



**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](http://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

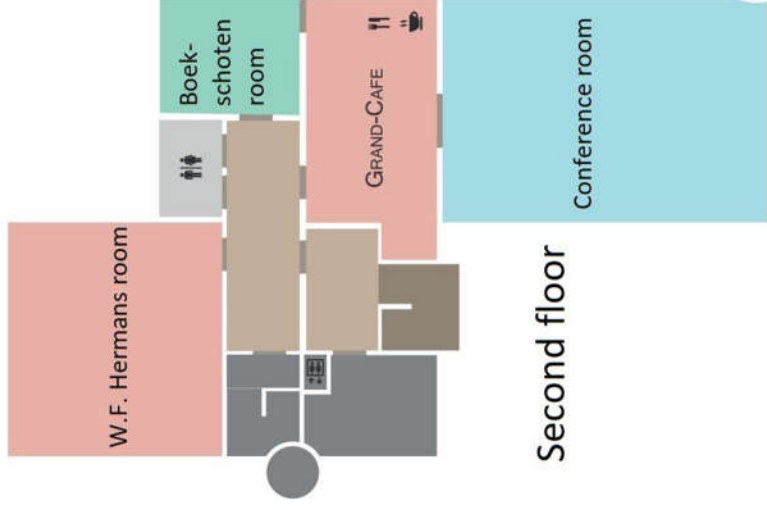
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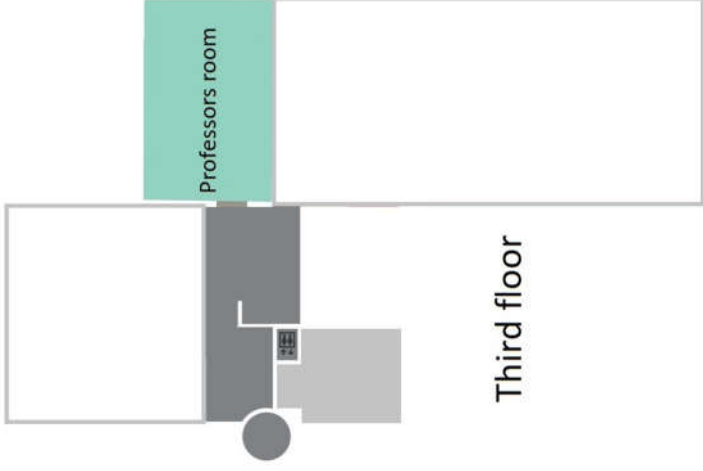


First floor

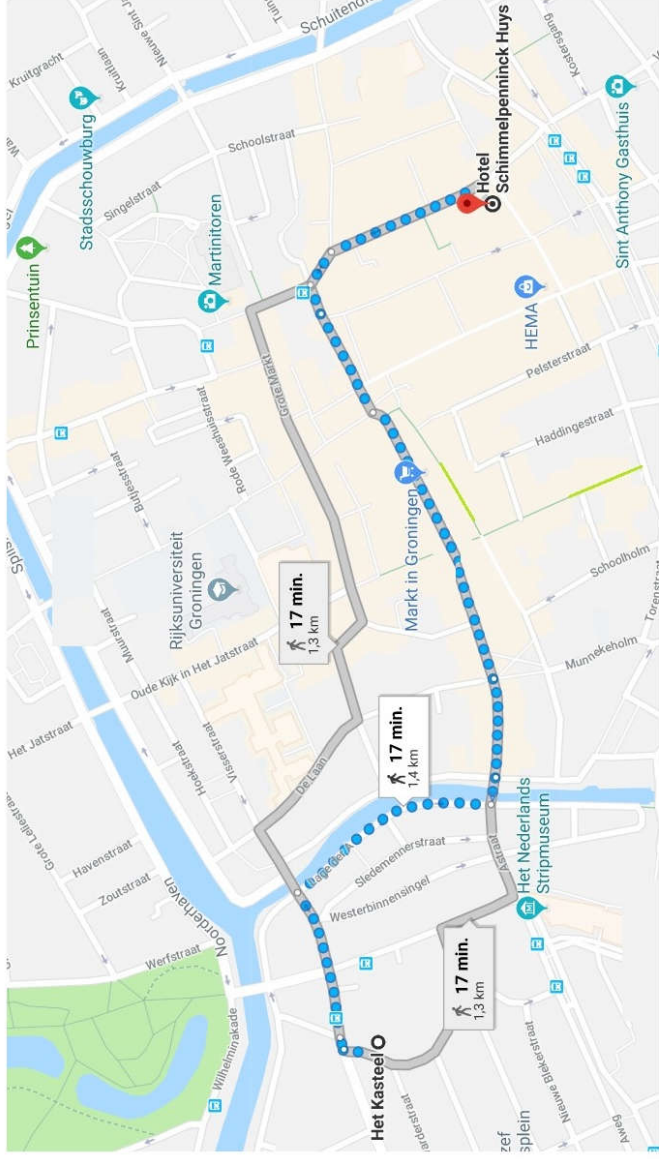


Second floor





Third floor



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