Privacy Due Process And The Computational Turn Th

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Moral, Ethical, and Social Dilemmas in the Age of Technology: Theories and Practice Luppicini, Rocci 2013-02-28 Our social, educational, professional, and political ethics play a significant role in every aspect of our life. As technology continues to influence our society, these principles needs to be valued. Moral, Ethical, and Social Dilemmas in the Age of Technology: Theories and Practice highlights the innovations and developments in the ethical features of technology in society. This comprehensive collection brings together research in the areas of computer, engineering, and biotechnical ethics. These theoretical studies and innovative methodologies are essential for researchers, practitioners and philosophers.

Redesigning Organizations Denise Feldner 2019-12-11 This book offers readers a deeper understanding of the Cyberspace, of how institutions and industries are reinventing themselves, helping them excel in the transition to a fully digitally connected global economy. Though technology plays a key part in this regard, societal acceptance is the most important underlying condition, as it poses pressing challenges that cut across companies, developers, governments and workers. The book explores the challenges and opportunities involved, current and potential future concepts, critical reflections and best practices. It addresses connected societies, new opportunities for governments, the role of trust in digital networks, and future education networks. In turn, a number of representative case studies demonstrate the current state of development in practice.

Toward Permeable Boundaries of Organizations? Leopold Ringel 2018-10-17 The classical concept of organizations as solitary 'walled-in' actors with clear operational boundaries is increasingly being challenged. This volume examines why, examines the impact of these changes on organizations and offers conceptual and empirical insights.

Is Law Computable? Simon Deakin 2020-11-26 What does computable law mean for the autonomy, authority, and legitimacy of the legal system? Are we witnessing a shift from Rule of Law to a new Rule of Technology? Should we even build these things in the first place? This unique volume collects original papers by a group of leading international scholars to address some of the fascinating questions raised by the encroachment of Artificial Intelligence (AI) into more aspects of legal process, administration, and culture. Weighing near-term benefits against the longer-term, and potentially path-dependent, implications of replacing human legal authority with computational systems, this volume pushes back

against the more uncritical accounts of AI in law and the eagerness of scholars, governments, and LegalTech developers, to overlook the more fundamental - and perhaps 'bigger picture' - ramifications of computable law. With contributions by Simon Deakin, Christopher Markou, Mireille Hildebrandt, Roger Brownsword, Sylvie Delacroix, Lyria Bennet Moses, Ryan Abbott, Jennifer Cobbe, Lily Hands, John Morison, Alex Sarch, and Dilan Thampapillai, as well as a foreword from Frank Pasquale.

Privacy and Power Russell A. Miller 2017-02-23 This book documents and explains the differences in the ways Americans and Europeans approach the issues of privacy and intelligence gathering.

Progress in Science, Progress in Society Alain Tressaud 2017-12-30 This book addresses current societal debates around the globe. Written by respected researchers from France, Germany, Belgium, Denmark, Spain, Portugal and Italy, the chapters are based on presentations given at a conference organized by the European Academy of Sciences, in partnership with the Royal Academy of Belgium and French Academy of Sciences, in Brussels (Belgium) in November 2016. The book approaches science and society from a perspective of progress. Does progress in science ultimately translate into progress in society? How can we ensure that scientific progress becomes both materially and intellectually beneficial for society, including people who are far away from or socially excluded from it? Progress is a common feature of science and of human societies. There is no doubt that one of the driving forces of the material and intellectual progress of mankind has been science and technology. However, these are not the only forces acting on human history, so that the role of science and technology is not always fully recognized and sometimes even rejected. The various chapters of this book cover many aspects of these issues, arriving at valuable new insights.

Algorithms and Subjectivity Eran Fisher 2022-01-27 In this thought-provoking volume, Eran Fisher interrogates the relationship between algorithms as epistemic devices and modern notions of subjectivity. Over the past few decades, as the instrumentalization of algorithms has created knowledge that informs our decisions, preferences, tastes, and actions, and the very sense of who we are, they have also undercut, and arguably undermined, the Enlightenment-era ideal of the subject. Fisher finds that as algorithms enable a reality in which knowledge is created by circumventing the participation of the self, they also challenge contemporary notions of subjectivity. Through four case-studies, this book provides an empirical and theoretical investigation of this transformation, analyzing how algorithmic knowledge differs from the ideas of critical knowledge which emerged during modernity – Fisher argues that algorithms create a new type of knowledge, which in turn changes our fundamental sense of self and our concept of subjectivity. This book will make a timely contribution to the social study of algorithms and will prove especially valuable for scholars working at the intersections of media and communication studies, internet studies, information studies, the sociology of technology, the philosophy of technology, and science and technology studies.

