International Association for
Pattern Recognition

Technical Committee 10
Graphics Recognition

Activity Report

September 2002 – July 2003

TC10 Aims and Scope

Analysis of graphical information in documents of different formats.

- raster-to-vector techniques.
- recognition of graphical primitives.
- Recognition of graphic symbols in charts, diagrams, and drawings.
- Interpretation of engineering drawings, maps, charts, tables, diagrams, and other graphical documents.
- 3-D models from multiple 2-D views (line drawing).
- performance evaluation in graphics recognition.
- Systems for graphics recognition.
- Graphics-based information retrieval and browsing.
- Graphics multimedia ad web-based documents.
- Graphics-based user interfaces.

TC10 structure and organization

Chairmanship

– TC10 chair: Josep Lladós, Computer Vision Center, Universitat Autònoma de Barcelona, Spain.

– TC10 vice-chair : Dorothea Blostein, Kingston University, Canada.

– Former chairs: R. Kasturi (USA), K. Tombre (France), A. Chhabra (USA), Y.B. Kwon (Korea).

Membership

– 260 members worldwide => This list should be updated.

– To become a member of TC-10, fill out the enrolment form at the TC-10 web site.

– TC-10 members are periodically informed through the members mailing list about graphics recognition activities and news.

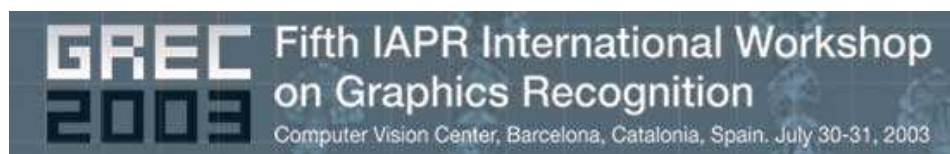## Web site

– A new domain has been reserved **http://www.iapr-tc10.org/**

TC10 information sources

- Web page: **http://www.iapr-tc10.org**
  - Information on activities of TC-10
  - Information on GREC workshops and contests
  - LNCS Publications
  - Pointers to related conferences
  - Archives of TC-10 News
  - List of commercial/public domain products
  - News and announcement

- Newsletter
  - The TC-10 News includes information about upcoming conferences and workshops and other news of interest to members.
  - It is sent to the mailing list every two months approx.

- **7th International Conference on Document Analysis and Recognition**

- **Fifth IAPR International Workshop on Graphics Recognition (GREC2003)**

GREC2003

- Held at the Computer Vision Center (Universitat Autonoma de Barcelona).
- 48 papers were received (43 papers accepted).
- 47 registered participants:
  - Belgium (1), Brasil (1), Canada (1), China (4), France (10), Germany (2), Ireland (3), Japan (2), Korea (3), Mexico (1), Singapore (1), Spain (9), Switzerland (1), United Kingdom (3), USA (5).
- Program with 8 sessions:
  - Platforms, architectures and document knowledge models.
  - Technical documents, maps and charts.
  - Perceptual organization, indexing and graphical signatures.
  - Image Analysis and Low-Level Processing.
  - Symbol Recognition, graphical matching and classification.
  - On-Line Processing and User Interfaces.
  - Demonstrations, Industrial Projects.
  - Performance Evaluation, Contests.
- Post-workshop Springer-LNCS book with selected papers.

IAPR
TC10

GREC2003 contests

- Arc segmentation Contest
  - chair Liu Wenyin.
  - Continuation of the contest held in Kingston.
  - 2 participants.

- Symbol Recognition Contest
  - chairs Ernest Valveny and Philippe Dosch.
  - 5 participants.
  - A benchmark dataset of 7000 images and different evaluation protocols (scaling, rotation, noise, deformation, scalability, etc.)

$\Rightarrow$ *Ground truths in the proceedings CD and in the TC10 web site very soon. People is encouraged to use the database and contribute to improve it.*

GREC workshop in the future

- 10 years of experience of GREC workshops.
- It is time to discuss about the workshop format. A **questionnaire** is available from the TC10 web page. The questions to discuss are:
  - Length of the workshop
  - Scope
  - Relation between ICDAR and GREC.
  - Format (two days one track) => more discussion time is required.
- A committee will be asked to design future GREC workshop format.

GREC2005: it will be held in Hong Kong and organized by Dr. Liu Wenyin

GREC2003 participants

- New web site with updated information.
- Dissemination policy:
  - LNCS post-workshop book.
  - Special issue in a journal (IJDAR, PRL, new Springer hardcover book series, …).
  - Springer new hardcover book series
- Section in the web site devoted to stuff for:
  - Databases and software.
  - Educational material (presentations, reports, reviews, research monographs, etc.)
- Re-definition of GREC workshop format (if necessary)
- Next events:
  - ICDAR05 in Seoul
  - GREC05 in Hong Kong
  - ICDAR07 in ???
- Co-operation with TC11