- Scholar Search Engine
- 目标:
 - -1. 写一个Web爬虫,爬取文献网站的网页(及PDF 文件);
 - 2. 解析网页内容,对内容进行结构化,并存储到文件中;
 - 3. 解析PDF论文内容;
 - 4. 为2和3得到的内容建立索引;
 - 5. 通过命令行进行内容检索,并展示内容列表
 - 可通过作者、标题、摘要、会议来检索论文
 - 可检索论文图表*

• 如: ACL网站https://www.aclweb.org/anthology/, 其中某个会议的某一年,至少100篇论文

ACL Events

Venue	Present – 2010												2009 – 2000										1999 – 1990									1989 and older											
ACL	19	18	17	1	6 1	15	14	13	12	11	10	09	08	07	06	05	04	03	3 02	2 0	1 00	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85 8	34 8	33 8	2 8	1 80	79		
ANLP																					00)		97			94		92				88				8	33					
CL	19	18	17	1	6 1	15	14	13	12	11	10	09	08	07	06	05	04	03	3 02	0	1 00	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85 8	84 8	33 8	2 8	1 80		78	77
CoNLL	19	18	17	1	6 1	15	14	13	12	11	10	09	08	07	06	05	04	03	3 02	2 0	1 00	99	98	97																			
EACL			17	7			14		12			09)		06			03	3			99	9	97		95		93		91		89		87		85	8	33					
EMNLP	19	18	17	1	6 1	15	14	13	12	11	10	09	08	07	06	05	04	03	3 02	2 0	1 00	99	98	97	96																		
NAACL	19	18		1	6 1	15		13	12		10	09)	07	06		04	03	3	0	1 00)																					
SEMEVAL	19	18	17	1	6 1	15	14	13	12		10			07			04			0	1		98	3																			
TACL	19	18	17	1	6 1	15	14	13																																			
WS	19	18	17	1	6 1	15	14	13	12	11	10	09	08	07	06	05	04	03	3 02	0	1 00	99	98	97	96	95	94	93	92	91	90	89	88		86	8	34		8	1	79		77
SIGs					Αſ	NN	BI	ОМ	ED	DAT	ID	IAL	EDU	I FS	M I	GEN	ΙΙΗ	AN	HUI	M	LEX	ME	DIA	МС	LIN	/ORI	РНО	NIN	1 TN	NLL	PAR	SE	REP	SEN	1 S	EMIT	IC	SLAV	SL	PAT	UR	WAC	

Non-ACL Events

Venue			Pi	rese	0			2009 – 2000										1999 – 1990								1989 and older										
ALTA	18	17	16	15	14	13	12	11	10	09	08	07	06	05	04	03																				
COLING	18		16		14		12		10		08		06		04		02		00	98	96	94		92		90		88	86	82	80		73	69	67	65
HLT													06	05	04	03		01				94	93	92	91	90	89		86							
IJCNLP		17		15		13		11		09	08			05																						
JEP/TALN/RECITAL					14	13	12																													
LREC	18		16		14		12		10		08		06		04		02		00																	
MUC																				98		95	93	92	91											

Annual Meeting of the Association for Computational Linguistics (2019)

Contents Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics: Student Research Workshop Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics: System Demonstrations Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics: Tutorial Abstracts 10 papers Proceedings of the Fourth Social Media Mining for Health Applications (#SMM4H) Workshop & Shared Task 26 papers Proceedings of the First International Workshop on Designing Meaning Representations Proceedings of the Second Workshop on Storytelling 15 papers Proceedings of the Third Workshop on Abusive Language Online 21 papers Proceedings of the 2019 Workshop on Widening NLP 57 papers Proceedings of the 7th Workshop on Balto-Slavic Natural Language Processing Proceedings of the First Workshop on Gender Bias in Natural Language Processing 25 papers Proceedings of the Workshop on Deep Learning and Formal Languages: Building Bridges 6 papers Proceedings of the 13th Linguistic Annotation Workshop 29 papers Proceedings of the First Workshop on NLP for Conversational AI 17 papers Proceedings of the 16th Workshop on Computational Research in Phonetics, Phonology, and Morphology (27 papers) Proceedings of the 4th Workshop on Representation Learning for NLP (RepL4NLP-2019) Proceedings of the Fourteenth Workshop on Innovative Use of NLP for Building Educational Applications Proceedings of the 6th Workshop on Argument Mining 21 papers Proceedings of the Fourth Arabic Natural Language Processing Workshop Proceedings of the 1st International Workshop on Computational Approaches to Historical Language Change 35 papers

