



19th International Conference on Artificial Intelligence and Law - ICAIL 2023

19th-23rd June 2023

Conference Venue:

University of Minho, Law School, Campus de Gualtar (Building 17), Braga, Portugal

ICAIL 2023



19th International Conference on Artificial Intelligence and Law - ICAIL 2023 19 to 23 June 2023 | University of Minho, Braga - Portugal

Since 1987, the International Conference on Artificial Intelligence and Law (ICAIL) has been the foremost international conference addressing research in Artificial Intelligence and Law. It is organized biennially under the auspices of the International Association for Artificial Intelligence and Law (IAAIL), and in cooperation with the Association for the Advancement of Artificial Intelligence (AAAI). The conference proceedings are published by ACM.

Programme

- [June 19 - Monday - Workshop Day 1](#)
- [June 20 - Tuesday - Conference Day 1](#)
- [June 21 - Wednesday - Conference Day 2](#)
- [June 22 - Thursday - Conference Day 3](#)
- [June 23 - Friday - Workshop Day 2](#)

June 19 - Workshop Day 1

8:30 - Participant Registration

9:00 - 13:00 Workshop Morning Session

- Online Dispute Resolution and E-Justice - **Room 0.02**
- Computable Contracts in Theory and Practice - **Room 0.05**
- AI4AJ23 - Artificial Intelligence for Access to Justice - **Room 0.11**
- COLIEE 2023 - Competition on Legal Information Extraction/Entailment - **Room 0.01**
- LegalAIIA 2023 - Third International Workshop for AI and Intelligent Assistance for Legal Professionals in the Digital Workplace - **Room 0.10**
- MELT - Method for Evaluating Legal Technologies - **Room 0.04**

13:00 - 14:00 - Lunch Break

14:00 Workshop Afternoon Session

- Online Dispute Resolution and E-Justice (cont'd) - **Room 0.02**
- Computable Contracts in Theory and Practice (cont'd) - **Room 0.05**
- AI4AJ23 - Artificial Intelligence for Access to Justice (cont'd) - **Room 0.11**
- COLIEE 2023 - Competition on Legal Information Extraction/Entailment (cont'd) - **Room 0.01**
- LegalAIIA 2023 - Third International Workshop for AI and Intelligent Assistance for Legal Professionals in the Digital Workplace (cont'd) - **Room 0.10**
- AIR - Artificial Intelligence Regulation - **Room 0.04**

19:00 Welcome Reception

University of Minho Rectory Garden, Largo do Paço, 4704-553 Braga

June 20 - Conference Day 1

8:30 - Participant Registration

8:45-9:00 - Opening Remarks

9:00-10:30 - Empirical Legal Data Analysis 1

Time

- The Perfect Victim: Computational Analysis of Judicial Attitudes towards Victims of Sexual Violence
- 9:00 Habba, Eliya; Keydar, Renana; Bareket, Dan; Stanovsky, Gabriel
- Gender Disparities in Child Custody Sentencing in Spain: a Data Driven Analysis
- 9:20 Riera, Júlia; Solans, David; Karimi-Haghighi, Marzieh; Castillo, Carlos; Calsamiglia, Caterina
- On predicting and explaining asylum adjudication
- 9:40 Piccolo, Sebastiano Antonio; Katsikouli, Panagioti; Gammeltoft-Hansen, Thomas; Slaats, Tijs
- Automatic Identification and Empirical Analysis of Legally Relevant Factors
- 10:00 Gray, Morgan; Savelka, Jaromir; Oliver, Wesley; Ashley, Kevin
- Conceptual Questions in Developing Expert-Annotated Data
- 10:20 Ma, Megan; Waldon, Brandon; Nyarko, Julian

10:30-11:00 - Coffee Break

11:00-12:00 - Invited Talk 1 - Natalie Byrom, Justice Lab (UK)

