

HUMAN-ROBOT INTERACTION IN LAW AND ITS NARRATIVES

Robots are with us, but law and legal systems are not ready for them. This book identifies the issues posed by human-robot interactions in substantive law, procedural law, and law's narratives, and suggests how to address them. When human-robot interaction results in harm, who or what is responsible? Part I addresses substantive law, including the issues raised by attempts to impose criminal liability on different actors. When robots perceive aspects of an alleged crime, can they be called as a sort of witness? Part II addresses procedural issues raised by human-robot interactions, including evidentiary problems arising out of data generated by robots monitoring humans, and issues of reliability and privacy. Beyond the standard fare of substantive and procedural law, and in view of the conceptual quandaries posed by robots, Part III offers chapters on narrative and rhetoric, suggesting different ways to understand human-robot interactions and how to develop coherent frameworks to do that. This title is available as Open Access on Cambridge Core.

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HUMAN-ROBOT INTERACTION IN LAW AND ITS NARRATIVES

Legal Blame, Procedure, and Criminal Law

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This book is dedicated to Kate Claghorn and Hilda Geiringer, who contributed significantly to the understanding of statistics in central ways that paved the way for others who invented robots, and who each managed, against the odds and despite the challenges of their individual lives, to become a member of the scientific community.



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FOREWORD

Robots are not humans: they are "mere" machines that do as we tell them. They have no "will," no "consciousness" and no autonomy in the sense that humans do. As with dolls and diaries, we may be tempted to attribute a kind of agency to them, "recognizing" their inner mind, believing they understand our language and share our zest for life. As in the case of dolls and diaries, they may trigger our imagination and help us to generate new ideas while interacting with them, though, as with dolls and diaries, we need to emancipate ourselves from naïve beliefs in them being capable of suffering humiliation or joy. It is hard to steer free from, on the one hand, the attribution of human agency to lifeless contraptions that execute complex, mathematically informed programs and, on the other hand, the idea that they are mere tools like hammers, mechanical cars or newspapers. Unlike previous technologies, robots that thrive on machine learning can anticipate our behaviors and – depending on their program – pre-empt us by tweaking the choice architecture that channels our action potential. In that sense, robots are agents, though with "mindless minds."

This is a new chapter in the history of the relationship with our environment. We must learn to deal with the fact that these new types of agents can diminish or enhance our own agency, based on upstream design decisions taken by engineers who are keen on modeling our user behavior, hoping to make their machines ever more effective in steering us in the direction chosen by whoever pays for their design. As data-driven design is fundamentally probabilistic, whoever develops, provides, or deploys these robots takes the risk of harm due to errors, misuse, or unforeseen behaviors, and such risk-taking raises notable questions of guilt, wrongfulness and causality.

The release of ChatGPT has demonstrated how fluent our robot parrots have become and how easily they can convince us of the salience of their output. The release of large language models also reminds us



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of the extent to which these models succumb to producing what Harry Frankfurt coined as "bullshit." Frankfurt distinguished bullshit from lying, explaining that whoever lies still cares about the truth, whereas those who bullshit have no interest in the truth, only in serving their own interests. Machines have no interests, not even in the truth. In that sense, their hallucinations are beyond both lying and bullshit. But when discussing criminal liability, the law of evidence, and criminal procedure, it is important to remember that even if positive law could very well attribute legal personhood to robots, there cannot be moral personhood for systems incapable of anything beyond the execution of – possibly highly complex and sophisticated – instructions.

The lack of moral personhood of robots highlights the well-known issues about who should be made liable for the harm caused by the potentially unpredictable behavior of these systems. These issues, in turn, confront us with the difference between criminal law, private law, and administrative and constitutional law. Whereas the attribution of private law liability to an AI system could at some point make sense, provided that those who took the risk of harming or diminishing others are not left off the hook, the attribution of criminal law liability is another matter. Blaming a system that has no intentionality in the sense of Brentano, i.e., intentionality as awareness of the world, would disrupt the foundational framework that has informed criminal law in constitutional democracies. Data-driven robots process data that serve as a proxy for the world they need to navigate, but they have no own stake in that world and no way of sensing, thinking, and acting as we do (which may raise some red flags regarding some of the definitions proposed in this volume). They have been programmed to model the distribution of the data, whether based on examples (supervised learning), on pattern recognition (unsupervised learning), or on goals defined in a way that a machine can execute (reinforcement learning). In the latter case, their output can be further "aligned" with the intended outcome by way of prompt engineering (reinforcement learning with human feedback). None of this, however, makes them aware of their environment. They can only process the data they are being trained on, following the mathematics that defines their model construction. The ingenuity, imagination, and novelty of their operations and output is the result of human investment; it is the developers, providers, deployers, and end-users who create, shape, and reconfigure robotic systems.