The New Media of Surveillance Shoshana Magnet 2013-09-13 The spread of new surveillance technologies is an issue of major concern for democratic societies. More ubiquitous and sophisticated monitoring techniques raise profound questions for the very possibility of individual autonomy and democratic government. Innovations in surveillance systems require equally innovative approaches for analyzing their social and political implications, and the field of critical communication studies is uniquely equipped to provide fresh insights. This book brings together the work of a number of critical communication scholars who take innovative approaches to examining the surveillance dimensions of new media technologies. The essays included in this volume focus on interactive networks, computer generated imagery, biometrics, and intelligent transport systems as sites where communication and surveillance have become virtually inseparable social processes. This book was originally published as a

special issue of The Communication Review.

Moral Issues in Intelligence-led Policing Helene Oppen Gundhus 2017-09-27 The core baseline of Intelligence-led Policing is the aim of increasing efficiency and quality of police work, with a focus on crime analysis and intelligence methods as tools for informed and objective decisions both when conducting targeted, specialized operations and when setting strategic priorities. This book critically addresses the proliferation of intelligence logics within policing from a wide array of scholarly perspectives. It considers questions such as: How are precautionary logics becoming increasingly central in the dominant policing strategies? What kind of challenges will this move entail? What does the criminalization of preparatory acts mean for previous distinctions between crime prevention and crime detection? What are the predominant rationales behind the proactive use of covert cohesive measures in order to prevent attacks on national security? How are new technological measures, increased private partnerships and international cooperation challenging the core nature of police services as the main providers of public safety and security? This book offers new insights by exploring dilemmas, legal issues and questions raised by the use of new policing methods and the blurred and confrontational lines that can be observed between prevention, intelligence and investigation in police work.

Algorithmic Life Louise Amoore 2015-12-22 This book critically explores forms and techniques of calculation that emerge with digital computation, and their implications. The contributors demonstrate that digital calculative devices matter beyond their specific functions as they progressively shape, transform and govern all areas of our life. In particular, it addresses such questions as: How does the drive to make sense of, and productively use, large amounts of diverse data, inform the development of new calculative devices, logics and techniques? How do these devices, logics and techniques affect our capacity to decide and to act? How do mundane elements of our physical and virtual existence become data to be analysed and rearranged in complex ensembles of people and things? In what ways are conventional notions of public and private, individual and population, certainty and probability, rule and exception transformed and what are the consequences? How does the search for 'hidden' connections and patterns change our understanding of social relations and associative life? Do contemporary modes of calculation produce new thresholds of calculability and computability, allowing for the improbable or the merely possible to be embraced and acted upon? As contemporary approaches to governing uncertain futures seek to anticipate future events, how are calculation and decision engaged anew? Drawing together different strands of cutting-edge research that is both theoretically sophisticated and empirically rich, this book makes an important contribution to several areas of scholarship, including the emerging social science field of software studies, and will be a vital resource for students and scholars alike.

Law, Obligation, Community Daniel Matthews 2018-06-27 Against an ever-expanding and diversifying 'rights talk', this book re-opens the question of obligation from not only legal but also ethical, sociological and political perspectives. Its premise is that obligation has a primacy ahead of rights, because rights attach to practices and modes of being that are already saturated with obligations. Obligations thus lie at the core not just of law but of community. Yet the distinctive meanings, range and situations of obligation have tended to remain under-theorised in legal scholarship. In response, this book examines the sense in which we are multiply 'bound beings', to law and legal institutions, as much as we are to place, community, memory and the various social institutions that give shape to collective life. Sharing this set of concerns, each of the international group of scholars contributing to this volume traces the specificity of the binding force of obligations, their techniques and modes of expression, as well as their centrally important role in giving form to lawful relations. Together they provide an innovative and challenging contribution to legal scholarship: one that will also be of relevance to those working in politics, philosophy

and social theory.

Harvard Law Review 2013

Artificial Intelligence, Computational Modelling and Criminal Proceedings Serena Quattrocolo 2020-08-27 This book discusses issues relating to the application of AI and computational modelling in criminal proceedings from a European perspective. Part one provides a definition of the topics. Rather than focusing on policing or prevention of crime – largely tackled by recent literature – it explores ways in which AI can affect the investigation and adjudication of crime. There are two main areas of application: the first is evidence gathering, which is addressed in Part two. This section examines how traditional evidentiary law is affected by both new ways of investigation – based on automated processes (often using machine learning) – and new kinds of evidence, automatically generated by AI instruments. Drawing on the comprehensive case law of the European Court of Human Rights, it also presents reflections on the reliability and, ultimately, the admissibility of such evidence. Part three investigates the second application area: judicial decision-making, providing an unbiased review of the meaning, benefits, and possible long-term effects of 'predictive justice' in the criminal field. It highlights the prediction of both violent behaviour, or recidivism, and future court decisions, based on precedents. Touching on the foundations of common law and civil law traditions, the book offers insights into the usefulness of 'prediction' in criminal proceedings.

