

# Newsletter 65, June 2001

TC10 News #65

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-Message from TC-10 chair

Dear TC10 members and friends,

Welcome to issue #65 of TC10 News.

From the last Newsletter of February, 4 months are gone very fastly.

During last 4 months, my server has hacked and we lost the lots of data.

Finally we restore the row data for the Newsletter again. I am really

sorry

about to stop the services of Newsletter for some moment. From now,

I will make a regular service of Newsletter every 1 or 2 months. Someone

who requested unsubscribe membership since lase e-mail may receive

this newsletter. Please send me an e-mail again because this mailing list

is old version.

The homepage migration is partially done. So you may connect to

[www.iapr-tc10.or.kr](http://www.iapr-tc10.or.kr) as your favorite site. The membership database is

not working in this moment will renewed soon. This homepage is similar

structure of Atul's, but we create the BBS(Bulletin Board System), so if you have

any idea and questions, you may write your opinion freely and may discuss with

other members.

In this year we have a 2 big events: GREC2001 and ICDAR2001.

GREC2001(4th workshop) which is hosted by TC-10 will be held at Kingston

(Ontario, Canada), September 7-8, 2001. The homepage is <http://www.cs.queensu.ca/grec2001>.

ICDAR2001(6th conference) which is hosted by TC-10 and TC-11 will be held

at Seattle (Washington, USA), September 10-13, 2001. ICDAR Home Page is <http://isl.ee.washington.edu/IAPR/ICDAR01>.

More detailed information is shown below.

If you have any information or announcement, please send me an e-mail.

My e-mail adress is [ybkwon@ripe.chungang.ac.kr](mailto:ybkwon@ripe.chungang.ac.kr).

-Young-Bin.

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-GREC2001

Venue: Kingston, Ontario, Canada

Date: September 7-8, 2001

homepage: <http://www.cs.queensu.ca/grec2001>

Now paper submission is done and schedule of presentation is announced.

FYI:

Reception and Registration, 7:00-9:00PM, Thursday, September 6

(Bellevue North, Holiday Inn, Kingston Waterfront)

Registration, 8:00-8:50AM, Friday, September 7

(Bellevue South, Holiday Inn, Kingston Waterfront)

All GREC 2001 sessions are held in Bellevue South

Schedule of presentation:

Opening Remarks, 8:50-9:00AM, Friday, September 7

Session 1: Technical Drawings and Forms 9:00-10:30, Friday, September 7

\*Overview Talk (30 minutes) by Harald Kunze

A Contribution to the Reconstruction Process of Paper Based Assembly

Drawings (Paper 112) El-Fathi El-Mejbri, Hans Grabowski, Harald Kunze,

Ralf-Stefan Lossack, Arno Michelis University of Karlsruhe, Germany

\*Short Presentations (6 minutes each)

Interpretation of Low-level CAD Data for Knowledge Extraction in Early

Design Stages (Paper 109) Hans Grabowski, Harald Kunze, Ralf Lossack, Arno

Michelis University of Karlsruhe, Germany

Automatic Title Block Location in Technical Drawings (Paper 128) Laurent

Najman, Olivier Gibot, Mickael Barbey Oce Print Logic Technologies SA,

Creteil, France

Navigation into Technical Documents (Paper 132) Eric Trupin, Jean-Marc

Ogier, Sebastien Adam, Pierre Heroux University of Rouen, France

Knowledge-based Partial Matching: An Efficient Form Classification Method

(Paper 140) Yungcheol Byun, Yeongwoo Choi, Gyeonghwan Kim, Yillbyung Lee

Yonsei University, Sookmyung Women's University, Sogang University, Seoul,

Korea

Robust Frame Extraction and Removal for the Processing of Form Documents

(Paper 148) Daisuke Nishiwaki, Masato Hayashi, Atsushi Sato NEC

Corporation,

Kanagawa, Japan

\*Panel Discussion (30 minutes)

Coffee break, 10:30-11:00

Session 2A: Validation; User Interfaces 11:00-12:00, Friday, September 7

\*Overview Talk (30 minutes) by George Nagy

Issues in Ground-Truthing Graphic Documents (Paper 145) Daniel Lopresti,  
George Nagy Bell Labs, Lucent Technologies; Rensselaer Polytechnic  
Institute, Troy, New York, USA

\*Short Presentations (6 minutes each)

Inputting Composite Graphic Objects by Sketching a Few Constituent Simple  
Shapes (Paper 127) Liu Wenyin, Xiangyu Jin, Wenjie Qian, Zhengxing Sun  
Microsoft Research China, Beijing, P.R.China, Nanjing University, P.R.  
China

Experimental Evaluation of a Trainable Scribble Recognizer for  
Calligraphic

Interfaces (Paper 130) Cesar Pimentel, Manuel da Fonseca, Joaquim Jorge  
IST/UTL, Lisbon, Portugal

User Interfaces for On-line Diagram Recognition (Paper 149) Blostein,  
Chen,

Graham, Hussell, Jugoan, Lank, Rose, Tausky, Thorley, Tuesday, Wu, Zanibbi  
Queen's University, Kingston, Ontario, Canada

\*Panel Discussion (15 minutes)

Session 2B: Demonstrations 12:00-12:30, Friday, September 7

Short (3-5 minute) demonstrations are given during this session.

