

Tuesday 16th April  
09.00--10.40 Grouping and Segmentation  
11.15--12.30 Stereo vision  
14.00--15.30 Posters:Recognition and matching  
16.00--17.40 Motion (2)  
19.00--22.00 Programme Committee dinner and Board Meeting (Jesus College)

Wednesday 17th April  
09.00--10.40 Shading and Colour  
11.15--12.30 Image features  
14.00--15.30 Posters: Motion/Medical Imaging  
16.00--17.40 Tracking (2)  
19.00--22.00 Organ recital and Conference Banquet (St John's College)

Thursday April 18th  
09.00--10.40 Applications and Recognition (2)  
11.15--12.30 Optics/Focus/Camera Calibration  
14.00--15.30 Posters: Motion/Medical Imaging  
16.00--17.40 Structure from Motion (3)  
19.00--20.00 Reception at Fitzwilliam Museum for Workshop attendees

Friday April 19th  
09.00--16.00 Workshops  
Computer vision in man-machine interfaces  
Conceptual descriptions from images  
Performance characteristics of vision algorithms

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Well, this mail is more than long enough. So let me stop here, by  
wishing you all a merry Christmas and a very successful and happy new  
year.

Your TC10 chairman,

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