Newsletter 64, February 2001

TC10 News #64
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Message from new TC-10 chair
CFP: GREC 2001, Kingston, Ontario, Canada, September 2001
CFP: ICDAR 2001, Seattle, USA, September 2001
New book: Machine Interpretation of Line Drawing Images
Miscelleneous CFPs

Dear TC10 members and friends,

Welcome to issue #64 of TC10 News.

As a new elected chair of TC-10 at ICPR 2000 in Barcelona, I want to
send my sincere thanks for the suppoted people, especially Atul Chhabra,
ex TC-10 chair for last 4 years on his effort for GREC, homepage and
e-mail newsletter, etc. From the last letter of Atul, I regret that
my preparation of newsletter is quite long. But, I will prepare TC-10
newsletter regularly from now. I am now preparing a migration of TC10 web
and
TC-10 related programs under the help of Atul. The new web server will be
announced when it will be ready using newsletter(You can use Atul's
address temporally).

In this year we have a very important workshop. GREC2001 is now preparing
by Dorothea Blostein and me. The deadline of submission of abstract is March
1st,2001. Please remeber the deadline and circulate it to your colleagues.
I
hope that lots of interesting papers will be presented.
The other important event is ICDAR2001. The deadline of submission is
very near(Feb., 25th, 2001). Thus, I will introduce the CFP, too.

New books on Machine Interpretation of Line Drawing Images(Technical
Drawings, Maps and Diagrams) from Ablameyko and Pridmore is now available.
A brief introduction and the table od contents are introduced.

Miscelleneous list of CFP are followed.

If you have any information or annoucement, please send me an e-mail.
My e-mail adress is ybkwon@ripe.chungang.ac.kr.

                    -Young-Bin.

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subject: call for paper - GREC2001
                    GREC 2001 Call for Papers
        Fourth IAPR International Workshop on Graphics Recognition
            Kingston, Ontario, Canada, September 7-8, 2001
                    http://www.cs.queensu.ca/grec2001

                    Abstracts Due March 1, 2001

Graphics recognition is a branch of document image analysis that focuses
on
the recognition of diagram notations, including engineering drawings,
maps,
mathematical notation, music notation, tables, and chemical structure
diagrams.

There is great demand for automatic conversion between paper and
electronic
forms of documents. Graphics recognition is an essential component of
this
conversion.

  - The GREC workshops have enjoyed strong participation from both
     industry and academia.

   - Researchers in a variety of disciplines are invited to participate.

   - GREC workshops are published in Springer's Lecture Notes in Computer
     Science (previous workshops in Volumes 1072, 1389, 1941).

   - GREC 2001 features an Arc Segmentation Contest, organized by Dov Dori
     and Liu Wenyin:
         http://research.microsoft.com/users/wyliu/arcsegcontest.htm

    - GREC 2001 precedes ICDAR 2001 (Sixth International Conference on
Document
       Analysis and Recognition, Seattle, Sept. 10-13).
       A GREC attendee can travel from Kingston to Seattle on Sept. 9, or
       during the evening of Sept. 8. The travel connection is
       posted at http://www.cs.queensu.ca/grec2001

   - Location: Kingston, Ontario is located at the eastern end of the
      Great Lakes, where Lake Ontario empties into the St. Lawrence River.
      A boat has been chartered for the GREC banquet; we will be going on

a three hour tour of the 1000 Islands.

Further information, including a description of the workshop format, and electronic submission procedures, can be found at
        http://www.cs.queensu.ca/grec2001

We welcome your participation, and invite you to submit an abstract (one to four pages long) by March first.

        Sincerely,
        Dorothea Blostein, Queen's University, Kingston, Canada
        Young-Bin Kwon, Chung-Ang University, Seoul, South Korea

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subject : call for paper - ICDAR2001

        Sixth International Conference on
        Document Analysis and Recognition

        September 10-13, 2001
        Seattle, Washington, USA

        Submission of papers: February 25, 2001(extended)

        Instructions for Authors: Manuscripts submitted for review shall be 12 pt
        double spaced and be in A4 or letter size. All submissions must be in
        Portable Document Format (.pdf), preferably, or PostScript (.ps). They
        must be uploaded to the ICDAR program committee page
        http://icdar01.loria.fr/

Please see the Call for Papers at: http://icdar01.loria.fr/cfp.html

        ICDAR Home Page: http://isl.ee.washington.edu/IAPR/ICDAR01
        ICDAR Program Committee Home Page: http://icdar01.loria.fr/

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subject: New Book Announcement - Machine Interpretation of Line Drawing Images

Dear Young-Bin,

Let me propose to include in next issue of TC10 news information about our book that shoud be interesting for Graphics Recognition community

Best regards
Sergey Ablameyko

New book from Springer

Ablameyko, S., Pridmore T.

