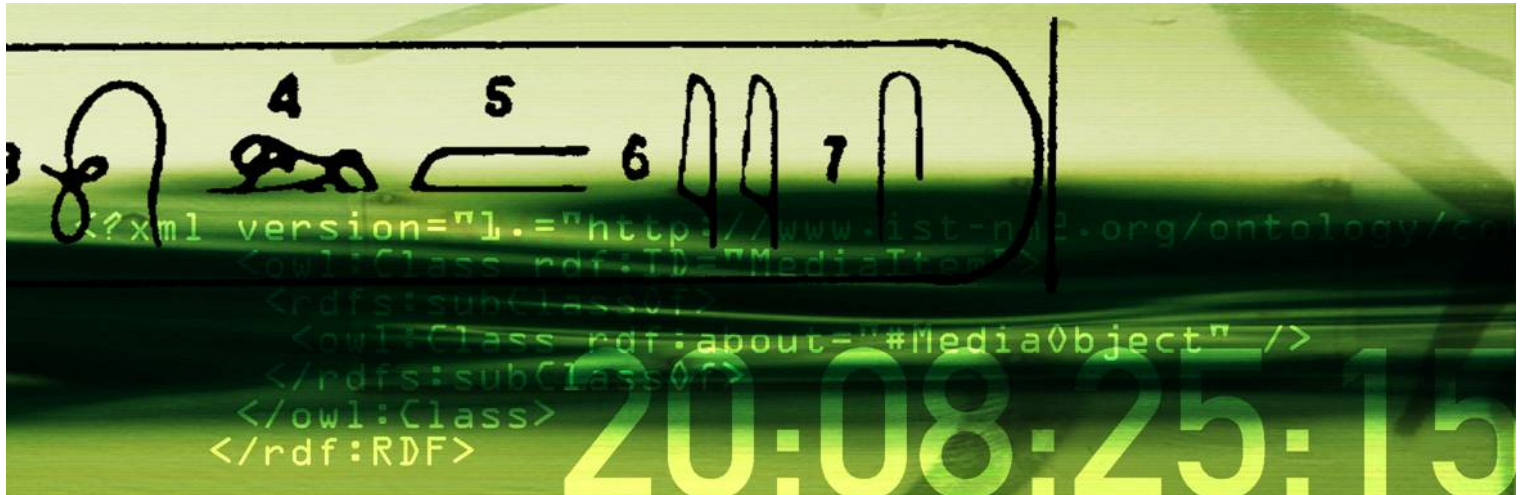


Institute of Information Systems & Information Management



www.joanneum.at

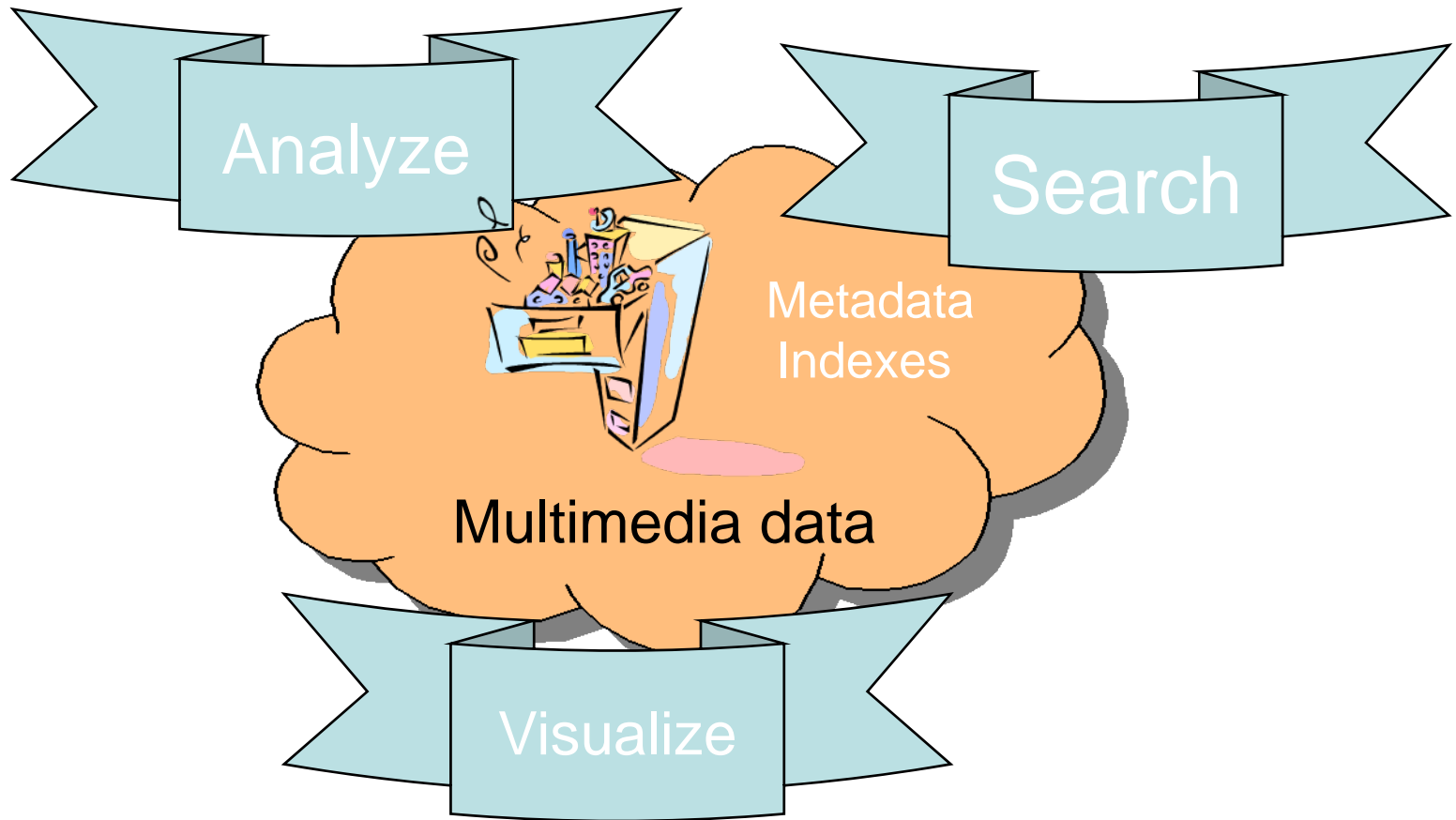
Video Browsing Tool

Herwig Rehatschek

Jožef Stefan Institute - Ljubljana, 20 December 2007

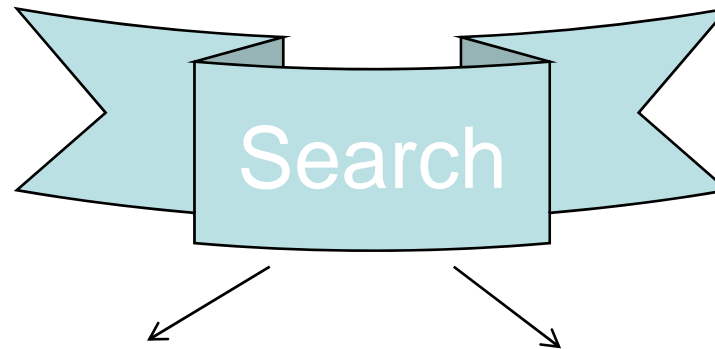
1. Motivation
2. Main functionalities
3. Software Demo

Motivation (1) MM Data Mining



Motivation (2)

Possibilities to Search



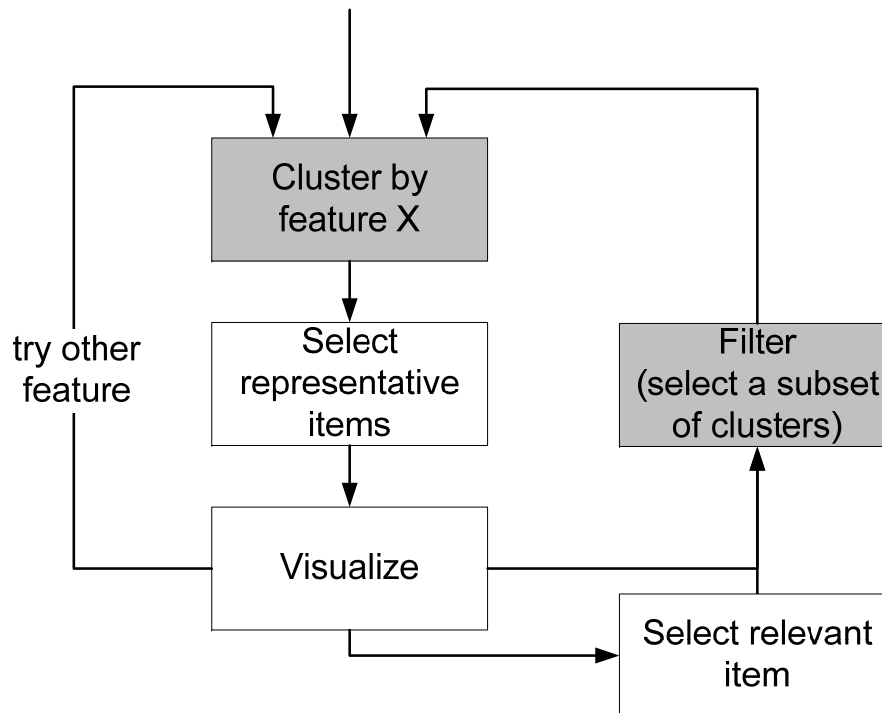
Query based search Browsing

- Query based search
 - either text or content based or combined
 - user knows what he is looking for
- (Visual) Browsing
 - user wants to get an overview of existing material

Search Approach Video Browsing Tool

- Iterative clustering by different features and filtering
- User narrows content set

www.joanneum.at



Implemented Clustering Features

- Camera motion
- Motion activity
- Audio level
- Color similarity
- Face occurrences
- Coming soon: setting detection (via object similarity)

Video Browsing Tool Software Demo

www.joanneum.at

Video Browsing Tool 1.4.2

File Help

Mediatem cluster Time Ascending

History

- CameraMotion_advanced cluster
- MotionActivity cluster
- Face cluster
- Mediatem cluster

Results

	Description	Time	Start	End
	2007120...	0:00:54		
	2007102...	0:00:56		
	2007120...	0:00:57		
	20071116...	0:00:58		

static

pan right slight

static

zoom in slight

IDCluster: 2 -- IDKeyframe: 412 -- TimePoint: 00:04:32 -- ImagePath: ../keyframes/BBC/NEWS070705/VTS_01_2/KEYFRAME/00_04_32_08.jpg



Dr. Herwig Rehatschek

JOANNEUM RESEARCH
Institute of Information Systems &
Information Management
Steyrergasse 17

A-8010 Graz / AUSTRIA

Voice: +43 316 876-1194

Mobile: +43 699 1876-1194

Fax: +43 316 876-1191

E-mail: Herwig.Rehatschek@joanneum.at

Web: <http://www.joanneum.at/iis>

