Web Search: Techniques, algorithms and Aplications

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- Basic Techniques for Web Search (Eneko Agirre)
 - 8h (10-13/NOV)
- Hands-on with search engine (Arantxa Otegi & Eneko Agirre)
 - 2h (18/NOV)
- NLP Tools & Resources for Web Search (German Rigau)
 - 8h (14,17,19,21/NOV)
- Hands-on with NLP tools (Rodrigo Agerri & German Rigau)
 - 2h (20/NOV)
- Projects (students)
 - Discuss proposals (24/NOV in class)
 Deadline for title and one paragraph summary 24/NOV
 - Discussion by email or office hours (25-27/NOV)
 - Oral presentations of design: 2h (28/NOV)
 - Deadline for full report 19/DEC

- Basic Techniques for Web Search (Eneko Agirre)
 - Information Retrieval (IR)
 - Information Extraction (IE)
 - Question Answering (Q&A)
 - Clustering
 - Classification
 - Summarisation
 - Multilingüism
 - Cross-lingual Information Retrieval (CLIR)
 - Machine Translation (MT)

- NLP Tools (German Rigau)
 - Basic Tools
 - Tokenization
 - Sentence Splitting
 - Language Identifiers
 - Lemmatization, POS tagging
 - Named Entity Recognizers and Categorizers (NERC)
 - Parsing
 - Word Sense Disambiguation (WSD)
 - Semantic Role Labelling (SRL)

- Resources (German Rigau)
 - Words & Works
 - Ontologies:
 - Mikrokosmos
 - Large-scale Knowledge Bases:
 - WordNet & EuroWordNet
 - More large-scale resources
 - ConceptNet, Framenet, VerbNet, PropBank, ...
 - Building Wordnets
 - WordNet extensions:
 - SUMO ontology, eXtended WordNet, Meaning project
 - Reasoning

Evaluation

- Applications of Web Search:
 - Student/teacher topic
 - Short presentation
 - 10 minutes sharp, ~ 10 slides
 - Presentation: 29/11
 - Written report:
 - Format: http://www.acl2013.org/site/call.html
 - Deadline Report: 20/12
 - Two options
 - Report
 - < 2000 words</p>
 - Short paper describing an <u>experimental work</u>
 - < 3000 words</p>

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