

Title: EXplainable & Responsible AI in Law (XAILA) 2020

(XAILA webpage <http://xaila.geist.re>)

Co-located with: JURIX 2020 <https://jurix2020.law.muni.cz>

Organizers: Grzegorz J. Nalepa, Michał Araszkiwicz, Bart Verheij, Martin Atzmueller (Jagiellonian University, Poland; University of Groningen, The Netherlands; University of Osnabrueck, Germany)

Motivation for the workshop:

In the last several years we have observed a growing interest in advanced AI systems achieving impressive task performance. However, there has also been an increased awareness of their complexity and challenging consequences of their possibly limited understandability to humans. In response, a number of research directions have been initiated. These include humanized or human-centered AI, as well as ethically aligned, ethically designed, or just ethical AI. In many of these ideas, the principal concept seems to be the explanatory capability of the AI system (XAI), e.g. via interpretable and explainable machine learning, inclusion of human background knowledge and adequate declarative knowledge, that could provide foundations not only for transparency and understandability, but also for a possible value alignment and human centricity, as the explanation is to be provided to humans.

Recently, the term responsible AI (RAI) has been coined as a step beyond XAI. Discussion of RAI has been again strongly influenced by the “ethical” perspective. However, as practitioners in our fields we are convinced that the advancements of AI are way too fast, and the ethical perspective much too vague to offer conclusive and constructive results. We are convinced that the concepts of responsibility, and accountability should be considered primarily from the legal perspective, also because the operation of AI-based systems poses actual challenges to rights and freedoms of individuals. In the field of law, these concepts should obtain some well-defined interpretation, and reasoning procedures based on them should be clarified. The introduction of AI systems into the public, as well as the legal domain brings many challenges that have to be addressed. The catalogue of these problems include, but is not limited to: (1) the type of liability adequate for the operation of AI (be it civil, administrative or criminal liability); (2) the (re)interpretation of classical legal concepts concerning the ascription of liability, such as causal link, fault or foreseeability and (3) the distribution of liability among the involved actors (AI developers, vendors, operators, customers etc.). As the notions relevant for the discussion of legal liability evolved on the basis of observation and evaluation of human behavior, they are not easily transferable to the new and disputable domain of liability related to the operation of artificial intelligent systems. The goal of the workshop is to cover and integrate these problems and questions, bridging XAI and RAI by integrating methodological AI, as well as the respective ethical and legal perspectives, also specifically with support of established concepts and methods regarding responsibility, and accountability.

Topics of interest

Our objective is to bring people from AI interested in XAI and RAI topics and create an ample space for discussion with people from the field of legal scholarship and/or legal practice, and most importantly the vibrant AI&Law community. As many members of the AI and Law community join both perspectives, the JURIX conference is the perfect venue for the workshop. Together we would like to address some questions like:

- the notions of transparency, interpretability and explainability in XAI
- non-functional design choices for explainable and transparent AI systems
- legal consequences of black-box AI systems
- legal criteria and requirements for explainable, transparent, and responsible AI systems

- criteria of legal responsibility discussed in the context of intelligent systems operation and the role of explainability in liability ascription
- possible applications of XAI systems in the area of legal policy deliberation, legal practice, teaching and research
- legal implications of the use of AI systems in different spheres of societal life
- the notion of right to explanation
- relation of XAI and RAI to argumentation technologies
- approaches and architectures for XAI and RAI in AI systems
- XAI, RAI and declarative domain knowledge
- risk-based approach to analysis of AI systems and the influence of XAI on risk assessment
- incorporation of ethical values into AI systems, its legal interpretation and consequences
- XAI, privacy and data protection (conceptual and theoretical issues)
- XAI, certification and compliance

Workshop format: paper presentations + panel discussion, 1 invited talk
Intended audience are practitioners and theorists from both law and AI.

List of members of the program committee (tentative):

Martin Atzmueller, Osnabrueck University, Germany
 Michal Araszkiwicz, Jagiellonian University, Poland
 Kevin Ashley, University of Pittsburgh, USA
 Szymon Bobek, AGH University, Poland
 Jörg Cassens, University of Hildesheim, Germany
 David Camacho, Universidad Autonoma de Madrid, Spain
 Pompeu Casanovas, Universitat Autonoma de Barcelona, Spain
 Teresa Moreira, University of Minho Braga, Portugal
 Paulo Novais, University of Minho Braga, Portugal
 Grzegorz J. Nalepa, AGH University, Jagiellonian University, Poland
 Tiago Oliveira, National Institute of Informatics, Japan
 Martijn von Otterlo, Tilburg University, The Netherlands
 Adrian Paschke, Freie Universität Berlin, Germany
 Monica Palmirani, Università di Bologna, Italy
 Radim Polčák, Masaryk University, Czech Republic
 Marie Postma, Tilburg University, The Netherlands
 Ken Satoh, National Institute of Informatics, Japan
 Erich Schweighofer, University of Vienna, Austria
 Michal Valco, Constantine the Philosopher University in Nitra, Slovakia
 Tomasz Żurek, Maria Curie-Skłodowska University of Lublin, Poland

Important dates:

Submission: 26.10.2020
 Notification: 23.11.2020
 Camera-ready: 30.11.2020
 Workshop: 09.12.2020

Submission and proceedings:

A dedicated EasyChair installation is provided at

<https://easychair.org/conferences/?conf=xaila2020>

Workshop proceedings will be made available by CEUR-WS. A post workshop journal publication is considered.