

A LEGAL THEORY FOR AUTONOMOUS ARTIFICIAL AGENTS

SAMIR CHOPRA and LAURENCE F. WHITE

A Legal Theory For Autonomous Artificial Agents

**Anne Gerdes, Mark Coeckelbergh, David
Gunkel**



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A Legal Theory for Autonomous Artificial Agents Samir Chopra, Laurence F. White, 2011-07-18 What legal status should be granted to artificial agents

Liabilities and Modern Artificial Intelligence Estelle Wallingford, 2025-09-09 This book addresses how private law liability should be assigned in contexts where modern forms of AI are deployed AI as a technology holds the potential to radically improve global society yet the pace of its advancement far outstrips the pace at which legal systems are responding This book explores legal approaches to AI how AI should be legally characterised and proposes an overarching theoretical liability framework termed the Tri Phase AI Liability Model This framework is flexible in nature and considers the type of AI the context in which it is deployed who has the most control over the AI system and the capacity of a deployed AI In response this book brings greatly needed clarity to the evolving landscape of AI governance aiding in resolving existing and emerging private law challenges This book is a timely response to the urgent need to resolve private law liabilities and will appeal to legal professionals policy makers and scholars looking to understand or contribute to the current and future governance of AI within private law

Algo Bots and the Law Gregory Scopino, 2020-10-15 An exploration of how financial market laws and regulations can and should govern the use of artificial intelligence

The Legality and Accountability of Autonomous Weapon Systems Afonso Seixas-Nunes, 2022-05-19 A comprehensive definition of autonomous weapons systems and their operation and what happens when they cause violations of international law

Research Handbook on Human Rights and Digital Technology Ben Wagner, Matthias C. Kettemann, Kilian Vieth, In a digitally connected world the question of how to respect protect and implement human rights has become unavoidable This contemporary Research Handbook offers new insights into well established debates by framing them in terms of human rights It examines the issues posed by the management of key Internet resources the governance of its architecture the role of different stakeholders the legitimacy of rule making and rule enforcement and the exercise of international public authority over users Highly interdisciplinary its contributions draw on law political science international relations and even computer science and science and technology studies

Artificial Intelligence, Humans and the Law Henrik Palmer Olsen, Jacob Livingston Slosser, Salome Addo Ravn, Johan Eddebo, Jonas Hultin Rosenberg, 2025-10-31 This book takes up the contentious issue of artificial intelligence AI and more specifically the evolving nature of AI mindedness as a legal entity in society With the increasing potential of AI suggested by the recent surge in creative and administrative tools and large language models there is a growing concern about the ethical and legal implications of incorporating AI into society As these systems become even more powerful and their ability to mimic human output grows the question of whether and how to attribute mental states to AI even in its most nascent form has become a pressing concern It is for example unclear what kind of mind AI might be capable of and therefore what the proper legal analogy might be for how we attribute reasoning capability intent responsibility liability agency and so on to it This book contributes to this new and important area by

bringing together front line research from diverse fields on the topic of understanding AI mindedness and how it and our relationship to it might be regulated Through a collection of chapters written by experts from law public administration tort psychoanalysis philosophy linguistics computer science and political theory this volume offers an insightful examination of current research theoretical frameworks and practical applications that are shaping the AI human relationship This book will be of considerable interest to scholars and researchers working in legal theory socio legal studies law and technology and science and technology studies

Toward a Conceptual Network for the Private Law of Artificial Intelligence Paweł Księżak, Sylwia Wojtczak, 2023-01-16 This book provides a set of proposals for the new conceptual network required in order to establish civil law rules for a world permeated by Artificial Intelligence These proposals are intended by their authors to push the debate on the new civil law forward In spite of the natural conservatism of jurists some innovative or even futuristic ideas are called for also because the future even this not so distant one is difficult to foresee Paradoxically and unlike in the past this lack of knowledge must not stop us from planning If it does humankind may as some pessimists already claim lose its chance to win the battle for control of the world The rise and expansion of Artificial Intelligence and robotics in recent years has highlighted a pressing need to create a suitable legal framework for this new phenomenon The debate on the subject although wide ranging and involving many new legal documents is still quite general and preliminary in nature although these preparatory works illustrate the very real need to develop appropriate new civil law arrangements It is exactly the branch of private law where the necessity of these new rules appears to be the most imperative Autonomous vehicles medical robots and expertise software raise fundamental questions on aspects of civil liability such as culpability whereas the growth in popularity of automated intelligent software systems for concluding contracts requires a new approach to many fundamental and deeply rooted elements of contract law e g consciousness intent error deception interpretation of contracts and good faith Ruling on these specific matters demands the identification and clarification of certain key points which shall become the foundation for constructing AI robot civil law

