

# Proceedings of the Second Workshop on Automated Semantic Analysis of Information in Legal Texts

ASAIL 2017

## Preface

The Second Workshop on Automated Semantic Analysis of Information in Legal Texts (ASAIL 2017) was held on June 16, 2017, at King's College London, co-located with the 16th International Conference on Artificial Intelligence and Law (ICAIL 2017). The purpose of the workshop was to provide a dedicated venue for legal NLP related work for which there had been an increasing number of main ICAIL conference submissions. This proceedings volume contains all papers which were submitted for publication after the event. The final program was as follows:

- **Session 1: Rule Parsing, Text Classification, Segmentation**
  - Deepali Kholkar, Sagar Sunkle and Vinay Kulkarni, *Semi-automated creation of regulation rule bases using generic template-driven rule extraction*
  - Karl Branting, *Automating Judicial Document Analysis*
  - Jaromir Savelka and Kevin D. Ashley, *Using Conditional Random Fields to Detect Different Functional Types of Content in Decisions of United States Courts with Example Application to Sentence Boundary Detection* [oral presentation only]
- **Session 2: Neural Models and Corpora**
  - Son Nguyen Truong, Nguyen Le Minh, Ken Satoh, Tojo Satoshi and Akira Shimazu, *Single and multiple layer BI-LSTM-CRF for recognizing requisite and effectuation parts in legal texts* [oral presentation only]
  - Kolawole John Adebayo, Luigi Di Caro and Guido Boella, *Solving Bar Exams with Deep Neural Networks* [presentation cancelled]
  - Tommaso Agnoloni, Lorenzo Bacci and Marc van Opijnen, *BO-ECLI Parser Engine: the Extensible European Solution for the Automatic Extraction of Legal Links*
  - Octavia-Maria Sulea, Marcos Zampieri, Mihaela Vela, Josef van Genabith and Liviu P. Dinu, *From Robo-Judge to Robo-Lawyer: Exploring the Use of Text Classification in the Legal Domain*
- **Session 3 - Word Embeddings, Topic Models**
  - Jörg Landthaler, Bernhard Walzl, Daniel Braun, Dominik Huth, Florian Matthes, Christoph Stocker and Thomas Geiger, *Improving Thesauri Using Word Embeddings and a Novel Intersection Method*
  - James O'Neill, Cecile Robin, Paul Buitelaar and Leona O'Brien, *An Analysis of Topic Modelling for Legislative Texts*
- **Session 4 - Semantics and Default Logic**
  - Vern Walker, Ashtyn Hemendinger, Nneka Okpara and Tauseef Ahmed, *Semantic Types for Decomposing Evidence Assessment in Decisions on Veterans' Disability Claims for PTSD*
  - Marcos Pertierra, Sarah Lawsky, Erik Hemberg and Una-May O'Reilly, *Towards Formalizing Statute Law as Default Logic through Automatic Semantic Parsing*
- **Session 5 - Complexity and Corpora**
  - Elliott Ash, Massimo Morelli and Matia Vannoni, *The Institutional and Political Determinants of Legislative Complexity: a Linguistic Approach* [oral presentation only]

- Kripa Rajshekhar, Wlodek Zadrozny and Sri Sneha Varsha Garapati, *Analytics of Patent Case Rulings: Empirical Evaluation of Models for Legal Relevance* [remote presentation only]
- Arjit Srivastava and Navjyoti Singh, *A dataset for Indian Legal Judgments: ICJ* [remote presentation only]

The workshop was a success and received a higher number of submissions and had greater attendance than the first workshop at ICAIL 2015. A total of 14 papers were submitted and peer reviewed. In order to be as inclusive as possible, the committee decided to accept all papers and not invite a speaker for the workshop event. On June 9, before the start of the main conference, there were 88 registrations. Eventually, the workshop was well attended throughout the whole program.

The organizing committee expresses its sincere gratitude to all authors of the accepted papers for their submissions and presentations, to the program committee for its diligent reviewing, and to the workshop attendees for a productive and intriguing series of talks and discussions.

July 2018

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