Interested

parties use lunches and coffee breaks for in-depth demonstrations. This  
tight schedule does not allow extra time for equipment or software  
trouble;

demonstrations that run into delays will be postponed to lunch or coffee  
breaks.

If you are interested in giving a demonstration, send email to

[blostein@cs.queensu.ca](mailto:blostein@cs.queensu.ca). So far, we have:

- Perceptual grouping in map analysis. Brooks, Thompson, Paper 113.
- Recognition of on-line UML diagrams. Lank, Paper 149.
- Recognition of hand-drawn math expressions. Zanibbi, Paper 144, 149.

Lunch, served in Bellevue South. 12:30-2:00

Session 3: Symbol Segmentation and Recognition 2:00-3:30, Friday,  
September 7

\*Overview Talk (30 minutes) by Josep Lladós

Symbol Recognition: Current Advances and Perspectives (Paper 125) Josep Lladós, Ernest Valveny, Gemma Sanchez, Eric Martí Universitat Autònoma de Barcelona, Spain

\*Short Presentations (6 minutes each)

Graphic Symbol Recognition by Spatial Topology Distances (Paper 110)

Hsin-Chan Yang Chan Jung University, Tainan, Taiwan

An Error-Correction Graph Grammar to Recognize Textured Symbols (Paper 119)

Gemma Sanchez, Josep Lladós, Karl Tombre Universitat Autònoma de Barcelona,

Spain; LORIA, Nancy, France

Using Area Voronoi Tessellation to Segment Characters Connected to Graphics

(Paper 120) Yalin Wang, Ihsin Phillips, Robert Haralick University of Washington, Seattle, Washington, USA; CUNY, Flushing, New York, USA

Analytical Approach for Recognition of Arbitrary Primitives (Paper 121)

Sergey Butenkov, Oleg Semery, Alexander Karkishchenko Taganrog State University of Radio Engineering, Russia

Arc Segmentation in Engineering Drawings (Paper 138) Dave Elliman University

of Nottingham, UK

\*Panel Discussion (30 minutes)

Coffee break, 3:30-4:00

Session 4: Perceptual Organization 4:00-5:30, Friday, September 7

\*Overview Talk (30 minutes) by Eric Saund

Perceptual Organization as a Foundation for Graphics Recognition (Paper 134)

Eric Saund, James Mahoney, David Fleet, Dan Larner Xerox Palo Alto Research

Center, Palo Alto, California, USA

\*Short Presentations (6 minutes each)

Exploiting Perceptual Grouping for Map Analysis, Understanding and Generalization: The Case of Road and River Networks (Paper 113) Robert Thomson, Rupert Brooks Carleton University, Ottawa, Canada; Geomatics Canada

Extraction of Contextual Information Existing among Composite Elements of Origami Books (Paper 117) Takeyuki Suzuki, Jien Kato, Toyohide Watanabe Nagoya University, Nagoya, Japan

Finding Perceptually Salient Closed Paths in Sketches and Drawings (Paper 118) Eric Saund Xerox Palo Alto Research Center, California, USA

Recognition of Redlining by Invalidation Lines in Scanned Register

Documents

(Paper 135) Gerd Maderlechner, Peter Suda Siemens AG, Munich, Germany

New Paradigm for Segmentation and Recognition (Paper 143) Sungsoo Yoon,

Gyeonghwan Kim, Yeongwoo Choi, Yillbyung Lee Yonsei University, Sogang

University, Sookmyung Women's University, Seoul, Korea

Panel Discussion (30 minutes)

1000 Islands cruise and banquet, 7:00-10:00PM, Friday, September 7.

Boat departs from a dock next to the conference hotel. Boarding at 6:45PM.

Session 5: Map Recognition 8:00-9:30, Saturday, September 8

\*Overview Talk (30 minutes) by Jean-Marc Ogier

Automatic Topographic Color Map Analysis System (Paper 133) Jean-Marc

Ogier,

Sebastien Adam, Abdelhafid Bessaid, Hassane Bechar University of Rouen,

France; University of Tlemcen, Algeria

\*Short Presentations (6 minutes each)

Text/Graphics Separation in Maps (Paper 105) Ruini Cao, Chew Lim Tan

National University of Singapore, Singapore

Semantic Analysis and Recognition of Raster-Scanned Color Cartographic

Images (Paper 114) Serguei Levachkine, Aurelio Velazquez, Victor

Alexandrov,

Mikhail Kharinov Centre for Computing Research-IPN, Mexico City, Mexico;

The Russian Academy of Sciences, St. Petersburg, Russia

Structure Based Interpretation of Unstructured Vector Maps (Paper 115)

Manuel Weindorf University of Karlsruhe, Germany

A Segmentation Algorithm for Line Drawings (Paper 116) Antonietta Lanza

University of Bari, Bari, Italy

Automated Interpretation of Topographic Maps: Beyond Symbol Recognition

(Paper 146) Donato Malerba, Floriana Esposito, Antonietta Lanza, Francesca

A. Lisi University of Bari, Bari, Italy

\*Panel Discussion (30 minutes)

