



International Association for
Pattern Recognition

Technical Committee 10
Graphics Recognition

Report on Activities of IAPR TC10 1997-1998

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<http://graphics.basit.com/iapr-tc10/>

- Areas of Interest
- Recap of the past two years
- Plans for the future

Areas of Interest

- Raster-to-vector techniques
- Recognition of graphical primitives, shapes and symbols
- Analysis and interpretation of engineering drawings, logic diagrams, maps, diagrams, charts, etc.
- Analysis of line drawings, tables, forms etc.
- Graphics-based information retrieval
- Performance evaluation
- Complete systems

TC10 Web Site

<http://graphics.basit.com/iapr-tc10/>

- Information on activities of TC10
- Information on GREC workshops and contests
- Pointers to related conferences
- Archives of TC10 News
- List of commercial products

TC10 Mailing List

- 260 members worldwide
- TC10 news distributed once every two months
- Includes information about upcoming conferences and workshops and other news of interest to members
- The news is archived on the web site

GREC'97, Nancy, France

- Held August 22-23, 1997, at INRIA-Lorraine
- Co-chairs Karl Tombre and Atul Chhabra
- 60 participants from 16 countries
 - France 15, USA 15, Japan 7
 - Academic Institutions 40, Industry 20
- Six sessions, each session included:
 - a survey talk
 - short presentations
 - panel discussion

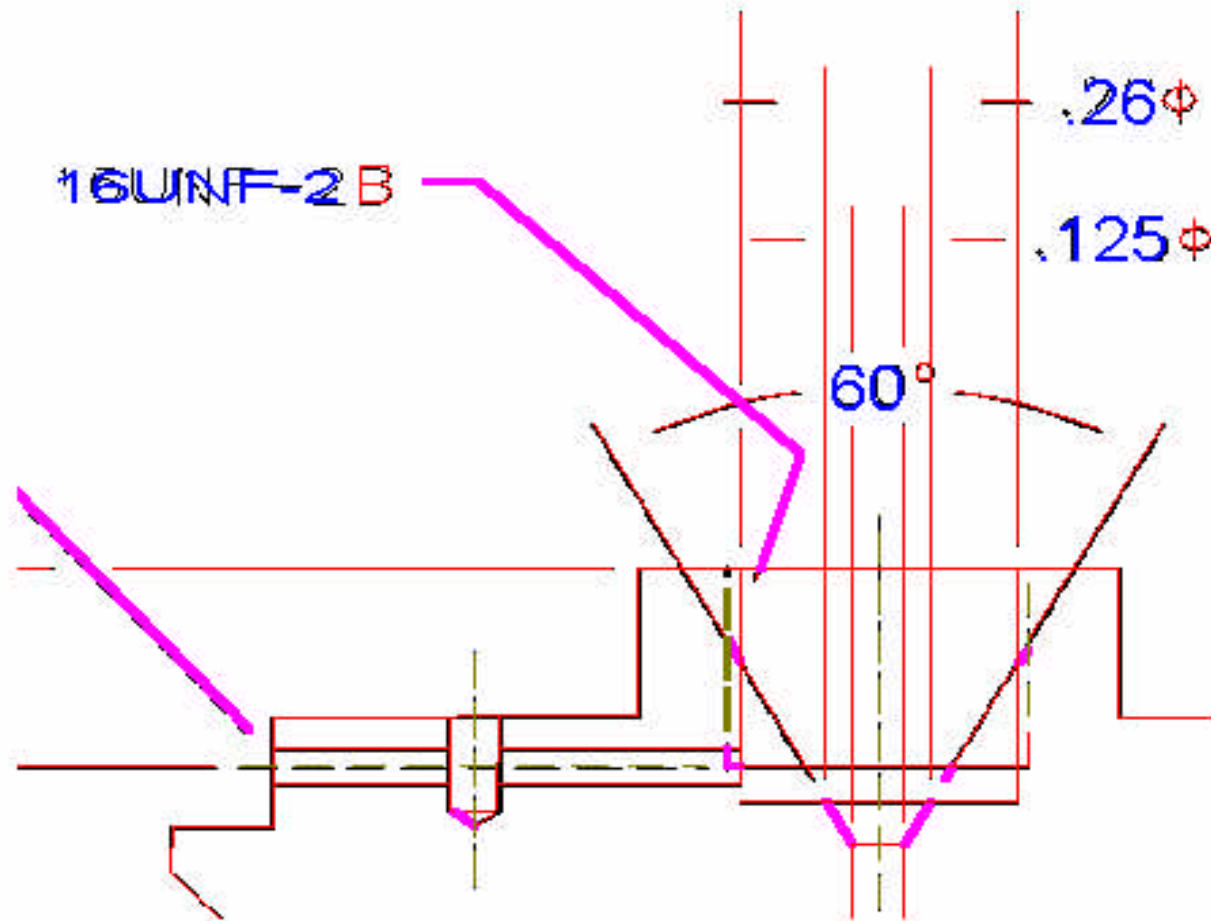
Second International Graphics Recognition Contest

- Co-organizers: Ihsin Phillips and Atul Chhabra
- Contest on Raster to Vector Conversion
- Developed metrics for performance evaluation
- Software to render CAD drawings into raster images in a controlled manner
- Vector file format specification
- Training and test images with ground truth

Second International Graphics Recognition Contest

- Three participants
 - MDUS (Dori and Wenyin)
 - I/Vector from Graphikon, Germany
 - VPStudio from Softelec, Germany
- Performance evaluation protocol and report on contest published in the post-workshop book

Open Problems



The logo for Lecture Notes in Computer Science. It features a red rectangular background with the text "Lecture Notes in" in a smaller font above "Computer Science" in a larger, bold font. To the right of the text is a stylized yellow and orange grid pattern. Below the red rectangle is a solid blue horizontal bar.

Lecture Notes in Computer Science

LNCS

- Post workshop book with refereed and enhanced submissions
- *Graphics recognition--Algorithms and Systems*, Editors: Karl Tombre and Atul Chhabra, volume 1389 of Lecture Notes in Computer Science, Springer-Verlag, April 1998, ISBN: 3-540-64381-8

Social Events at GREC'97



TC10 Co-sponsored Events

- ICDAR'97, August 1997, Ulm, Germany
- Co-sponsored with TC11
- Was held just prior to GREC'97

Future Activities

- GREC'99, September 26-27, Jaipur, India
- Graphics Recognition Contest at GREC'99
- ICDAR'99, September 20-22, Bangalore, India
- Web site overhaul with less text per page and more navigational aids and search tools
- To obtain mailing address of members through the web site

Future Activities

- Evaluation of vectorization methods, algorithms, and implementations using the work done for the contest
- Seeking volunteers to organize future contests in other areas of graphics recognition
 - Symbol recognition
 - 3D models from 2D views (line drawings)

GREC'99, Jaipur, India

- **September 26-27, 1999**
- **Immediately following ICDAR'99**
- **Rambagh Palace Hotel**
 - 100+ rooms
 - Very good conference and banquet facilities
 - Picturesque surroundings
 - Close to the tourist attractions of Jaipur



See you in Jaipur

