



First Workshop on ML, Law and Society

22nd of September 2023 - Torino, Italy

Machine learning (ML) has revolutionized many aspects of our lives, from healthcare to transportation, and from finance to entertainment. However, the increasing reliance on ML algorithms has raised a number of important ethical, legal, and social issues that require attention from researchers and practitioners in various disciplines. The tradeoffs between various non-functional aspects, such as resource-efficiency, fairness, and privacy, are becoming more and more important as ML systems are deployed in real-world settings. The ethical and legal implications of using ML in decision-making, such as hiring or lending, are also a topic of growing concern. Moreover, ML algorithms can have unintended consequences that affect different groups of people in different ways, and it is important to identify and mitigate such biases.

To address these issues, we propose the First Interdisciplinary Workshop on **ML, Law and Society**, which aims to bring together researchers and practitioners from different disciplines, including computer science, law, philosophy, sociology, and psychology, to discuss the non-functional tradeoffs, ethics, and law related to ML. The workshop will provide a forum for participants to share their latest research, exchange ideas, and collaborate on future projects.

We believe that this workshop will provide a valuable opportunity for researchers and practitioners to engage in a multidisciplinary dialogue on the non-functional tradeoffs, ethics, and law related to ML, and to identify new research directions and collaborations.

Important dates

- Paper Submission Deadline:** ~~June 12th~~ June 25th (11:59pm, [AoE](#)) 2023
- Author Notification:** July 12th 2023
- Camera Ready:** October 1st (11:59pm, [AoE](#)) 2023
- Workshop:** September 22rd 2023

The early bird registration deadline for authors of workshop papers will remain open until monday, July 31st 2023 end of day (AoE). Register here: <https://2023.ecmlpkdd.org/attending/registration/>

Workshop Program

- 9:00: Welcome
- 9:15: Keynote Talk: Prof. Giovanni Comandè - Search Find Solve: ethics and regulatory compliance in AI
- 10:00: **Session 1 - AI Regulation**
- 10:00: The AI Act is Coming: Are E-Health Manufacturers Ready? Marinella Quaranta, Ilaria Amantea.
- 10:15: FLAIRS: Federated Learning Regulatory Sandbox. Mary K Roszel, Radu State, Beltrain Fiz.
- 10:30: Trustworthy AI Development in Education. Clara Punzi, Andrea Fedele, Stefano Tramacere
- 10:45: Coffee Break + Poster Session
- 11:15: Keynote Talk: Prof. Vaishak Belle - On the relevance of logic for AI and the promise of neuro-symbolic learning
- 12:00: Lunch Break
- 13:00: **Session 2 - AI for Law**
- 13:00: Enhancing e-Justice: Assessing the effectiveness of specialized LLMs' applications with Cicero. Francesca De Luzi, Massimo Mecella, Mattia Macri, Tommaso Mencattini, Marco Calamo, Filippo Bianchini.
- 13:15: A practical application of Artificial Intelligence techniques for legal context analysis. Chiara Bonfanti, Michele Colombino, Giorgia Iacobellis, Rachele Mignone, Ivan Spada, Laurentiu Jr Marius Zaharia, Susanna Marta, Marianna Molinari, Ilaria Angela Amantea, Emilio Sulis, Luigi di Caro, Guido Boella.
- 13:30: **Session 3 - Process Mining for Law**
- 13:30: Variants analysis in judicial trials: Challenges and initial results. Alessandro Campi, Stefano Ceri, Marco Dilettis, Barbara Pernici.
- 13:45: Process mining on a public procurement dataset: a case study. Roberto Nai, Emilio Sulis, Rosa Meo, Francesco Gorgerino, Gabriella Racca, Laura Genga.
- 14:00 Keynote Talk: Atte Ojanen.
- 14:45: Coffee Break + Poster Session
- 15:15: **Session 4 - Fairness in ML**
- 15:15: Algorithmic Positive Discrimination. Robert L Poe
- 15:30: Towards a process view of algorithmic fairness. Stefan Kramer.
- 15:45: **Session 5 - Privacy**
- 15:45: Mental state classification using EEG signals: ethics, law and challenges. Remi Nahon, Nasim Bagheri Shouraki, Giovanna Varni, Enzo Tartaglione, Van-Tam Nguyen.
- 16:00: Techniques to achieve anonymisation of health data: When are they sufficient to be considered as legally compliant? Fatma Sümeyra Doğan, Soumia Zohra El Mestari, Marietjie Botes
- 16:15: Google Topics as a way out of the cookie dilemma? Marius Köppel, Jan-Philipp Stroscher
- 16:30: Plenary Discussion
- 17:00: Poster Session

Call for Papers

- The workshop is organized in two separate tracks (subject areas):
- [Non-Functional tradeoffs, Law and Society](#);
 - [Knowledge Discovery and Process Mining for Law \(KDPM4LAW\)](#).

We welcome **early-stage submissions** and **previously published work** exploring these themes and advancing the state of the art in fairness, interpretability, privacy, resource-efficiency of ML; ethics of AI and ML; regulation of ML technology broadly conceived and in the European regulatory framework especially; data mining and process mining in legal corpora. We encourage interested authors to **read the topics for each track** at their respective pages.

Submissions will be reviewed following a single-blind procedure. Therefore, authors should include their names and affiliations in the paper.

- Both tracks accept the following formats for papers:
- Regular length papers**, 14 pages excluding citations.
 - Short papers**, 7 pages excluding citations.
 - Extended abstracts of already published work**, 2 pages excluding citations.

The papers should follow the formatting instructions included [here](#).

For a list of topics see also: [Call for Papers](#)

Special Thanks to our Sponsors





Organization

Workshop Chairs

- Mattia Cerrato (Johannes Gutenberg University Mainz), mcerrato@uni-mainz.de
- Marius Köppel (Johannes Gutenberg University Mainz), mkoeppele@uni-mainz.de
- Roberto Nai (University of Turin), roberto.nai@unito.it
- Galileo Sartor (University of Turin), galileo.sartor@unito.it
- Emilio Sulis (University of Turin), emilio.sulis@unito.it
- Alesia Vallenias Coronel (Johannes Gutenberg University Mainz), alvallen@uni-mainz.de

The workshop will be held in conjunction with

European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases 2023 (ECML
PKDD 2023)

