



**JURIX 2018
The 31st
International
Conference
on Legal Knowledge
and Information**

Systems

Conference Program



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

jurix2018.ai.rug.nl

Wednesday 12th December

Workshops

09.00 – 18.30 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*
Room 1.12

Workshop II: *TeReCom – Technologies for Regulatory Compliance*
Conference room

Workshop III: *XAILA – EXplainable AI in Law*
Room 1.04

Workshop IV: *Legal Design as Academic Discipline*
W.F. Hermans room

Workshop V: *Many Laws*

Professors room

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*

Room 1.12

Workshop II: *TeReCom – Technologies for Regulatory Compliance*

Conference room

Workshop III: *XAILA – EXplainable AI in Law*

Room 1.04

Workshop IV: *Legal Design as Academic Discipline*

W.F. Hermans room

**Workshop VI: CEILI – Legal Data
Analysis**

Professors room

18.00 – 19.30 Welcome Reception

Thursday 13th December

Main conference – Day 1

Conference room

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

13.00 – 14.00 Lunch

Lunch time: posters and demos in Room 1.09

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 Closing of the day

19.30 welcome, 20.00 start Conference
Dinner (requires registration)

Friday 14th December

Main conference – Day 2

Conference room

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 of the conference

Posters
and
demos
in Room 1.09

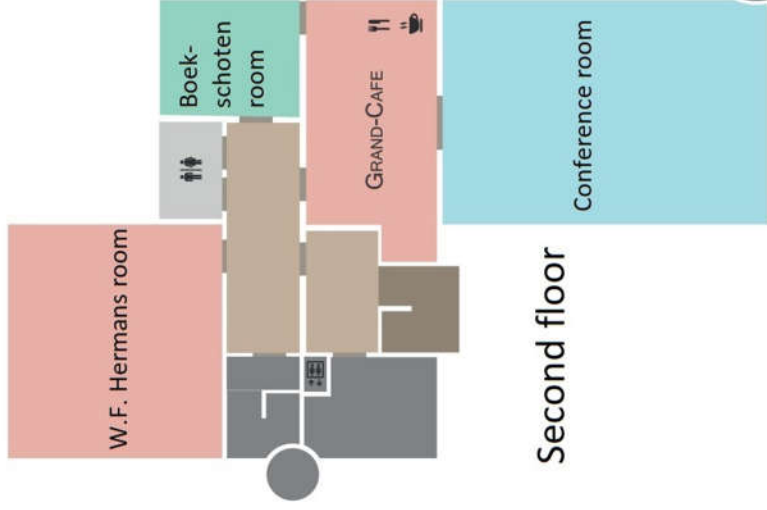
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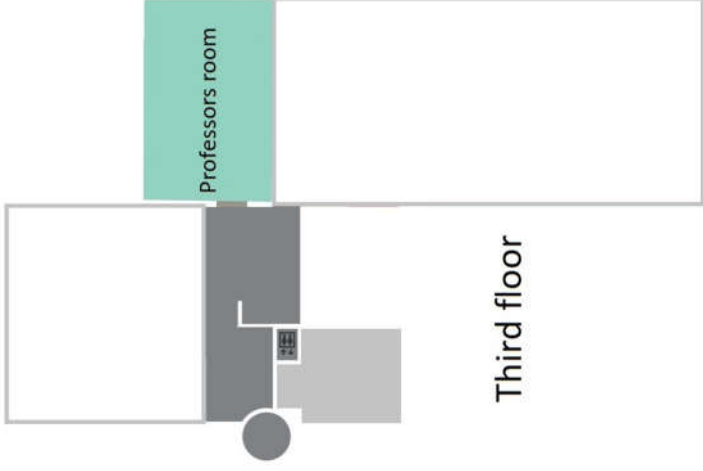




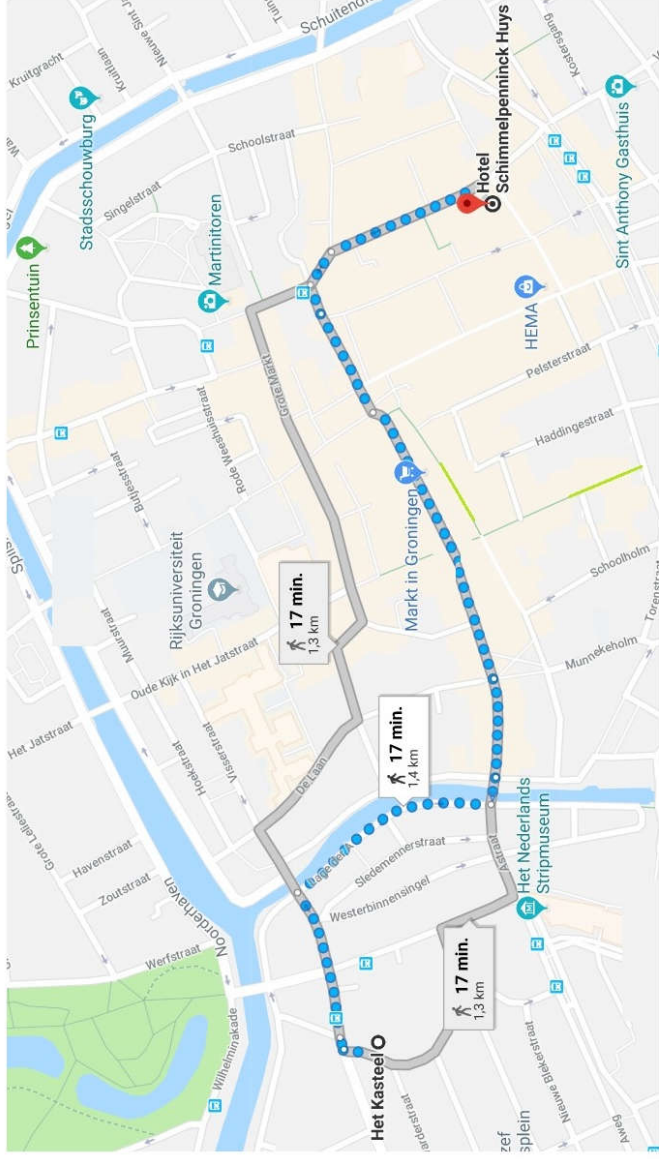
First floor



Second floor



Third floor



Conference dinner: Hotel Schimmelpenninck Huys,
Oosterstraat 53, 9711 NR Groningen
(registration required)