Coffee break, 9:30-10:00

Session 6: Graphics Recognition Technology 10:00-11:30, Saturday,

September 8

\*Overview Talk (30 minutes) by Joel Gardes

CAATI: A System-Based Dynamic Document Interpretation Device (Paper 139)

Joel Gardes, Jean-Marc Ogier, Sebastien Adam, Remy Mullot University of

Rouen, France; France Telecom

\*Short Presentations (6 minutes each)

Scan-to-XML for Vector Graphics: An Experimental Setup for Intelligent

Browsable Document Generation (Paper 111) B. Lamiroy, L. Najman, R.

Ehrhard,

C. Louis, F. Quelain, N. Rouyer, N. Zeghache LORIA, Nancy, France; Océ

Industries, Creteil, France; Ecole Nationale Supérieure des Mines de

Nancy,

France

Interpreting Sloppy Stick Figures by Graph Rectification and

Constraint-based Matching (Paper 126) James Mahoney, Markus Fromherz Xerox

Palo Alto Research Center, Palo Alto, California, USA

Using a Generic Document Recognition Method for Mathematical Formulae

Recognition (Paper 137) Pascal Garcia and Bertrand Couasnon IRISA/INSA,

Rennes, France

Interpreting Line Drawing Images: A Knowledge Level Perspective (Paper

152)

Tony Pridmore, Ahmed Darwish, Dave Elliman University of Nottingham, UK

Panel Discussion (30 minutes)

Lunch, served in Bellevue South. 11:30-1:00

Session 7: Vectorization and Early Processing 1:00-2:30, Saturday,

September 8

\*Overview Talk (30 minutes) by Eugene Bodansky

Post-processing of Lines Obtained by Raster-to-Vector Conversion (Paper

103)

Eugene Bodansky, Alexander Gribov, Morakot Pilouk Environmental Systems

Research Institute, Redlands, California, USA

\*Short Presentations (6 minutes each)

A Scale and Rotation Parameters Estimator: Application to Technical

Document

Interpretation (Paper 122) Sebastien Adam, Jean-Marc Ogier, Claude Cariou,

Joel Gardes University of Rouen, France; France Telecom, Lannion, France;

LASTI, Lannion, France

Improving the Accuracy of Skeleton-Based Vectorization (Paper 124) Xavier

Hilaire, Karl Tombre LORIA, Nancy, France; FS2i, Versailles, France

Perspective and Geometric Correction for Graphics Recognition (Paper 136)

Gady Agam Illinois Institute of Technology, Chicago, Illinois, USA

An Effective Vector Extraction Method on Architectural Imaging using

Drawing

Characteristics (Paper 147) Young-Bin Kwon, Woo-Seok Jang Chung-Ang

University, Seoul, Korea

Thresholding Images of Line Drawings with Hysteresis (Paper 151) Tony

Pridmore University of Nottingham, UK

\*Panel Discussion (30 minutes)

Coffee break, 2:30-3:00

Session 8: Math Notation, Charts, Music Notation 3:00-4:30, Saturday,

September 8

\*Overview Talk (30 minutes) by Bidyut Chaudhuri

On Automatic Processing of Mathematical Expressions (Paper 101) Utpal

Garain, Bidyut Baran Chaudhuri Indian Statistical Institute, Kolkata,

India

\*Short Presentations (6 minutes each)

Hierarchical Interpretation of Business Charts for Blind Computer Users

using UML (Paper 104) Ingo Redeke University of Bremen, Germany

A Recognition Method of Matrices by Using Variable Block Pattern Elements

Generating Rectangular Area (Paper 108) Toshihiro Kanahori, Masakazu

Suzuki

Kyushu University, Fukuoka, Japan

Music Manuscript Tracing (Paper 131) Kia Ng University of Leeds, UK

Learning-based Scientific Chart Recognition (Paper 142) Yanping Zhou, Chew

Lim Tan National University of Singapore, Singapore

Directions in Recognizing Tabular Structures in Handwritten Mathematics

Notation (Paper 144) Richard Zanibbi, Dorothea Blostein, James Cordy

Queen's

University, Kingston, Canada

\*Panel Discussion (30 minutes)

Arc Segmentation Contest, Liu Wenyin, 4:30-4:45PM

Closing Remarks, 4:45-4:50PM

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-ICDAR2001

Venue: Seattle, Washington, USA

Date: September 10-13, 2001

homepage: <http://isl.ee.washington.edu/IAPR/ICDAR01>.

Now paper submission is done and schedule of presentation is announced.

For the preliminary program please see the attached word file. On-line registration

is now available and registration fee is \$500 (till 10, August) for IAPR member.

Best paper award and ICDAR2005 will be decided.

**schedule**

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I hope to see you at GREC and/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: soon available

TC10 News submissions to: [ybkwon@ripe.chungang.ac.kr](mailto:ybkwon@ripe.chungang.ac.kr)