IEA-AIE 2018 Special Track: Artificial Intelligence, Law and Justice

Over the past few years, the widespread development of Artificial Intelligence (AI) in the legal and judicial domains, and the rise of legal technologies have started to cause a revolution, both in the daily life of practitioners and in the foundations of these domains.

The availability of large corpora of legal documents allows to train machine-learning-based systems, which are now used by lawyers build cases, shortening the time needed to find relevant information within the haystack of jurisprudence. These machine/deep learning based systems have a profound influence on the daily practice of legal professionals. However, the automation of such work can cause social opposition. The advent of predictive justice, which will have a deep impact on the legal system in both the mid- and long-term, also raises important ethical issues (e.g. transparency and discrimination).

These points will become even more pronounced if some of the decisions previously made by judges are automatized in the future. In addition, access to software predicting the outcome of a case and the likely amount of compensation has lead to the development of legal optimization: one aims to plead a case in the most favorable conditions to win. It will exacerbate the power imbalance between legal teams that have access to AI and those that do not. Thus, while AI has the potential to positively impact many aspects of law and justice, it must be applied in an ethical and socially responsible manner.

The objective of the proposed Special Track is to gather both researchers and professionals working at the crossroads of artificial intelligence, law and justice. Participants will have the opportunity to present recent developments in the field, to discuss the main challenges lying ahead, both scientifically and in terms of social acceptability and ethics. The Special Track is looking for theoretical contributions as well as practical contributions targeting real-life applications. In addition, the Special Track being multidisciplinary by nature, contributions coming from human and social sciences are also welcomed.

Topics of interest of the Special Track, in the scope of the legal domain, include but are not limited to:
- machine/deep learning models
- information retrieval approaches
- classification
- information extraction
- data and text mining
- big data analytics
- knowledge representation
- intelligent systems
- ...

Important Dates:
  • Date: June 25-28th, 2018
  • Submission Deadline: January 20th, 2018
  • Notification of Acceptance : February 19th, 2018
  • Camera Ready : February 26th, 2018

Submitted papers must be formatted using the Springer LNCS/LNAI style. LaTeX2e style file is available from Springer: http://www.springer.com/gp/computer-science/lncs/conference-proceedings-guidelines

Co-organizers:
Hugo Cyr – Dean of the Faculty of Political Science and Law
Sébastien Gambs – Professor of Computer Science [Privacy and Security]
Marie-Jean Meurs – Professor of Computer Science [Artificial Intelligence]
All the co-organizers are with the Université du Québec à Montréal (UQAM), Canada

Program Committee: (tentative list)
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