

LE10: 24/04/2020

Master in Informatics and Computing Engineering
Database and Web Applications Laboratory
Instance: 2019/2020

Lecture #10 :: 24/04/2020

Goals

By the end of this class, the student should be able to:

- Describe the differences between ranked-search and set-based search.
- Describe the generic architecture of a search engine.
- Describe how an inverted index works.
- Describe how different signals can be used to rank information by relevance.

Content

- Introduction to Information Retrieval
- Search Engines Architecture
- Information Indexing
- Relevance and Ranking

Bibliography

- Christopher D. Manning, Prabhakar Raghavan, and Hinrich Schütze. *Introduction to Information Retrieval*. Cambridge University Press, 2008. Online at <http://nlp.stanford.edu/IR-book>
- Bruce Croft, Donald Metzler, and Trevor Strohman. *Search Engines: Information Retrieval in Practice*. Addison-Wesley, 2010. Online at <http://ciir.cs.umass.edu/irbook/>
- Ricardo Baeza-Yates, and Berthier Ribeiro-Neto. *Modern Information Retrieval (2nd Edition)*. ACM press, 2012.

Materials

- Materials presented in class: [Introduction to Information Retrieval](#)
- Video recording of the class: [Shared Drive da UP \(part 1\)](#)
- Brin, S.; Page, L. *The anatomy of a large-scale hypertextual Web search engine*. Computer Networks and ISDN Systems. 30 (1-7): 107-117. 1998

Summary

- Introduction to Information Retrieval. Search engines architecture. Information crawling, indexing and ranking for search. ¹⁾

— LBAW, 2019/20

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¹⁾

Introdução à Recuperação de Informação. Arquitetura de serviços de pesquisa. Aquisição, indexação e ordenação de informação para pesquisa.

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