12:00-13:00 - Agent-based Models

Time

- Using Agent-Based Simulations to Evaluate Bayesian Networks for Criminal
 12:00 Scenarios
 van Leeuwen, Ludi; Verheij, Bart; Verbrugge, Rineke; Renooij, Silja
 Do agents dream of abiding by the rules? Learning norms via behavioral exploration
 and sparse human supervision
 12:20 Fratrič, Peter; Parizi, Mostafa Mohajeri; Sileno, Giovanni; Van Engers, Tom; Klous,
 Sander
 Multi-agent logic for reasoning about duties and powers in private law
 12:40 Xu, Tianwen; Ju, Fengkui

13:00-13:15 - Demo Pitches

13:15-14:15 - Lunch Break

14:15-15:00 - Demo Session

15:00-16:40 - Advances in Legal NLP 1

Time

- 15:00 MultiLegalSBD: A Multilingual Legal Sentence Boundary Detection Dataset
 Brugger, Tobias; Stürmer, Matthias; Niklaus, Joel
 Argumentation Structure Prediction in CJEU Decisions on Fiscal State Aid
 15:20 Santin, Piera; Grundler, Giulia; Galassi, Andrea; Galli, Federico; Lagioia, Francesca;
 Palmieri, Elena; Ruggeri, Federico; Sartor, Giovanni; Torroni, Paolo
 Extraction and Classification of Statute Facets using Few-shot Learning
 15:40 Pawar, Sachin; Ali, Basit; Palshikar, Girish K.; Singh, Ramandeep; Singh, Dharendra
 JusticeBot: A Methodology for Building Augmented Intelligence Tools for Laypeople
 16:00 to Increase Access to Justice
 Westermann, Hannes; Benyekhlef, Karim
 Combining a Legal Knowledge Model with Machine Learning for Reasoning with
 16:20 Legal Cases
 Mumford, Jack; Atkinson, Katie; Bench-Capon, Trevor

16:40-17:10 - Coffee Break

17:10-18:30 - Legal Data Analysis Applications

Time

- 17:10 Confidence Sequences for Evaluating One-Phase Technology- Assisted Review
 Lewis, David D.; Gray, Lenora; Noel, Mark
 A Quantitative Evaluation of Trademark Search Engines' Performances through
 17:30 Large-Scale Statistical Analysis
 Vandamme, Thomas; Cabay, Julien; Debeir, Olivier

- Beyond Readability with RateMyPDF: A Combined Rule-based and Machine Learning Approach to Improving Court Forms
Steenhuis, Quinten; Willey, Bryce; Colarusso, David
- 17:50 Image Analysis Approach to Trademark Congestion and Depletion
Haim, Amit; Kesari, Aniket
- 18:10 sustain.AI: a Recommender System to analyze Sustainability Reports
Hillebrand, Lars; Pielka, Maren; Leonhard, David; Deußner, Tobias; Dilmaghani, Tim; Kliem, Bernd; Loitz, Rüdiger; Morad, Milad; Temath, Christian; Bell, Thiago; Stenzel, Robin; Sifa, Rafet
- 18:20

June 21 - Conference Day 2

9:00-10:20 - Large Language Models in the Law

Time

- 9:00 Pre-trained Language Models for the Legal Domain: A Case Study on Indian Law
Paul, Shounak; Mandal, Arpan; Goyal, Pawan; Ghosh, Saptarshi
- 9:20 Can GPT-3 Perform Statutory Reasoning?
Blair-Stanek, Andrew; Holzenberger, Nils; Van Durme, Benjamin
- Legal Holding Extraction from Italian Case Documents using Italian- LEGAL-BERT
Text Summarization
- 9:40 Licari, Daniele; Bushipaka, Praveen; Marino, Gabriele; Comandé, Giovanni; Cucinotta, Tommaso
- Legal Syllogism Prompting: Teaching Large Language Models for Legal Judgment
Prediction
- 10:00 Jiang, Cong; Yang, Xiaolei
- Unlocking Practical Applications in Legal Domain: Evaluation of GPT for Zero-Shot
Semantic Annotation of Legal Texts
- 10:10 Savelka, Jaromir