The Impact of AI Innovation on Financial Sectors in the Era of Industry 5.0 Irfan, Mohammad, Elmogy, Mohammed, Shabri Abd. Majid, M., El-Sappagh, Shaker, 2023-09-05 In the dynamic and ever changing financial landscape the seamless integration of artificial intelligence AI and machine learning ML has presented unprecedented challenges for the banking and finance industry As we embrace the era of Industry 5.0 financial institutions find themselves confronted with intricate decisions pertaining to investments macroeconomic analysis and credit evaluation necessitating innovative technologies to navigate this complexity Additionally the mounting volume of financial transactions calls for efficient data processing and analysis Considering these pressing concerns scholars academicians and industry practitioners are eagerly seeking comprehensive insights into the transformative potential of AI and ML specifically in bolstering resilience fostering sustainable development and adopting human centric approaches within the financial sector Offering a compelling solution to these critical challenges The Impact

of AI Innovation on Financial Sectors in the Era of Industry 5.0 edited by esteemed scholars Mohammad Irfan Mohammed Elmogy M Shabri Abd Majid and Shaker El Sappagh embark on an in depth exploration of the multifaceted functions and applications of AI and ML algorithms in the realm of finance With a keen focus on Industry 5.0 principles such as resilience human centricity and sustainable development this comprehensive compendium presents a collection of groundbreaking research papers that unveil the remarkable potential of AI ML technologies in revolutionizing the financial services industry By catering to a diverse audience comprising researchers academicians industrialists investors and regulatory bodies this book actively invites contributions from industry practitioners and scholars facilitating ongoing discussions on the efficacy of ML algorithms in efficiently processing vast financial data As the financial landscape charts an ambitious course into Industry 5.0 the book emerges as an indispensable resource empowering the industry with transformative advancements that will indelibly shape the future of finance

Human Law and Computer Law: Comparative Perspectives Mireille Hildebrandt, Jeanne Gaakeer, 2013-05-23 The focus of this book is on the epistemological and hermeneutic implications of data science and artificial intelligence for democracy and the Rule of Law How do the normative effects of automated decision systems or the interventions of robotic fellow beings compare to the legal effect of written and unwritten law To investigate these questions the book brings together two disciplinary perspectives rarely combined within the framework of one volume One starts from the perspective of code and law and the other develops from the domain of law and literature Integrating original analyses of relevant novels or films the authors discuss how computational technologies challenge traditional forms of legal thought and affect the regulation of human behavior Thus pertinent questions are raised about the theoretical assumptions underlying both scientific and legal practice

The Laws of Robots Ugo Pagallo, 2013-05-16 This book explores how the design construction and use of robotics technology may affect today's legal systems and more particularly matters of responsibility and agency in criminal law contractual obligations and torts By distinguishing between the behaviour of robots as tools of human interaction and robots as proper agents in the legal arena jurists will have to address a new generation of hard cases General disagreement may concern immunity in criminal law e.g. the employment of robot soldiers in battle personal accountability for certain robots in contracts e.g. robo traders much as clauses of strict liability and negligence based responsibility in extra contractual obligations e.g. service robots in tort law Since robots are here to stay the aim of the law should be to wisely govern our mutual relationships

Should Robots Have Standing? The Moral and Legal Status of Social Robots Anne Gerdes, Mark Coeckelbergh, David Gunkel, 2022-07-07

Cultural Legal Studies of Science Fiction Alex Green, Mitchell Travis, Kieran Tranter, 2024-10-28 This book presents and engages the world building capacity of legal theory through cultural legal studies of science and speculative fictions In these studies the contributors take seriously the legal world building of science and speculative fiction to reveal animate and critique legal wisdom juris prudence Following a common approach in cultural legal studies the contributors engage directly and in detail

with specific cultural texts novels television films and video games in order to explore a range of possible legal futures The book is organized in three parts first the contextualisation of science and speculative fiction as jurisprudence second the temporality of law and legal theory and third the analysis of specific science and speculative fictions Throughout the contributors reveal the way in which law as nomos builds normative universes through the narration of a future This book will appeal to scholars and students with interests in legal theory cultural legal studies law and the humanities and law and literature Robotics and Well-Being Maria Isabel Aldinhas Ferreira, João Silva Sequeira, Gurvinder Singh Virk, Mohammad Osman Tokhi, Endre E. Kadar, 2019-04-16 This book highlights some of the most pressing safety ethical legal and societal issues related to the diverse contexts in which robotic technologies apply Focusing on the essential concept of well being it addresses topics that are fundamental not only for research but also for industry and end users discussing the challenges in a wide variety of applications including domestic robots autonomous manufacturing personal care robots and drones

Research Handbook in Data Science and Law Vanessa Mak, Eric Tjong Tjin Tai, Anna Berlee, 2018-12-28 The use of data in society has seen an exponential growth in recent years Data science the field of research concerned with understanding and analyzing data aims to find ways to operationalize data so that it can be beneficially used in society for example in health applications urban governance or smart household devices The legal questions that accompany the rise of new data driven technologies however are underexplored This book is the first volume that seeks to map the legal implications of the emergence of data science It discusses the possibilities and limitations imposed by the current legal framework considers whether regulation is needed to respond to problems raised by data science and which ethical problems occur in relation to the use of data It also considers the emergence of Data Science and Law as a new legal discipline

