

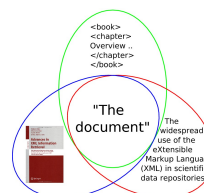
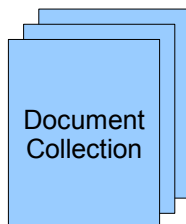
Combining Cognitive and System Oriented Approaches for Designing IR User Interfaces

A new generic framework for designing user interfaces for interactive IR

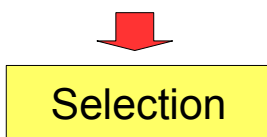
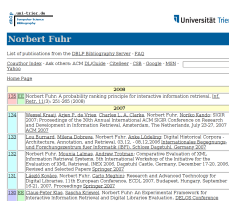
Norbert Fuhr, Matthias Jordan, and Ingo Frommholz

- Four-stage **workflow model of search**
- Extends the **ISS classification** of Belkin and Cool by a new dimension.
- Describes the **aspect** of the documents considered
- Supports the concept of **polyrepresentation** as formulated by Ingwersen.

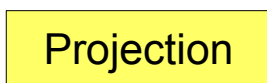
Dimension Values
 Method of Seeking: Scanning, Searching
 Mode of Seeking: Recognition, Specification
 Goal of Seeking: Learning, Selecting
 Resource Used: Information, Meta-information
Aspect Considered: Content, Structure, Layout



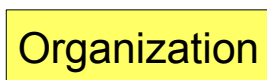
Selection based on meta-information on structure (author), then projection on structure (DBLP)



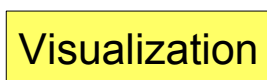
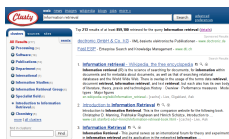
Selection based on information on content (search terms), then projection on content (Google)



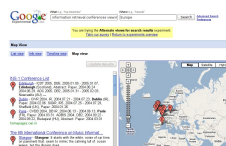
Projection on structure and layout, then visualization including the thumbnail (Amazon)



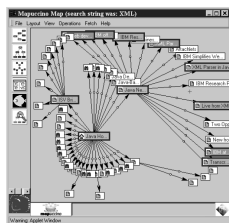
Organization scheme „clustering“ (Clusty)



Organization in 2D-space, then map-based visualization (Google)



Graph organization, then visualization, displaying links between pages (Mapuccio)



Outlook

- Framework for interactive information retrieval interface to support all ISS and workflow steps shown here.
- System with a single, integrated but flexible

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