Information Retrieval

Winter

(in German: Information Retrieval)

Module-ID: FIN-INF-110307

Abbreviation	Credit Points	Semester	Term	Duration	Language	Level
IR	5	Winter	starting at 3.	1 Semester	english	Bachelor

Link:	LSF
Limited accessability:	
Responsibility:	Andreas Nürnberger
Lecturer:	Andreas Nürnberger
Classes:	• Lecture *Information Retrieval* • Exercise *Information Retrieval*
Applicability in curriculum:	- B.Sc. INF: Informatik - Wahlpflicht - B.Sc. CV: Informatik - Wahlpflicht - B.Sc. INGINF: Informatik - Wahlpflicht - B.Sc. WIF: Gestalten und Anwenden - Wahlpflicht - B.Sc. INF (bilingual): Informatik - Wahlpflicht

Intended learning outcomes:
Students ...

- have the ability to create index structures for text and images using Apache SOLR, Apache Lucene and Elastic Search
- perform end-to-end pre-processing of text data
- develop index structures with pre-processing and user search interfaces
- evaluate search engine performance

Content:

- Statistical properties of texts
- Retrieval models and data structures
- Relevance feedback
- Evaluation
- Structuring datasets (clustering, categorisation)
- Structure and algorithms for web search
- Interface design

Workload:
56h contact time + 94h self study

Pre-examination requirements:	Type of examination:	Teaching method / lecture hours per week (SWS):
	Written exam. Requirements for exam participation will be announced in the first week of the course in class and online.	• 2 SWS Lecture • 2 SWS Exercise class

Prerequisites according to examination regulations:	Recommended prerequisites:
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Media:	Literature:
	• Introduction to Information Retrieval, C.D. Manning, P. Raghavan, H. Schütze, Cambridge University Press, 2008. • Information Retrieval: Data Structures and Algorithms, William B. Frakes and Ricardo Baeza-Yates, Prentice-Hall, 1992.

Comments:

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