Research Handbook on Methods and Models of Competition Law Deborah Healey, Michael Jacobs, Rhonda L. Smith, 2020-11-27 This comprehensive Handbook illuminates the objectives and economics behind competition law It takes a global comparative approach to explore competition law and policy in a range of jurisdictions with differing political economies legal systems and stages of development A set of expert international contributors examine the operation and enforcement of competition law around the world in order to globalize discussions surrounding the foundational issues of this topic In doing so they not only reveal the range of approaches to competition law but also identify certain basic economic concepts and types of anticompetitive conduct that are at the core of competition law **The Law of the Future and the Future of Law** Sam Muller, Stavros Zouridis, Morly Frishman, Laura Kistemaker, 2012-10-31 Rights of robots a closer collaboration between law and the health sector the relation between justice and development these are some of the topics covered in The Law of the Future and the Future of Law Volume II The central question is how will law evolve in the coming years This book gives you a rich array of visions on current legal trends The readable think pieces offer indications of law's cutting edge The book brings new material that is not available in the first volume of The Law of the Future and the Future of

Law published in June 2011 Among the authors in this volume are William Twining Emeritus Quain Professor of Jurisprudence University College London David Eagleman Director Initiative on Neuroscience and Law Hassane Cisse Deputy General Counsel The World Bank Gabrielle Marceau Counsellor World Trade Organisation Benjamin Odoki Chief Justice Republic of Uganda Martijn W Scheltema Attorney at law Pels Rijcken and Droogleever Fortuijn Austin Onuoha Founder The Africa Centre for Corporate Responsibility Lokke Moerel Partner De Brauw Blackstone Westbroek S I Strong Senior Fellow Center for the Study of Dispute Resolution Jan M Smits Chair of European Private Law Maastricht University

A *Commercial Law of Privacy and Security for the Internet of Things* Stacy-Ann Elvy, 2021-07-29 Elvy explores the consumer ramifications of the Internet of Things through the lens of the commercial law of privacy and security

The REGTECH Book Janos Barberis, Douglas W. Arner, Ross P. Buckley, 2019-08-19 The Regulatory Technology Handbook The transformational potential of RegTech has been confirmed in recent years with US 1 2 billion invested in start ups 2017 and an expected additional spending of US 100 billion by 2020 Regulatory technology will not only provide efficiency gains for compliance and reporting functions it will radically change market structure and supervision This book the first of its kind is providing a comprehensive and invaluable source of information aimed at corporates regulators compliance professionals start ups and policy makers The REGTECH Book brings into a single volume the curated industry expertise delivered by subject matter experts It serves as a single reference point to understand the RegTech eco system and its impact on the industry Readers will learn foundational notions such as The economic impact of digitization and datafication of regulation How new technologies Artificial Intelligence Blockchain are applied to compliance Business use cases of RegTech for cost reduction and new product origination The future regulatory landscape affecting financial institutions technology companies and other industries Edited by world class academics and written by compliance professionals regulators entrepreneurs and business leaders the RegTech Book represents an invaluable resource that paves the way for 21st century regulatory innovation

The Routledge Social Science Handbook of AI Anthony Elliott, 2021-07-12 The Routledge Social Science Handbook of AI is a landmark volume providing students and teachers with a comprehensive and accessible guide to the major topics and trends of research in the social sciences of artificial intelligence AI as well as surveying how the digital revolution from supercomputers and social media to advanced automation and robotics is transforming society culture politics and economy The Handbook provides representative coverage of the full range of social science engagements with the AI revolution from employment and jobs to education and new digital skills to automated technologies of military warfare and the future of ethics The reference work is introduced by editor Anthony Elliott who addresses the question of relationship of social sciences to artificial intelligence and who surveys various convergences and divergences between contemporary social theory and the digital revolution The Handbook is exceptionally wide ranging in span covering topics all the way from AI technologies in everyday life to single purpose robots throughout home and work life and from the

mainstreaming of human machine interfaces to the latest advances in AI such as the ability to mimic and improve on many aspects of human brain function A unique integration of social science on the one hand and new technologies of artificial intelligence on the other this Handbook offers readers new ways of understanding the rise of AI and its associated global transformations Written in a clear and direct style the Handbook will appeal to a wide undergraduate audience The Future of the Law of Contract Michael Furmston,2020-05-10 The Future of the Law of Contract brings together an impressive collection of essays on contract law Taking a comparative approach the aim of the book is to address how the law of contract will develop over the next 25 years as well as considering the ways in which changes to the way that contracts are made will affect the law Topics include good faith objectivity exclusion clauses economic duress variation of contract contract and privacy law in a digital environment technological change Choice of Court Agreements and Islamic finance contracts The chapters are written by leading academics from England Australia Canada the United States Singapore and Malaysia As such this collection will be of global interest and importance to professionals academics and students of contract law

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