GREC

12th IAPR International Workshop on Graphics Recognition
Kyoto, 9-10 November, 2017

Welcome

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IAPR TC-10 & GREC Workshops

The IAPR Technical Committee 10 on **G**raphics **REC**ognition

http://iapr-tc10.univ-lr.fr/

Graphics Recognition is an exciting field of pattern recognition. Along with optical character recognition (OCR) and document layout analysis, it forms the broader area of document image analysis and recognition.

IAPR's Technical Committee 10 on Graphics Recognition promotes interaction among researchers working in document image analysis in general, and graphics recognition in particular.

Specificities of Graphics Recognition

- Related to Document Analysis
- Conveys message
- Underlying semiotics and graphical language structure
- Also strongly related to image analysis

Topics of interest

- Analysis and interpretation of graphical documents, such as: engineering drawings, floorplans, mathematical expressions, comics, maps, music scores, patents, diagrams, charts, tables, etc.
- Recognition of graphic elements, such as symbols, logos, stamps, dropcaps, drawings, etc.
- Identification and localization of graphical mark-ups and annotations in written documents
- Raster-to-vector techniques
- Graphics-based information retrieval and indexing
- 3-D models from multiple 2-D views (line drawing)
- Sketch recognition and understanding
- Camera-based graphics recognition
- Graphics recognition in born digital documents and in real scenes
- Analysis of graphics on new digital interfaces
- Performance evaluation in graphics recognition
- *etc.*

The GREC workshop

The Twelfth IAPR International Workshop on Graphics Recognition (GREC 2017) is organized by the **IAPR TC-10** (Technical Committee on Graphics Recognition).

GREC is an excellent opportunity for researchers to **meet colleagues** and to **share new ideas** and knowledge about graphics recognition.
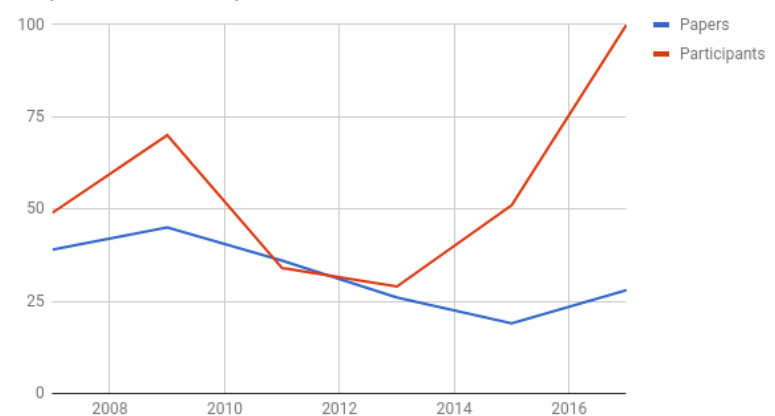
Maintain a very high level of interaction and creative discussions in a "workshop" spirit (not a "mini-conference").

Unique publishing process (LNCS 50% acceptance rate, high impact factor)

Participants

- 2007 (Curitiba, Brazil) 39 papers, 49 participants
- 2009 (La Rochelle, France) 45 papers, 70 participants
- 2011 (Seoul, South Korea) 36 papers, 34 participants
- 2013 (Bethlehem, PA, USA) 26 papers, 29 participants
- 2015 (Nancy, France) 19 papers, 51 participants
- 2017 (Kyoto, Japan) 28 papers,
  ??? participants

Papers and Participants

Sessions

1. Interpretation of engineering drawings, maps, charts, etc.
2. Symbol Recognition and Spotting
3. Optical Music Recognition
4. Interpretation of drawings, music scores, tables, etc.
5. Raster to Vector and drawings
6. Performance Evaluation and Interpretation

Sessions

Dynamic, focused on discussion, exchanges and interactions

- Each session has 2 chairpersons
- Introduction (10 min):
  - Overview of the topic, the main open problems
  - Introduce the papers
- Short presentations (10 min)
  - Presenters use the first slide to present themselves briefly to the audience
  - No question-answers between the presentations
- Panel Discussion (20-30 min)
  - Short specific technical questions
  - Broader discussion (how the work fits in the global framework of the topic)

IAPR Invited Speaker

Prof. Ichiro Fujinaga

Associate Professor

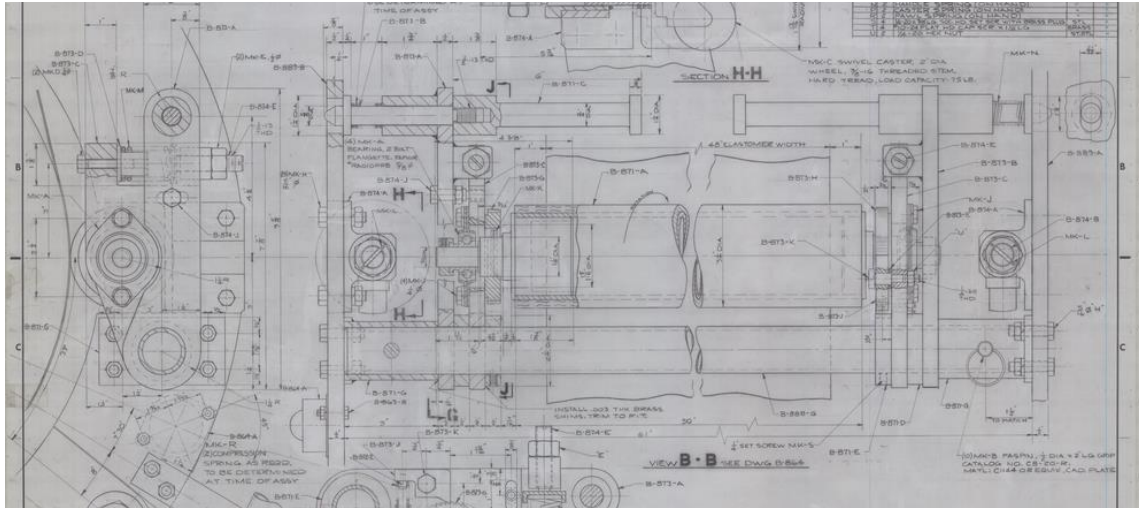Centre for Interdisciplinary Research in Music Media and Technology

McGill University, Montreal, Canada

A Retrospective on Optical Music Recognition Research

Challenge

The Engineering Drawing Challenge II

Discussion Groups

Small-group discussions on topics of special interest to GR researchers

- To foster and engage interaction
- To discuss topics related to GR
- The outcomes will be presented at the conclusion panel (second day)