JURIX 2018

The 31ˢᵗ International Conference on Legal Knowledge and Information Systems

Groningen, The Netherlands
Het Kasteel
12ᵗʰ-14ᵗʰ December 2018

http://jurix2018.ai.rug.nl/

JURIX 2018 Conference Program

Wednesday 12th December

Workshops

09.00 Registration

09.30 - 13.00 Morning Workshop Sessions
(Coffee break at 11.00-11.30)

Workshop I: *AICOL – Artificial Intelligence and the Complexity of Legal Systems*

Workshop II: *TeReCom – Technologies for Regulatory Compliance*

Workshop III: *XAILA – EXplainable AI in Law*

Workshop IV: *Legal Design as Academic Discipline*

Workshop V: *Many Laws*

13.00 - 14.00 Lunch

14.00 - 17.00 Afternoon Workshop Sessions
(Coffee break at 15.00-15.30)

Workshop I: *AICOL – Artificial Intelligence and the Complexity of Legal Systems* and *Doctoral Consortium*

Workshop II: *TeReCom – Technologies for Regulatory Compliance*

Workshop III: *XAILA – EXplainable AI in Law*

Workshop IV: *Legal Design as Academic Discipline*

Workshop V: *Many Laws*

Workshop VI: *CEILI – Legal Data Analysis*

Poster+Demo

18.00-19.30 Welcome Reception

Thursday 13th December

08.30 – 18.30 Registration

09.00 Prof. Jan Berend Wezeman, Dean of the Law School of University of Groningen

09.15 Opening remarks by Program Chair and Local Organization Co-Chairs

09.30 – 11.00 **Session I: Machine Learning for the Legal Domain**   *CHAIR: KEVIN ASHLEY*

Giuseppe Contissa, Koen Docter, Francesca Lagioia, Marco Lippi, Hans-Wolfgang Micklitz, Przemyslaw Palka, Giovanni Sartor and Paolo Torroni.
Automated Processing of Privacy Policies under the EU General Data Protection Regulation

Ingo Glaser, Elena Scepankova and Florian Matthes.
Classifying Semantic Types of Legal Sentences: Portability of Machine Learning Models

Takahiro Yamakoshi, Takahiro Komamizu, Yasuhiro Ogawa and Katsuhiko Toyama.
Japanese Legal Term Correction using Random Forests

Robert Bevan, Alessandro Torrisi, Katie Atkinson, Danushka Bollegala and Frans Coenen.
Efficient and Effective Case Reject-Accept Filtering: A Study Using Machine Learning [short]

11.00 – 11.30. Break

11.30 – 13.00. **Session II: Machine Learning for the Legal Domain**   *CHAIR: KATIE ATKINSON*

Josef Valvoda, Oliver Ray and Ken Satoh.
Using Agreement Statements to Identify Majority Opinion in UKHL Case Law

Jaromír Šavelka and Kevin D. Ashley.
Segmenting U.S. Court Decisions into Functional and Issue Specific Parts

Remi Wieten, Floris Bex, Henry Prakken and Silja Renooij.
Exploiting Causality in Constructing Bayesian Network Graphs from Legal Arguments

Xin Tian, Yin Fang, Yang Weng, Yawen Luo and Zhu Wang.
K-means Clustering for Controversial Issues Merging in Chinese Legal Texts [short]

13.00 – 14.00. Lunch

Lunch Time: Poster+Demo / Doctoral Consortium

14.00 – 15.00. **Invited talk**

Marie-Francine Moens, *KU Leuven*

Deep Learning for Text Analytics and Generation in Law

15.00 – 15.30. Break

15.30 – 17.00. **Session III: Legal Knowledge Extraction**
CHAIR: ENRICO FRANCESCONI

Roos Slingerland, Alexander Boer and Radboud Winkels.
Analysing the Impact of Legal Change through Case Classification