Proceedings of the 2019 ACL Workshop BlackboxNLP: Analyzing and Interpreting Neural Networks for NLP
 29 papers

↑up pdf (full)

Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics

bib (full)

pdf bib

Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics

Anna Korhonen | David Traum | Lluís Màrquez

One Time of Interaction May Not Be Enough: Go Deep with an Interaction-over-Interaction Network for Response Selection in Dialogues

Chongyang Tao | Wei Wu | Can Xu | Wenpeng Hu | Dongyan Zhao | Rui Yan

bib abs Incremental Transformer with Deliberation Decoder for Document Grounded Conversations

Zekang Li | Cheng Niu | Fandong Meng | Yang Feng | Qian Li | Jie Zhou

bib abs Improving Multi-turn Dialogue Modelling with Utterance ReWriter

Hui Su | Xiaoyu Shen | Rongzhi Zhang | Fei Sun | Pengwei Hu | Cheng Niu | Jie Zhou



One Time of Interaction May Not Be Enough: Go Deep with an Interactionover-Interaction Network for Response Selection in Dialogues

Chongyang Tao, Wei Wu, Can Xu, Wenpeng Hu, Dongyan Zhao, Rui Yan

Abstract

Currently, researchers have paid great attention to retrieval-based dialogues in open-domain. In particular, people study the problem by investigating context-response matching for multi-turn response selection based on publicly recognized benchmark data sets. State-of-the-art methods require a response to interact with each utterance in a context from the beginning, but the interaction is performed in a shallow way. In this work, we let utterance-response interaction go deep by proposing an interaction-over-interaction network (IoI). The model performs matching by stacking multiple interaction blocks in which residual information from one time of interaction initiates the interaction process again. Thus, matching information within an utterance-response pair is extracted from the interaction of the pair in an iterative fashion, and the information flows along the chain of the blocks via representations. Evaluation results on three benchmark data sets indicate that IoI can significantly outperform state-of-the-art methods in terms of various matching metrics. Through further analysis, we also unveil how the depth of interaction affects the performance of IoI.

☑ PDF **BibTeX** Search Search

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- 关键技术:
 - -爬虫
 - -信息抽取
 - 索引建立
 - 查询

Tips:

• 1. 如何在Eclipse中引入jar包

Tips

- 2. JAVA爬虫
 - crawler4j
 - https://github.com/yasserg/crawler4i

crawler4j



crawler4j is an open source web crawler for Java which provides a simple interface for crawling the Web. Using it, you can setup a multi-threaded web crawler in few minutes.

- **JSOUP**
 - https://blog.csdn.net/zbx931197485/article/details/78582407
 - jsoup 是一款 Java 的HTML 解析器,可直接解析某个URL地址、HTML文本内容。它提供了一套非常省力的API,可通过DOM,CSS以及类似于jQuery的操作方法来取出和 可以看作是java版的jQuery。

从一个URL,文件或字符串中解析HTML; 使用DOM或CSS选择器来查找、取出数据; 可操作HTML元素、属性、文本;

jsoup是基于MIT协议发布的,可放心使用于商业项目。官方网站: http://jsoup.org/

- 基于jsoup: Java HTML Parser来抽取信息 (如标题等,相同的网站同一个模板),利用正则表达式来建立模板
 - https://jsoup.org/

```
File input = new File("/tmp/input.html");
Document doc = Jsoup.parse(input, "UTF-8", "http://example.com/");
Elements links = doc.select("a[href]"); // a with href
Elements pngs = doc.select("img[src$=.png]");
  // img with src ending .png
Element masthead = doc.select("div.masthead").first();
 // div with class=masthead
Elements resultLinks = doc.select("h3.r > a"); // direct a after h3
```

Tips:

- 3. 解析PDF
- APACHE PDFBox

- Tips
- 4. 利用Lucene对文本进行索引,并进行检索

Apache LuceneTM is a high-performance, full-featured text search engine library written entirely in Java. It is a technology suitable for nearly any application that requires full-text search, especially cross-platform.

http://lucene.apache.org/core/

- 4. 利用Lucene对文本进行索引,并进行检索(输入检索词, 查询得到相关的问题(或课程)列表,并显示详细信息。
 - 建索引和检索的简例

- 作业包括: java文件+文档+数据
- 作业打包上传到ftp homework/homework4 下
- 文件: 学号_姓名_homework4.rar

- 代码要求:
 - 遵守编程规范,如命名、注释等规范
 - 遵守面向对象的设计原则
 - 考虑异常处理等应用

- 文档要求:
 - 按附件格式样例,至少包括:引用、总体设计、 详细设计、测试与运行、总结
 - -包括:数据格式说明