

t.INRG - Information Retrieval Grundlagen

Person responsible for Martin Braschler, bram

the course:

Credits: 4

Valid for: 2010/2011

Last saved: 01.03.2011 16:40

Learning objectives:

- You learn how to extract and process information from unstructured and structured data

- You get to know existing retrieval systems (such as web search/Google, domain-specific search etc.) and you acquire the competence to perform successful searches
- You get a thorough overview of the area: basics, theory, state of the art, practice and evaluation
- You are capable of selecting the right technology for your searching needs, and to manage an information retrieval project successfully
- You can conduct small evaluations of information retrieval systems in a professional manner
- You have increased your competence by complementing theoretical knowledge with practical work in the lab sessions and by working on a short term project

Course content:

The vast majority of newly produced data is nowadays stored in unstructured form. The course "Information Retrieval Grundlagen" (basics of information retrieval) highlights what information can be extracted from such data.

- Introduction to information retrieval (IR): definitions, scope, data-information-knowledge, the "search paradoxon" and the "retrieval problem"
- Basics: models, probability ranking principle, rules for ranking
- Indexing/matching: text analysis, weighting
- Systems/architecture: search engines, web search (e.g. Google), meta search, data structures
- IR projects supporting knowledge-based business processes
- Evaluation of IR systems: approach, test collections, case study
- Advanced techniques (e.g. categorization, multimedia retrieval, multilingual retrieval)

Previous knowledge:

Basic computer science subjects

Database basics

Teaching method:

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Type of lesson:	Number of lessons per week:	
Lecture	14*2	
Tutorial/Practicum	14*2	
Group teaching		
Block instruction		
Seminar		

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Assessment:

According to the table or as specified in writing by the lecture at the beginning of the semester!

Number	Туре	Weighting
1	End of term exam	80
	Exam during the semester	
1	Further assessments	20

Lang	uage	of	instr	uctior	١:

German

Instruction material:

Set of powerpoint slides

Comments:

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