

Law and Artificial Intelligence

Legal, ethical and regulatory *Issues of AI*

Call for papers

The Centre for Law and Digital Technologies (eLaw) of Leiden University, the Netherlands, invites you to contribute a chapter in a book on law and artificial intelligence (AI). The book will consist of contributions based on some of Leiden University's SAILS research project's results¹ and your contribution as a leading expert in this area.

Artificial intelligence is rapidly and radically changing the world around us. AI helps us to understand complex and vast amounts of data in many different areas, such as drug discovery, human speech understanding, legal documents interpretation, stock markets prediction, human behavior regulation, and even the creative industry. Developments in AI are essential for the realization of autonomous vehicles, accurate diagnosis, and sophisticated language translation technologies. As such, AI is a great promise to make this world a better place.

This book describes and discusses developments in AI from ethical and legal perspectives. The first part examines what intelligence and artificial intelligence are, how AI technologies work, and which developments can be expected in the near future. Since AI may raise ethical, legal, and societal issues that may call for regulation, the second part investigates whether, and how, AI should be regulated. Some countries are already starting to draft legislation for AI, and the EU is already updating its legislation on product safety in light of AI and the greater interconnectivity of products. However, some authors argue that robot-oriented regulations seem premature, misguided, or even dangerous because robots are at an early stage, and misconceived regulation could hinder the development of such technology, thereby preventing their significant societal benefits. Different legal areas, such as human rights law, criminal law, liability law, and data protection law, may also need adaptation, as AI will not leave indifferent any area of the law. The third part deals with how AI can be used in the legal domain, for instance, in assisting or replacing tasks of lawyers in legal research or even adjudication as it is happening already in China. The fourth part looks into the future, by predicting technological developments, and discussing broader ethical issues that may arise if AI outperforms human beings, in physical or cognitive skills, or both. In these scenarios, free will, individual autonomy, and legal personhood for AI may become relevant topics. More generally, values like privacy, trust, liberty, dignity, and equality may need reconsideration.

We invite contributions focusing on technological, legal, ethical, or social issues of the development and use of AI. Topics are not limited to those mentioned below. We particularly welcome contributions on best practices in different countries. This may concern best practices in regulating AI, in using AI in the legal domain, or any assessment frameworks for AI developments. All papers will be peer-reviewed by our program committee and other independent reviewers (where necessary) and will be published in an edited book with an ISBN. Previously published peer-reviewed papers will also be considered, provided the author or authors are granted a license from the publisher, and the publication information is noted in the contribution.

For each contribution, authors must provide an abstract of 150-250 words and five keywords. Each contribution should contain no more than 15 pages or 7000 words, including references. Longer papers may be allowed upon request. All submissions (both abstracts and full papers) must be in Word (*.doc or *.docx format). All photos, tables and figures must be in .jpg format. Papers must be submitted in the correct template, according to the author guidelines. Only contributions in English are accepted.

¹ SAILS is the Leiden University-wide initiative enabling multidisciplinary collaboration on the use of Artificial Intelligence for society. See more at <https://www.universiteitleiden.nl/en/sails>

Topics

Depending on the submissions, the envisioned set-up of the book is as follows:

Section 1: Introduction, general topics

- Scope and definition – what is intelligence, what is artificial intelligence
- AI technology – types of AI, technological developments
- AI and data science – data collection & data analytics
- Cyber agent technology (non-physical), robotics (physical), cyber physical systems (CPS)
- Typical examples of AI developments and use (IBM Watson, Hanson Robotics Sophia)

Section 2: Regulating AI

- Current legal frameworks framing the use and development of AI
- Legal jurisdiction compared
- Relevant fields of law challenged by AI
- Fundamental rights – human dignity, equal treatment, human enhancement
- Liability law – liability for autonomous systems, errors in data or decision-making
- Criminal law – new types of crime, new criminal investigation methods and evidence
- Privacy and data protection law
- Intellectual Property law
- Consumer law, competition law
- The raise of impact assessments for regulating robotics and AI
- Private standards and their link to policy making

Section 3: Applying AI in law

- Legal tech, AI legal assistance
- AI in courtrooms, AI judicial decision-making
- Quantitative legal predictions
- Enhanced legal research, pattern recognition, IBM Ross
- Sociology of law, nudging, predicting and guiding human behavior

Section 4: Broader consequences of the future of AI

- Technological developments and new applications – what to expect
- Ethical issues
 - Violations of moral values and principles, moral conflicts, new ways of applying moral principles, including privacy and liberty
- Autonomous AI
 - AI outperforming humans (cognitively, physically)
 - Free will for AI
 - Legal protection for AI, legal personhood for AI
- Humanoid robots, human enhancement
 - New social groups, equal treatment, robot rights
 - Privacy, trust, liberty, social segregation, discrimination, chilling effects, deepfakes

These topics are indicative. Submissions with other, related topics are also possible. If in doubt, please contact the editors.

Audience

Because of the speed with which many technological developments take place, it is sometimes difficult for people without a technological background to understand how these technologies work and what impact they may have on their daily lives, their work, or on society in general. This book will attempt to explain the latest technological developments with regard to Artificial Intelligence (AI) in a straightforward manner. The technological background can be of value to academics in other disciplines, such as law, ethics, sociology, politics, and public administration, as well as to other people who may be confronted with the use of AI in their work, particularly people working in the legal domain, including lawyers, judges, law enforcement officers, public prosecutors, lawmakers, and policy advisors. Individuals and businesses with a specific interest in AI use are also part of the targeted audience.

Deadlines

Submission deadline expression of interest: title, author, abstract and keywords:	December 1 st 2020
Submission deadline for full papers:	March 1 st 2021
Notification of acceptance:	May 1 st 2021
Submission of final camera-ready version:	July 1 st 2021

Editors and Publisher

Editors:

- Prof. dr. Bart Custers, Leiden University
- Dr. Eduard Fosch Villaronga, Leiden University

Publisher:

- The intention is to publish this book in the IT & Law Series of Asser Press.² Asser Press is part of Springer.
- This book will be published as a hardcopy
- The aim is to also publish this book open access

Submission

Send submissions to: dr. Eduard Fosch Villaronga: (e.fosch.villaronga@law.leidenuniv.nl) and prof. dr. Bart Custers (b.h.m.custers@law.leidenuniv.nl). Any further questions can be sent to this email address.

Author Guidelines

Author guidelines will be distributed after acceptance of your abstract.

² See <https://www.springer.com/series/8857>