Natural Legal Language Processing Workshop 2022

Proceedings of the Workshop

December 8, 2022
The NLLP organizers gratefully acknowledge the support from the following sponsors.

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Introduction

Welcome to the fourth edition of the NLLP (Natural Legal Language Processing) Workshop, co-located with the 2022 Conference on Empirical Methods in Natural Language Processing. Different industrial sectors have embraced natural language processing (NLP) technologies, which have altered services and products in healthcare, finance, education among others. The legal domain provides enormous potential for generating interesting research problems. Electronic tools are increasingly used for all types of legal tasks and that use is predicted to grow sharply. By its very nature, the practice of law necessarily involves the analysis and interpretation of language. The potential for NLP applications to provide benefit to practitioners of law and consumers of legal services around the world is enormous. We organized this workshop to bring together researchers and practitioners from around the world who develop NLP techniques for legal data. This is an exciting opportunity to expand the boundaries of our field by identifying new problems and exploring new data as it interacts with the full inventory of NLP and machine learning approaches. In this spirit, the Organizing and Program Committee was assembled to include researchers from both academia and industry, from NLP and legal backgrounds.

We were interested in the following types of papers: (1) applications of NLP methods to legal tasks; (2) experimental results using and adapting NLP methods in legal documents; (3) descriptions of new legal tasks for NLP; (4) creation of curated and/or annotated resources; (5) descriptions of systems which use NLP technologies for legal text; (6) industrial research in this area and (7) interdisciplinary position papers.

We again received a record number of submissions. Out of 56 submissions, we accepted 33 papers for an overall acceptance rate of 58.9% percent. Out of the 33 accepted papers, 25 were long and 8 are short. These also include 3 original papers submitted as non-archival, in order to accommodate publication of the work at a later date in a conference or journal. All papers were reviewed by at least 3 members of the Program Committee. In addition, we also offered a venue for presentation for 6 papers accepted to the Findings of EMNLP 2022 on the above topics. All papers were invited to have an oral presentation and in-person attendees are also invited to join a poster session over lunch.

The papers cover a wide range of topics including new data sets for legal NLP, demos, legal perspectives on NLP topics and data rights, methods for dealing with legal documents including processing of long documents, domain adaptation, privacy-aware models and active learning as well as applications of NLP tasks to legal documents including retrieval, information extraction, simplification, extractive and abstractive summarization, generation, named entity recognition, segmentation, document similarity, stance detection and argument reasoning.

We thank our invited speaker Professor Michael A. Livermore from the University of Virginia School of Law for accepting our invitation. In the tradition of past NLLP workshops, the invited speaker is a legal scholar with an interest in empirical methods for legal analysis including NLP methods. For this edition, we are also hosting a panel From NLLP to legal NLP: The Future of the Field.

We thank everyone who expressed interest in the workshop, all authors of submitted papers, members of the Program Committee who did an excellent job at reviewing papers given a short turnaround time, everyone attending the workshop, the EMNLP 2022 conference for hosting us and the workshop and publication chairs for their support. We thank our sponsors – LBox, Bloomberg and the European Research Council Starting Grant project HUMANads – for their contributions.

The NLLP Workshop organizers.

http://nllpw.org/workshop
Organizing Committee

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Keynote Talk: Finding the Law

Mike Livermore
University of Virginia School of Law

Abstract: This presentation will examine challenges in finding the law, for both legal practitioners and scholars engaged in the computational analysis of law. For the practitioner, the challenge is one of search, a process that can be modeled and studied. Although undertheorized, law search has substantial jurisprudential and practical consequences that are only beginning to be explored. For the computational scholar, challenges of selection and data bias are pervasive, and credible scholarship must ground descriptive and causal analyses in the actual processes that generate the data available for study.

Bio: Michael A. Livermore is a Professor of Law at the University of Virginia. He is one of the early scholars involved in a new research paradigm in legal scholarship that uses computational text analysis tools to study the law and legal institutions. Livermore is the author of dozens of academic works, which have appeared in top law journals as well as peer-reviewed legal, scientific, and social science journals. With Daniel N. Rockmore, he edited Law as Data: Computation, Text, and the Future of Legal Analysis (Santa Fe Institute Press, 2019). Livermore hosts the Online Workshop on the Computational Analysis of Law, a global forum for scholars to present cutting-edge research in this area. Livermore is also a leading expert on the use of cost-benefit analysis to evaluate regulation. Prior to joining the faculty, Livermore was the founding executive director of the Institute for Policy Integrity at New York University School of Law, a think tank dedicated to improving the quality of government decision-making. He is a public member of the Administrative Conference of the United States.
Keynote Talk: From NLLP to legal NLP - The Future of the Field
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Thursday, December 8, 2022

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Extractive Summarization of Legal Decisions using Multi-task Learning and Maximal Marginal Relevance
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Towards Cross-Domain Transferability of Text Generation Models for Legal Text
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Parameter-Efficient Legal Domain Adaptation
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Zero Shot Transfer of Legal Judgement Prediction as Article-aware Entailment for the European Court of Human Rights
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Revisiting Transformer-based Models for Long Document Classification
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Validity Assessment of Legal Will Statements as Natural Language Inference
Mihai Surdeanu, Derek Bambauer, Clayton Morrison, Jacob Israelsen and Alice Kwak

10:40 - 11:00 Break

11:00 - 12:00 Finding the Law - Michael A. Livermore (University of Virginia School of Law)

12:00 - 12:40 Session 2

Data-efficient end-to-end Information Extraction for Statistical Legal Analysis
Wonseok Hwang, Saehee Eom, Hanuhl Lee, Hai Jin Park and Minjoon Seo

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12:40 - 14:00 Lunch and In-Person Poster Session

14:00 - 15:30 Session 3

On What it Means to Pay Your Fair Share: Towards Automatically Mapping Different Conceptions of Tax Justice in Legal Research Literature
Reto Gubelmann, Peter Hongler, Elina Margadant and Siegfried Handschuh
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Do Charge Prediction Models Learn Legal Theory?
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15:30 - 16:00  Break

16:00 - 17:30  Session 4

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Can AMR Assist Legal and Logical Reasoning?
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LawngNLI: A Long-Premise Benchmark for In-Domain Generalization from Short to Long Contexts and for Implication-Based Retrieval
Dan Roth and William Bruno

Legal Prompting: Teaching a Language Model to Think Like a Lawyer
Fangyi Yú, Lee Quartey and Frank Schilder
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17:30 - 18:30  From NLLP to Legal NLP - The Future of the Field (Panel) & Best Presentation Award