Machine Interpretation of Line Drawing Images
(Technical Drawings, Maps and Diagrams)

July 2000. XII, 292 pp.
ISBN 3-540-76207-8

Line drawing interpretation is a challenging area with enormous
practical potential. At present, many companies throughout the world
invest large amounts of money and human resource in
the input of paper drawings into computers. The technology needed to
produce an image of a drawing is widely available, but the transformation
of these images into more useful forms is an active field of research
and development.

Machine Interpretation of Line Drawing Images
- describes the theory and practice underlying the computer
interpretation of line drawing images and
- shows how line drawing interpretation systems can be developed.

The authors show how many of the problems can be tackled and provide
a thorough overview
of the processes underpinning the interpretation of images of line
drawings.

Table of Contents

The Line Drawing Interpretation Problem
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Binary Image Process And The Raster To Vector Transformation
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Subject: CFPs

(1)Document Layout Interpretation and its Applications(DLIA2001)
September 9, 2001 (before ICDAR2001)
Seattle, Washington USA

OVERVIEW:
We would like to build on the successful DLIA 1999
workshop in Bangalore and bring together researchers
in document layout analysis again for an exchange of ideas,
discussions of applications and available tools, and discussions
about future directions. To reflect the evolving scope of the ICDAR
research community, we are expanding the focus of the DLIA workshop.
In addition to traditional, image-based layout analysis, we would like
to encourage the participation of researchers working in the areas of
multimedia document structure analysis, the analysis of the presentation
and layout of common digital document formats (such as PDF, MS Word,
XML, and HTML), and the application of such analysis to document
indexing and retrieval.

TECHNICAL FOCUS:
The workshop will explore document layout interpretation and its
application in document conversion to structured formats (XML, MS Word,
etc.), genre recognition, document databases and retrieval, multimedia
documents, and automatic hypertext creation.
We invite contributions from individuals or groups working in the
following areas:
Layout analysis and page segmentation based either on general layout
principles, document-specific grammars or models, or application
specific constraints. Abstraction principles and models of the document
layout generation and analysis cycle. Table understanding, including
the detection, segmentation and interpretation of tabular data, as well
as extraction and interaction with tables in all media (e.g., printed
documents, ASCII documents, HTML, and other standard document formats).
Methods and systems that take advantage of document layout information
for conversion to structured formats, hypertext creation, document
management, and document databases.
Acquisition of document models and parameter settings using techniques
from statistics or machine learning.
Application of document layout interpretation concepts to broader
classes of documents, such as multimedia, hypertext, or other
structured document formats.
Use of standardized methods for representation, interchange, and
visualization of document layout interpretation results (e.g. XML,
XSL/XSLT, and SVG). Standardization and dissemination of resources
that have already reached maturity and broad application within the
DLIA research community (e.g. databases for training and evaluation,
representation/interchange formats, and software).

WORKSHOP FORMAT:
This will be a one-day workshop for a maximum of about 50 participants.
Each participant will submit an extended abstract. All participants
are expected to contribute to the discussions.
Abstracts will be published before the workshop.
Ideally, these abstracts should be position papers representing a
specific view of document layout interpretation of the researcher
or research group.
Participants will present summaries of their abstracts at the
beginning of the workshop. Summaries should identify current needs,
open problems, and overall direction of their research in layout
interpretation. After the summary presentations we will split up into
several discussion groups. The afternoon session will consist of a
summary of results from the morning session, followed by additional
group discussions, and a plenary session at the end of the day.
After the workshop, the organizing committee will compile a Workshop
Summary, based on the working group notes, and make it available on
the Web. It is hoped that the workshop will stimulate cooperative
follow-on activities that will accelerate the pace of research
in document layout interpretation and its applications.
EXTENDED ABSTRACT SUBMISSION:
Each potential participant or group of participants should submit
an extended abstract which should arrive no later than March 15, 2001.
Abstracts may be submitted in one of the following forms:
PDF or plain ASCII through the Web here
Plain ASCII, by sending E-mail to dlia2001@wins.uva.nl
In paper form (least preferred), by sending mail to:
DLIA 2001
Faculty of Science
Kruislaan 403, 1098 SJ Amsterdam
The Netherlands

