

t.IE2 - Information Engineering 2

Person responsible for the course: Martin Braschler, bram

Credits: 4

Valid for: 2011/2012

Last saved: 28.03.2012 16:24

Learning objectives:

"It's out there" - how to discover and understand information - stored in internal or external data collections (such as e.g. social media, web etc.)

Goals:

- to understand how implicit information aggregates, and how it is discovered, i.e. made "visible" or explicit
 - to get an overview of the field of "information parsing"
 - to get insight into automatic "understanding" of information ("message understanding")
 - to understand different important basic disciplines of information enrichment
 - to obtain an overview of the basic forms of information visualization
 - to explore the interplay between structured and unstructured data and information
-

Course content:

Discovery and analysis of (implicit) unstructured information

- basic terminology, the "data / information iceberg phenomenon"
 - basics of natural language processing
 - entity detection, topic detection, social media analysis, message understanding
 - clustering, categorization, text mining
 - various forms of information visualization
 - research overview of interplay between structured and unstructured information (NoSQL, reputation monitoring, ...)
-

Previous knowledge:

IRG course necessary

Teaching method:

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

Assessment:

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

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

Language of instruction:

German

Instruction material:

Slides, citations

Comments:

-