10:20-11:00 - Coffee Break

11:00-12:00 - Invited Talk 2 - Daniel E. Ho, Stanford Law School

12:00-13:00 - Empirical Legal Data Analysis 2

Time

- Who really wrote Martin v. Hunter's Lessee? Applying a machine learning ensemble
to uncover a Chief Justice's unethical behavior
- 12:00 Chandler, Seth J.; Muenster, Emily A.; Lichtblau, Daniel
- Uncovering Trauma in Genocide Tribunals: An NLP Approach Using the Genocide
Transcript Corpus
- 12:20 Schirmer, Miriam; Nolasco, Isaac Misael Olguín; Mosca, Edoardo; Xu, Shanshan; Pfeffer, Jürgen

- 12:40 Binding Language in Administrative Guidance Documents
Haim, Amit
- 12:50 On the Semantic Difference of Judicial and Standard Language
Behnke, Gregor; Wais, Niklas

13:00-14:00 - Lunch Break

14:00-15:00 - IAAIL General Meeting

15:00-16:00 - Formal Models of Legal Reasoning 1

Time

- Justification, stability and relevance for case-based reasoning with incomplete focus cases
15:00 Odekerken, Daphne; Bex, Floris; Prakken, Henry
- 15:20 Hierarchical Precedential Constraint
van Woerkom, Wijnand; Grossi, Davide; Prakken, Henry; Verheij, Bart
- 15:40 Reasoning with hierarchies of open-textured predicates
Canavotto, Ilaria; Horty, John

16:00-16:30 - Coffee Break

16:30-18:00 - Formal Models of Legal Reasoning 2

Time

- 16:30 Argumentation Schemes for Legal Presumption of Causality
Liepina, Rūta; Wyner, Adam; Sartor, Giovanni; Lagioia, Francesca
- 16:50 A Formal Framework for Combining Legal Reasoning Methods
Prakken, Henry; Sartor, Giovanni
- 17:10 Model- and data-agnostic justifications with A Fortiori Case-Based Argumentation
Peters, Joeri G.T.; Bex, Floris J.; Prakken, Henry
- Analogical Reasoning, Generalization, and Rule Learning for Common Law
17:30 Reasoning
Blass, Joseph; Forbus, Kenneth D.
- 17:50 Whatever Happened to Hypotheticals?
Bench-Capon, Trevor

19:00 - Conference Dinner @ Hotel Melia, Av. Gen. Carrilho da Silva Pinto, 4715-380 Braga

June 22 - Conference Day 3

9:00-10:30 - Legal Knowledge Representation

Time

- 9:00 ANGELIC II: An Improved Methodology for Representing Legal Domain Knowledge
Atkinson, Katie; Bench-Capon, Trevor
- 9:20 Deontic Ambiguities in Legal Reasoning
Governatori, Guido; Rotolo, Antonino
- 9:40 Identification of Legislative Errors
Araszkiewicz, Michał; Francesconi, Enrico; Zurek, Tomasz
- 10:00 Computable Contracts by Extracting Obligation Logic Graphs
Servantez, Sergio; Lipka, Nedim; Siu, Alexa; Aggarwal, Milan; Krishnamurthy, Balaji;
Garimella, Aparna; Hammond, Kristian; Jain, Rajiv
- 10:20 On Normative Arrows and Comparing Tax Automation Systems
Meessen, P.N.

10:30-11:00 - Coffee Break

11:00-12:00 - President's Address - Floris Bex, Utrecht University

12:00-13:10 - Ethics, Explainability, Privacy

Time

- 12:00 Computational Accountability
Hulstijn, Joris
- 12:20 Rebuilding 'ethics' to govern AI: How to re-set the boundaries for the legal sector?
Unver, Mehmet B.
- 12:40 Automated Anonymization of Court Decisions Facilitating the Publication of Court
Decisions through Algorithmic Systems
Terzidou, Kalliopi
- 13:00 Effects of XAI on Legal Process
Nielsen, Aileen; Skylaki, Stavroula; Norkute, Milda; Stremitzer, Alexander