Iosif Angelidis, Ilias Chalkidis and Manolis Koubarakis.
Named Entity Recognition, Linking and Generation for Greek Legislation

Alessandra Cid, Alexandre Rademaker, Bruno Cuconato and Valeria de Paiva.
Linguistic Legal Concept Extraction [short]

Jay Morgan, Adeline Paiement, Monika Seisenberger, Jane Williams and Adam Wyner.
A Chatbot Framework for the Children's Legal Centre [short]

DC winner, runner-up 5 minutes

17:00– 18:00 **Session IV: Legal Knowledge Retrieval**
CHAIR: ERICH SCHWEIGHOFER

Diego Collarana, Timm Heuss, Jens Lehmann, Ioanna Lytra, Gaurav Maheshwari, Rostislav Nedelchev and Priyansh Trivedi.
A Question Answering System on Regulatory Documents

Julien Rossi and Evangelos Kanoulas.
Query Generation for Patent Retrieval with Keyword Extraction based on Syntactic Features [short]

Maximiliano Budán, Maria Laura Cobo, Diego C. Martínez and Antonino Rotolo.
Dealing with Qualitative and Quantitative Features in Legal Argumentation [short]

18.00 Close

20.00 Conference Dinner

Friday 14th December

9.00 – 11.00. **Session V: Legal Reasoning and Argumentation: Theoretical and Practice Experiences**
CHAIR: FLORIS BEX

Sotiris Batsakis, George Baryannis, Guido Governatori, Ilias Tachmazidis and Grigoris Antoniou.
Legal Representation and Reasoning in Practice: A Critical Comparison

Katie Atkinson and Trevor Bench-Capon.
Lessons From Implementing Factors with Magnitude

Heng Zheng, Minghui Xiong and Bart Verheij.
Checking the Validity of Rule-based Arguments Grounded in Cases: a Computational Approach [short]

Monica Palmirani and Guido Governatori.
Modelling Legal Knowledge for GDPR Compliance Checking

Federico Cerutti, Timothy Norman and Alice Toniolo.

A Tool to Highlight Weaknesses and Strengthen Cases: CISpaces.org [short]

Arthur Crivella, Wesley Oliver and Morgan Gray.
Coding Suspicion [short]

11.00 – 11.30. Break

11.30 – 13.00. **Session VI: Legal Knowledge Modelling and Visualization**   *CHAIR: POMPEU CASANOVAS*

Armando Stellato, Andrea Turbati, Manuel Fiorelli, Tiziano Lorenzetti, Peter Schmitz, Enrico Francesconi, Najeh Hajlaoui and Brahim Batouche.
Towards the Assessment of Gold-Standard Alignments between Legal Thesauri

Monica Palmirani, Cesare Bartolini, Michele Martoni, Livio Robaldo and Arianna Rossi.
Legal Ontology for Modelling GDPR Concepts and Norms

Jörg Landthaler, Ingo Glaser and Florian Matthes.
Towards Explainable Semantic Text Matching [short]

Nicola Lettieri, Delfina Malandrino and Alfonso Guarino.
E-science and the Law. Three Experimental Platforms for Legal Analytics

13.00 – 14.00. Lunch

14.00 – 15:00. **Invited talk**

   Jeroen van den Hoven, *Delft University of Technology*

      AI and Law: the need for Ethics by Design

15.00 – 15.30. Break

15:30 – 16.50. Session VII: Legal Blockchain

CHAIR: GUIDO GOVERNATORI

Ugo Pagallo, Bassi Eleonora, Massimo Durante and Marco Crepaldi.
Chronicle of a Clash Foretold: Blockchains and the GDPR's Right to Erasure

Shaun Azzopardi, Gordon Pace and Fernando Schapachnik.
On Observing Contracts: Deontic Contracts Meet Smart Contracts

Oleksii Konashevych and Marta Poblet.
Is Blockchain Hashing an Effective Method for Electronic Governance? [short]

17.00 Closing