



## Research Workshop 8 April 2022

### EU law through the lens of data science and computational approaches

#### Objectives of the workshop

The aim of the workshop is for participants to discuss data science and computational analysis as a methodology for analyzing EU law and to critically reflect on new research directions in the field. This interdisciplinary workshop is intended to foster a discussion on methodological, theoretical, conceptual and practical challenges of studying EU law through the lens of data and computational analysis. It brings together researchers working in different areas of EU law, law and technology and data science.

Participants will gain insight into a new CJEU case law database developed by iCourts data scientists. They will share and discuss various research projects having put data science and computational analysis to the service of understanding EU law. Participants will discuss how these approaches can support legal analysis as well as critically reflect on challenges and prospects in the field.

During the workshop, the KU Data Lab will also showcase some examples of research applications of data science methods. The workshop will conclude with a roundtable discussion, inviting speakers to critically reflect on new research directions in EU law and data science approaches, with a special focus on applying these methodologies to their areas of expertise.

8:30-9:00 Welcome breakfast buffet

09:00 Welcome address by iCourts' director Mikael Rask Madsen

#### 9:15 Opening: objectives of the workshop

Prof. Henrik Palmer Olsen (iCourts, University of Copenhagen) and Dr. Raphaële Xenidis (iCourts, University of Copenhagen/University of Edinburgh, School of Law)

Panel 1

Introducing Law and Network Analysis

#### 09:30 Unlocking the potential of network analysis in law

Prof. Fabien Tarissan (CNRS France) and Prof. Urska Sadl (EUI)

**10:00 Network analysis and EU law: introducing the ‘case to-paragraph network CJEU dataset’**

Dr. Ioannis Panagis, Data Expert and Prof. Henrik Palmer Olsen (iCourts, University of Copenhagen)

**10:30 Discussion with the audience**

Panel 2

Legal information retrieval and EU law

**11:00 Legal information retrieval: state of the art, challenges and next level**

Anton Geist (Lexis Nexis Austria)

**11:30 Bias and debiasing in legal information retrieval**

Dr. Ilias Chalkidis, Letizia Tomada & Dr. Sebastian Schwemer (CIIR & Computer Science, University of Copenhagen)

**12:00 Discussion with the audience**

12:30 Lunch break

Panel 3

Data analysis in practice: exploring the potential and monitoring the consequences

**13:30 Showcasing the use of data science methods and hands-on exercise on the CJEU dataset**

Dr. Obaida Hanteer and Dr. Selda Eren Kanat (KU data lab, University of Copenhagen)

**14:00 Presentation of the project “AutoCheck – a Guide about Automated Decision-Making Systems for Equality Bodies” (AlgorithmWatch & German Federal Anti-Discrimination Agency)**

Jessica Wulf (AlgorithmWatch)

**14:30 Discussion with the audience**

Panel 4

Bringing theory back in: EU law, information retrieval and predictive analytics

**15:00 Multi-lingual information retrieval and EU law: a role for theory?**

Prof. Burkhard Schafer (The University of Edinburgh, School of Law)

**15:30 Computational law: predicting the outcome of legal cases?**

Prof. Giovanni Sartor and Prof. Francesca Lagioia, University of Bologna / European University Institute

**16:00 Discussion and Q&A with the audience**

16:30-17:00 Coffee break

Panel 5
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Final reflections and further research directions
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**17:00 Roundtable discussion: Reflections on the use of data analytics in EU law and new research directions**

Speakers: Prof. Mikkael Rask Madsen, Prof. Henrik Palmer Olsen, Dr. Amalie Frese, Dr. Martin Lolle Christensen, Dr. Jake Slosser, Mathias Smed Larsen (iCourts, University of Copenhagen)

Moderator: Dr. Raphaële Xenidis

17:30 Discussion and Q&A with the audience

18:00 Closing remarks

19:00 Dinner (speakers only)

**Participants:**

Dr. Ilias Chalkidis, Computer Science, University of Copenhagen

Dr. Martin Lolle Christensen, iCourts, University of Copenhagen

Dr. Amalie Frese, iCourts, University of Copenhagen

Anton Geist, Lexis Nexis Austria

Dr. Obaida Hanteer, KU data lab, University of Copenhagen

Dr. Selda Eren Kanat, KU data lab, University of Copenhagen

Mathias Smed Larsen, University of Copenhagen

Prof. Henrik Palmer Olsen, iCourts, University of Copenhagen

Dr. Ioannis Panagis, Data Expert, iCourts, University of Copenhagen

Prof. Mikael Rask Madsen, iCourts, University of Copenhagen

Prof. Urska Sadl, Law Department, European University Institute and iCourts, University of Copenhagen

Prof. Giovanni Sartor, European University Institute and University of Bologna (Italy)

Prof. Burkhard Schafer, School of Law, The University of Edinburgh (United Kingdom)

Dr. Sebastian Schwemer, CIIR, University of Copenhagen

Dr. Jake Slosser, iCourts, University of Copenhagen

Prof. Fabien Tarissan, CNRS (France)

Dr. Letizia Tomada, CIIR, University of Copenhagen

Jessica Wulf, AlgorithmWatch (Germany)

Dr. Raphaële Xenidis, iCourts, University of Copenhagen and School of Law, University of Edinburgh (United Kingdom)

### **Registration**

The workshop is open to the public. Registration is mandatory.

### **Funding**

Participation in the workshop, dinner, travel and accommodation for invited speakers will be funded by a Saltire Research Workshop Facilitation Award of the Royal Society of Edinburgh.