THE CAMBRIDGE HANDBOOK OF THE LAW, ETHICS AND POLICY OF ARTIFICIAL INTELLIGENCE

This informative Handbook provides a comprehensive overview of the legal, ethical, and policy implications of artificial intelligence (AI) and algorithmic systems, with a focus on Europe. As these technologies continue to impact various aspects of our lives, it is crucial to understand and assess the challenges and opportunities they present. Drawing on contributions from experts in various disciplines, this book covers theoretical insights and practical examples of how AI systems are used in society today, as well as exploring the legal and policy instruments governing AI. The interdisciplinary approach of this book makes it an invaluable resource for anyone seeking to gain a deeper understanding of AI's impact on society and how it should be regulated. This title is also available as Open Access on Cambridge Core.

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The Cambridge Handbook of the Law, Ethics and Policy of Artificial Intelligence

Edited by

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CAMBRIDGE

Cambridge University Press & Assessment 978-1-009-36781-3 — The Cambridge Handbook on the Law, Ethics and Policy of Artificial Intelligence Edited by Nathalie A. Smuha Frontmatter More Information



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Cambridge University Press is part of Cambridge University Press & Assessment, a department of the University of Cambridge.

We share the University's mission to contribute to society through the pursuit of education, learning and research at the highest international levels of excellence.

www.cambridge.org Information on this title: www.cambridge.org/9781009367813

DOI: 10.1017/9781009367783

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When citing this work, please include a reference to the DOI 10.1017/9781009367783

First published 2025

A catalogue record for this publication is available from the British Library

A Cataloging-in-Publication data record for this book is available from the Library of Congress

ISBN 978-1-009-36781-3 Hardback

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To the AI Summer School alumni

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in eHealth, innovative technologies, care and enhancement and justice, privacy and profiling, privacy versus public security, ambient technology and autonomy and responsibility, quality of information and credibility of experts, legitimacy, trust, and technology adoption. He currently supervises PhD projects on ethics and law of automation of the workplace, the technological enhancement of emotions, cognitive enhancement of the judiciary, and the concept of accuracy in law. He is an active member of KU Leuven's Ethics Committee on "Dual Use, Military Use and Misuse of Research."

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Karen Yeung joined Birmingham Law School and the University of Birmingham's School of Computer Science as Interdisciplinary Professorial Fellow in Law, Ethics and Informatics in January 2018. Her research has been at the forefront of understanding the challenges associated with the regulation and governance of emerging technologies. Over the course of more than twenty-five years, she has developed unique expertise in the regulation and governance of, and through, new and emerging technologies. Her ongoing work focuses on the legal, ethical, social, and democratic implications of a suite of technologies associated with automation and the "computational turn," including big data analytics, AI (including various forms of machine learning), distributed ledger technologies (including blockchain), and robotics.

Katerina Yordanova, a Bulgarian-qualified lawyer, has over ten years' experience in technology and human rights law. She is currently enriching her extensive practical and academic background as Senior Legal Expert at the KU Leuven Centre for IT

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and IP Law (CiTiP) and is engaged in a PhD focused on legal certainty in regulatory sandboxes for AI. Katerina's expertise covers data protection, cybersecurity, and the nexus between business, human rights, and technology regulation. She has a proven track record in legal research and consultancy for European and Belgian commercial projects, and is adept in contract drafting, IP advisory, and client representation in court. Additionally, Katerina brings educational depth in public international law from Sofia University, an advanced degree from KU Leuven, and a specialized postgraduate qualification from Cambridge University. As a lecturer and speaker at international forums, she disseminates her knowledge and contributes to the legal scholarship with published articles on diverse topics within her field.

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Acknowledgments

The idea for this edited book first arose in the margin of the first edition of the KU Leuven Summer School on the Law, Ethics and Policy of Artificial Intelligence, which I organized in the summer of 2021. Since then, the course has taken place every year, bringing together people from various countries and disciplinary backgrounds to the small town of Leuven. When designing the program, I asked myself which type of course I would have loved to follow as a student, which made it evident from the get-go that the curriculum should be both interdisciplinary and comprehensive in providing an overview of AI's societal implications. Very soon, I was asked if there was a possibility to disseminate the content of the course more broadly as the demand to participate far exceeded the capacity, which led to the start of this open-source project.

A number of people were instrumental in making the Summer School (and hence this book) happen and are thus the first I wish to thank. Sara Van Steyvoort has been the best organizational assistant one could have wished for, in addition to being a fantastic colleague. Sofia Devroe took up the role of academic assistant during the Summer School's first edition, followed by Victoria Hendrickx who brilliantly took up the torch for the subsequent editions. Both of them were an absolute pleasure to work with, and their dedication, kindness, and wit have contributed immensely to the Summer School's success. None of this would have happened without Geert Van Calster, my then doctoral supervisor, who encouraged me to take up this slightly daunting task. In addition, I owe thanks to KU Leuven for enabling me to organize the Summer School, and to the many colleagues at the Faculty of Law, the Institute for AI, and elsewhere who supported this endeavor.

Next, I would like to thank all the authors who have contributed a chapter to this book, namely – in order of appearance – Wannes Meert, Tinne De Laet, Luc De Raedt, Vincent C. Müller, Stefan Buijsman, Michael Klenk, Jeroen van den Hoven, Laurens Naudts, Anton Vedder, Lode Lauwaert, Ann-Katrien Oimann, Gry Hasselbalch, Aimee Van Wynsberghe, Pierre Dewitte, Jan De Bruyne, Wannes Ooms, Friso Bostoen, Evelyne Terryn, Sylvia Martos Marquez, Jozefien Vanherpe, Karen Yeung, Inge Molenaar, Duuk Baten, Imre Bárd, Marthe Stevens, Lidia Dutkiewicz,

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Acknowledgments

Noémie Krack, Aleksandra Kuczerawy, Peggy Valcke, Griet Verhenneman, Katja Langenbucher, Aída Ponce Del Castillo, Simon Taes, Rosamunde Van Brakel, and Katerina Yordanova. Most of them have also been guest lecturers at the Summer School, often for multiple years, and have consolidated the content of their lectures in their contributions. I am very grateful for their time and effort, and for the insights they have shared.

Most important of all, I wish to thank all the alumni of the AI Summer School, to whom this book is dedicated. When starting this program, I could never have imagined what an absolutely wonderful community it would become, full of intellectual curiosity, kindhearted generosity, and thoughtful support. Getting to know them has given me the best possible reason to be hopeful – amidst and despite the many concerns AI poses – that a brighter future is nevertheless achievable when individuals across countries and disciplines join forces to work on it together.