Papers should be formatted according to the ICDAR style guidelines,
and should be limited to four printed pages including references.

The first page should include the name, address, telephone, fax,
and email address of the corresponding author and possible co-authors.

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(2)International Workshop on Web Document Analysis
Seattle, Washington, USA
September 8, 2001
Background
With the ever-increasing use of the Web, a growing number of documents
are published and accessed on-line. The emerging issues pose new
challenges for Document Analysis and Content Extraction. The need is
evident for further discussion to identify the role of Document Analysis
in Web document Content Extraction. While there has been active research
on Web Content Extraction using text-based techniques, documents are
in fact 2-dimensional entities, and often include multimedia content.
Hence, techniques that have been developed for image-based documents
could prove valuable in the realm of Web documents, and new methods for
the analysis of multimedia content will be required.
The aim of this workshop is to bring together researchers from both
the Document Analysis and the Web communities, particularly the Content
Extraction community, to share experiences and discuss possible avenues
for future collaboration.
Technical Focus
This workshop is intended as a forum for discussing emerging issues in
document analysis in Web environments. Special attention will be given
to new applications and requirements created by opportunities on the
Internet. We invite contributions in the following areas:
Layout analysis of Web documents and its applications to Content
Extraction, multimodal access and Web mining.
Digital document models: homogeneous representation of structured
documents, hypertext and multimedia components.
Structural recognition and structure transformation of digital
documents.
Structural feature extraction for concept learning, extraction and
retrieval.
Knowledge integration from heterogeneous collections of documents.
Theme extraction and document clustering/visualization.
Access of textual information embedded in Internet images.
Analysis to facilitate spoken language access to general Web
documents.
Document image processing for Internet: data compression, color
analysis, representation and coding for multiresolution or
resolution-independent images.
Collaborative annotation and manipulation of documents on the Web.
Authoring, editing and presentation systems for complex multimedia
documents.
Enterprise applications: intranet and workflow management.
Document reformatting for multimodal mobile access.

Workshop Format
This will be a one-day single-track event for a maximum of 50
participants. Participants are expected to give a short description
of their work (submitted for review in the form of a short paper)
and participate in the discussions.
Sessions of short presentations will be followed by discussion
sessions in small groups. In addition, all participants will join
in a panel discussion session led by experts in both fields.
Discussions will be focused on specific issues identified as key to
promote collaboration between researchers in Document Analysis and
Web content technologies. At the end of the workshop the results of
the discussions will be summarised.

Publications
The accepted papers will be made available before the workshop.
The essence of the discussions, as captured by individual discussion
chairs, will be published on-line, along with the papers, after the
workshop.
Paper Submission
Potential participants should submit a short paper (to arrive no later
than March 30, 2001) describing their work in one of the areas as
detailed above. Papers should identify current/future needs, open
problems and discuss the authors' view of the subject and overall
direction. Papers describing work in progress are also encouraged.
Papers should be submitted using 12pt font, single spacing and should
not exceed 4 printed pages (A4 or letter size) including figures and
references. The first page should also include contact information of
the author(s). Color is encouraged.
Submissions are accepted through the Web (uploading facility to be
provided in due course). Alternatively, e-mail papers to
wda2001@csc.liv.ac.uk
Acceptable formats are PDF, RTF, Postscript and HTML.

I hope to see you at GREC or ICDAR.

Your TC10 chairman.

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(To be updated, but now available)
TC10 WWW URL: http://www.iapr-tc10.or.kr

TC10 member enrollment: http://www.iapr-tc10.or.kr/membership/

TC10 News submissions to: atul@basit.com