imageCLEF – ideas for 2005

Henning Müller, Paul Clough
Service of Medical Informatics
Geneva University & Hospitals
Sheffield University

- Comments from participants
- Our goals
- Data sets
- Tasks
- Funding

Comments

- Much support
- Need for training data
- More realistic tasks (medical)

- Challenging data set (medical)
  - French, English, mixed and empty datasets
  - Abbreviations (non standard), spelling errors, incomplete phrases
  - Very varied set of images in JPEG, different resolution and quality

- **2004: Combine** textual and visual **retrieval**
  - Goal was reached as there were several mixed submissions
  - Hope to foster cooperation between visual and textual groups at the event (complementary approaches)
- **2005:** Optimise **textual/visual retrieval**
  - This year's data can be training data
  - Attract more machine learning techniques
  - Query dependent optimisation?

- **2006: region-based querying, real world tasks**

- Getting data for image retrieval evaluation is hard
- Stop the St. Andrews collection (?)
- Getty images, Corbis data sets available
  - Terms and conditions are important
- Web retrieval task, multi-lingual
- IRMA dataset: 10.000 medical images for classification (annotated with four axis code)
- National Library of Medicine (NLM)
- Larger number of medical images together with casimage
  - MIRC (medical image resource centre, RSNA), OHSU

- Web retrieval task on images
- Colour image retrieval task similar to St. Andrews (getty, corbis)
- Medical image retrieval task will be continued
  - Image classification subtask
  - Textual image description
- Interactive imageCLEF?
  - Integrate into iCLEF
  - User interface comparison
  - Query speed

Funding

- **William Hersh, OHSU**

- **Cooperation grant between** semanticMining **(FP6) and** genomics **track at TREC (NSF)**
  - Goal is cooperation and imageCLEF

- **Some restrictions with respect to spending**

- **Master student for 12-18 months, travel**

- **Goals**
  - Survey among imaging system users
  - Gather medical image data sets
  - Help with the relevance assessments

- **But: we need funding for our activities here as well**