☐ Liquid-Legal-Institute / Legal-Text-Analytics

A list of selected resources, methods, and tools dedicated to Legal Text Analytics.

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View code

README.md

Legal Text Analytics



A list of selected resources, methods, and tools dedicated to Legal Text Analytics.



Please read the contribution guidelines before contributing. Please add a resource by raising a pull request. We also seek for discussion and proposal of new ideas (including additional content sections) as issues.

Contents

- Selected Use Cases
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- Datasets and Data

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Selected Use Cases

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- Optical Character Recognition (find more information here)
- Legal Document Pre-processing (find more information here)
- Clause Segment at ion and Sentence Boundary Detection
- Information Extraction and Named Entity Recognition (find more information here)
- Legal Norm Classification
- Machine Translation
- Document Comparison and Semantic Matching
- Text Summarization
- Argument Mining
- Question Answering
- Legal Case Outcome Prediction
- Reference and Coreference Extraction
- Document Assembling and Generation
- Voice Transcript ion
- Anomaly Detection
- Dat a Anonymization

Methods

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- NLP Overview
- NLP Progress
- Text Visualizations
- Optical Character Recognition
- Rule-based methods for NLP, Apache Ruta, Jape Grammar
- Statistical NLP
- Machine Learning Frameworks
- Neural networks and deep learning for NLP Tutorial

Libraries

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- Spacy Industrial-Strength Natural Language Processing
- Scikit machine learning in python
- NLTK Natural Language Toolkit

- Apache UIMA
- Gate General Architecture for Text Engineering
- Transformers and re-trained embedding models including LegalBERT
- German Bert Model: Deepset Al
- Flair SOTA NLP (incl. biomedical and legal data)
- Blackstone Legal Named Entity Recognition and Text Categorizer
- Legal Reference Detection, Legal Reference Detection II
- Haystack Transformers at scale for question answering & neural search

Datasets and Data

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- NLP Datasets
- OpenLegalData
- Legal Entity Recognition
- Legal Text Summarization
- Legal Text Translation
- Legal Document Classification
- Legal Sentence Classification (German)
- 100k German Court Decisions
- Legal Paper Datasets
- Awesome Legal Data
- Germany: Gesetze im Internet, Rechtsprechung im Internet, Verwaltungsvorschriften im Internet, Annotated German Court Decisions (Judgment style), German Federal Courts Dataset
- Switzerland: Swiss Legislation Corpus French and German
- German NLP Ressources: Awesome German NLP
- ECtHR: Judicial Decisions of the European Court of Human Rights
- EU: European Union Law (eurlex R Package), Digital Corpus of the European Parliament (DCEP)
- Canada: Federal Laws and Regulations (ftp://205.193.86.89/)
- UK: UK Law Reports & Case Law Search
- USA: Caselaw Access Project
- USA: Supreme Court Database
- Israel: The Israeli Supreme Court Database
- United Nations: United Nations General Debate Corpus, United Nations Parallel Corpus
- International Law: Text of Trade Agreements (ToTA), Electronic Database on Investment Treaties (EDIT)
- Meta Search: Google Dataset Search
- Overview of Political Science Datasets: PolData

Annotation and Data Schemes

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Annotation guidelines for Legal Entity Recognition (Germany)

• Semantic Types of Legal Norms

Annotation Tools

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- Awesome dat a annot at ion
- Prodigy
- Doccano
- Brat

Research Groups and Labs

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- Stanford University CodeX: The Stanford Center for Legal Informatics
- Technical University of Munich
- Bucerius Center on the Legal Profession
- Suffolk Law School Legal Innovation & Technology (LIT) Lab
- University of Ottawa Legal Technology Lab
- · University of Vienny Department of Innovation and Digitalisation in Law
- University of Amsterdam Leibniz Center for Law
- University of Helsinki LegalTech Research Lab
- Hofstra University Law, Logic & Technology Research Laboratory
- Computational Legal Studies

Tutorials

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- Monkey Learn Text Analysis
- Using NLP to understand laws
- Document Representation for Legal Texts
- Data Science for Lawyers Learning Resources
- Coding for Lawyers (discontinued)
- Custom NLP Approaches to Data Anonymization
- Information Extraction in legal documents

Credits

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Releases

Contributors 4



bwalt I Bernhard Walt I



pdufter Philipp Dufter



bnczk Georg Bonczek