13:10-14:15 - Lunch Break

14:15-15:45 - Advances in Legal NLP 2

Time

- 14:15 Don't Use a Cannon to Kill a Fly: An Efficient Cascading Pipeline for Long
Documents
Li, Zehua; Guha, Neel; Nyarko, Julian
- 14:35 No Labels? No Problem! Experiments with active learning strategies for multi-class
classification in imbalanced low-resource settings
Steegh, Emiel; Sileno, Giovanni
- 14:55 Argument Mining with Graph Representation Learning
Zhang, Gechuan; Nulty, Paul; Lillis, David
- 15:15 LeArNER: Few-shot Legal Argument Named Entity Recognition
Lee, Shao-Man; Tan, Yu-Hsiang; Yu, Han-Ting

- “What’s wrong with this product?” - Detection of product safety issues based on information consumers share online
 15:25 Fuchs, Max; Jadhav, Amit; Jaishankar, Advait; Cauffman, Caroline; Spanakis, Gerasimos
- A Dataset of German Legal Reference Annotations
 15:35 Darji, Harshil; Mitrović, Jelena; Granitzer, Michael

15:45-16:15 - Coffee Break

16:15-17:35 - Advances in Legal NLP 3

Time

- The Dutch Law as a Semantic Role Labeling Dataset
 16:15 van Drie, Romy A. N.; de Boer, Maaike H. T.; Bakker, Roos M.; Tolios, Ioannis; Vos, Daan
- EQUALS: A Real-world Dataset for Legal Question Answering via Reading Chinese Laws
 16:35 Chen, Andong; Yao, Feng; Zhao, Xinyan; Zhang, Yating; Sun, Changlong; Liu, Yun; Shen, Weixing
- Improving Translation of Case Descriptions into Logical Fact Formulas using LegalCaseNER
 16:55 Zin, May Myo; Nguyen, Ha Thanh; Satoh, Ken; Sugawara, Saku; Nishino, Fumihito
- Analysing the Resourcefulness of the Paragraph for Precedence Retrieval
 17:05 Sisodiya, Bhoomendra Singh; Unnam, Narendra Babu; Reddy, P. Krishna; Das, Apala; Santhy, K.V.K.; Reddy, V. Balakista
- On evaluating legal summaries with ROUGE
 17:15 Steffes, Bianca; Rataj, Piotr; Burger, Luise; Roth, Lukas
- Keyword-based Augmentation Method to Enhance Abstractive Summarization for Legal Documents
 17:25 Nguyen, Huyen; Ding, Junhua

17:35-17:50 - Closing Remarks

June 23 - Workshop Day 2

9:00 - 13:00 Workshop Morning Session

- Doctoral Consortium - **Room 0.04**
- CAOAC 2023 - Computational Analysis of Apex Courts - **Room 0.05**
- ASAIL 2023 - Automated Semantic Analysis of Information in Legal Text - **Room 0.11**
- AI4Legs 2023 - AI for Legislation - **Room 0.10**
- Joint Workshop BEFAIR2023 – EMAI2023 – LoReTra2023 - **Room 0.01**
- ICT & Legal Education 2023 - Digital Education for Legal Profession - **Room 0.02**

13:00-14:00 - Lunch Break

14:00-18:00 Workshop Afternoon Session

- Doctoral Consortium (cont'd) - **Room 0.04**
- CAOAC 2023 (cont'd) - **Room 0.05**
- BEFAIR²+EMAI 2023 (cont'd) - **Room 0.01**
- ASAIL 2023 (cont'd) - **Room 0.11**
- AI4Legs 2023 (cont'd) - **Room 0.10**
- Electronic Discovery - **Room 0.02**

Organization

- University of Minho - Law School, JusGov - Research Center for Justice and Governance, Informatics Departments at Engineering School, Centro Algoritmi
- LASI - Intelligent Systems Associated Laboratory

Chair team

- Program Chair: Matthias Grabmair, matthias.grabmair@tum.de
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