K-Space at TRECVID 2006

K-Space is a European Network of Excellence (NoE) in semantic inference for semi-automatic annotation and retrieval of multimedia content.

K-Space is focused on the research and convergence of three themes: content-based multimedia analysis, knowledge extraction and semantic multimedia.
What is TRECVid?

- TRECVid is an annual event that aims to promote progress in content-based retrieval from digital video via open, metrics-based evaluation.
- Facilitates evaluation of video information retrieval systems by providing test data and relevance judgements.
- Evaluated against several hundred hours of broadcast news video in multiple languages.
- 4 main tasks
  - Shot boundary determination
  - Story segmentation
  - High-level feature extraction
  - Search
K-Space Participation in TREC Vid

- Of the 14 partner institutes, 8 participated in the K-Space TREC Vid 2006 Submission
- Tasks
  - High-level feature extraction task
  - 39 LSCOM Concepts (Building, Face, Indoor/Outdoor)
  - Fully Automatic Search Task
    - Search input is the topics alone
  - Manually Assisted Search Task
    - Expert user formulates the query from the search topics
    - No Relevance Feedback
The K-Space TRECVid Query Tool

- Front-end developed to allow an expert user to quickly and effectively create a query from a search topic.
- Search Input:
  - Free text
  - Named entities
    - (Person, Organization etc.)
  - High level features
    - 39 LSCOM Features
  - Image/Video frame
    - Individual features can be chosen
    - Images can be grouped semantically
- Features
  - Integrated video frame grabber, supports all popular formats.
  - Configurable shortcuts to image search engines
    - Google Images, etc. Expert user can expand the query with more relevant images.
  - Interface is fully expandable, and configurable without recompilation
Thank You!