This edited volume takes the challenge of mindless, data-driven agency seriously, seeking to reconsider key tenets of substantive and



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procedural criminal law. Moreover, this volume reaches beyond an inquiry into the fitness of doctrinal intricacies that were developed for another era, where law was text-driven if anything. The final part devotes keen attention to how we can explain to ourselves what the role of robots can and should be in the context of constitutional democracies and how this implicates the criminal law. All this engages the pivotal question of what world we want to live in, share, and reconstruct, turning the volume into a crucial intervention in the debate on how criminal law should respond to the integration of robots in everyday life. With a star line-up of authors, coming from a diversity of perspectives to scrutinize the same pressing issue, the reader will find themselves both enlightened and perplexed, on the verge of a better understanding of the complex underlying issues and real-world challenges posed by the design and the deployment of data-driven robots.

Professor Dr. Mireille Hildebrandt



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To better envision a world with human–robot interactions, we enlisted Bartosz Mamak to work with authors and produce an illustration to accompany the chapters. Thanks to Kamil Mamak, a post-doctoral researcher at the Department of Practical Philosophy at the University of Helsiński and an Assistant Professor of Criminal Law at Jagiellonian University, we were able to bridge multidisciplinary gaps and language challenges. We are grateful to the artist and the authors for working together in a non-traditional way to include visual expressions of key concepts offered by the book, and to the artist for the book cover.

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ABBREVIATIONS

AAVE African American Vernacular English

ADR alternative dispute resolution
ADS automated driving system
AI artificial intelligence

AIG American International Group AOT Advanced Osteotomy Tools

API First Additional Protocol to the Geneva Conventions
A*STAR Agency for Science, Technology and Research
ATR autonomous or automatic target recognition

AV autonomous vehicle AW autonomous weapon BCG Boston Consulting Group

CARLO Cold Ablation Robot-guided Laser Osteotome

CARTS Committee on Autonomous Road Transport for Singapore CCR corporate criminal responsibility/criminal responsibility of

corporations

CCTV closed-circuit television

CEN Comité Européen de Normalisation (European Committee for

Standardization)

CENELEC European Committee for Electrotechnical Standardization

CEO Chief Executive Officer

CJEU Court of Justice of the European Union

COMPAS Correctional Offender Management Profiling for Alternative

Sanctions

CCP Code of Criminal Procedure
CrimPC Criminal Procedure Code
CSLI cell site location information
DNA deoxyribonucleic acid

DSSAD Data Storage System for Automated Driving ECHR European Convention on Human Rights

ECLI European Case Law Identifier
ECtHR European Court of Human Rights

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EDR Event Data Recorder

ENFSI European Network of Forensic Science Institutes

ESI electronically stored information

ETSI European Telecommunications Standards Institute

EU European Union

FISA Foreign Intelligence Surveillance Act

FMH Code of Conduct of the Swiss Medical Association

GAO Government Accountability Office GDPR General Data Protection Regulation

GPS Global Positioning System
HCDR historical call data records
HMI human-machine interface
HRI human-robot interactions
ICC International Criminal Court
ICL international criminal law

IEEE Institute of Electrical and Electronic Engineers

IHL international humanitarian law

IoT Internet of Things
IP internet protocol

IRS Internal Revenue Service

ISO International Organization for Standardization

IT information technology
LAPD Los Angeles Police Department
LED Law Enforcement Directive
LTA Land Transport Authority
MedBG Medical Professions Act
MHC meaningful human control

ML machine learning

MoT Ministry of Transport (Singapore)

MPC Model Penal Code MRT Mass Rapid Transit

NFI Netherlands Forensic Institute

NHTSA National Highway Traffic Safety Administration (US)

NTSB National Transportation Safety Board
NTU Nanyang Technological University
NTUC National Trades Union Congress
NUS National University of Singapore
NYPD New York Police Department

OBD On-Board Diagnostics

OEDR Object and Event Detection and Response

RFID radio frequency identification RISC Recidive inschattings schalen



XXXIX LIST OF ABBREVIATIONS XXXIX

robo-witness robot witness

Rome Statute Rome Statute of the International Criminal Court

SAVI Singapore Autonomous Vehicle Initiative

SCC Swiss Criminal Code SDV self-driving vehicle

SMRT Singapore Mass Rapid Transport STAR Smart Tissue Autonomous Robot

StGB Strafgesetzbuch (German Criminal Code)

TPA Therapeutic Products Act

UK United Kingdom
UN United Nations

UNECE UN Economic Commission for Europe
UNIDIR UN Institute for Disarmament Research

US United States

USA United States of America
VIN vehicle identification number

VIPER Video Interactive Patrol Enhancement Response

VPN virtual private network

Wjsg Justice and Prosecution Data Act (Wet justitiële en strafvorderlijke

gegevens)

Wpg The Police Data Act (Wet politiegegevens)