Group Privacy Linnet Taylor 2016-12-28 The goal of the book is to present the latest research on the new challenges of data technologies. It will offer an overview of the social, ethical and legal problems posed by group profiling, big data and predictive analysis and of the different approaches and methods that can be used to address them. In doing so, it will help the reader to gain a better grasp of the ethical and legal conundrums posed by group profiling. The volume first maps the current and emerging uses of new data technologies and clarifies the promises and dangers of group profiling in real life situations. It then balances this with an analysis of how far the current legal paradigm grants group rights to privacy and data protection, and discusses possible routes to addressing these problems. Finally, an afterword gathers the conclusions reached by the different authors and discuss future perspectives on regulating new data technologies.

Reforming European Data Protection Law Serge Gutwirth 2014-11-17 This book on privacy and data protection offers readers conceptual analysis as well as thoughtful discussion of issues, practices, and solutions. It features results of the seventh annual International Conference on Computers, Privacy, and Data Protection, CPDP 2014, held in Brussels January 2014. The book first examines profiling, a persistent core issue of data protection and privacy. It covers the emergence of profiling technologies, on-line behavioral tracking, and the impact of profiling on fundamental rights and values. Next, the book looks at preventing privacy risks and harms through impact assessments. It contains discussions on the tools and methodologies for impact assessments as well as case studies. The book then goes on to cover the purported trade-off between privacy and security, ways to support privacy and data protection, and the controversial right to be forgotten, which offers individuals a means to oppose the often persistent digital memory of the web. Written during the process of the fundamental revision of the current EU data protection law by the Data Protection Package proposed by the European Commission, this interdisciplinary book presents both daring and prospective approaches. It will serve as an insightful resource for readers with an interest in privacy and data protection.

On the Cognitive, Ethical, and Scientific Dimensions of Artificial Intelligence Don Berkich 2019-01-28 This edited volume explores the intersection between philosophy and computing. It features work presented at the 2016 annual meeting of the International Association for Computing and Philosophy. The 23 contributions to this volume neatly represent a cross section of 40 papers, four keynote addresses, and eight symposia as they cut across six distinct research agendas. The volume begins with foundational studies in computation and information, epistemology and philosophy of science, and logic. The contributions next examine research into computational aspects of cognition and philosophy of mind. This leads to a look at moral dimensions of man-machine interaction as well as issues of trust, privacy, and justice. This multi-disciplinary or, better yet, a-disciplinary investigation reveals the fruitfulness of erasing distinctions among and boundaries between established academic disciplines. This should come as no surprise. The computational turn itself is a-disciplinary and no former discipline, whether scientific, artistic, or humanistic, has remained unchanged. Rigorous reflection on the nature of these changes opens the door to inquiry into the nature of the world, what constitutes our knowledge of it, and our understanding of our place in it. These investigations are only just beginning. The contributions to this volume make this clear: many encourage further research and end with open questions.

Information, Freedom and Property Mireille Hildebrandt 2016-07-01 This book addresses issues on the nexus of freedom of and property in information, while acknowledging that both hiding and exposing information may affect our privacy. It inquires into the physics, the technologies, the business models, the governmental strategies and last but not least the legal frameworks concerning access, organisation and control of information. It debates whether it is in the very nature of information to be either free or monopolized, or both. Analysing upcoming power structures, new types of colonization and attempts to replace legal norms with techno-nudging, this book also presents the idea of an infra-ethics capable of pre-empting our pre-emption. It discusses the interrelations between open access, the hacker ethos, the personal data economy, and freedom of information, highlighting the ephemeral but pivotal role played by information in a data-driven society. This book is a must-read for those working on the contemporary dimensions of freedom of information, data protection, and intellectual property rights.

Privacy, Due Process and the Computational Turn Mireille Hildebrandt 2013-06-03 Privacy, Due process and the Computational Turn: The Philosophy of Law Meets the Philosophy of Technology engages with the rapidly developing computational aspects of our world including data mining, behavioural advertising, iGovernment, profiling for intelligence, customer relationship management, smart search engines, personalized news feeds, and so on in order to consider their implications for the assumptions on which our legal framework has been built. The contributions to this volume focus on the issue of privacy, which is often equated with data privacy and data security, location privacy, anonymity, pseudonymity, unobservability, and unlinkability. Here, however, the extent to which predictive and other types of data analytics operate in ways that may or may not violate privacy is rigorously taken up, both technologically and legally, in order to open up new possibilities for considering, and contesting, how we are increasingly being correlated and categorizedin relationship with due process – the right to contest how the profiling systems are categorizing and deciding about us.

The Digital Republic Jamie Susskind 2022-07-05 From one of the leading intellectuals of the digital age, The Digital Republic is the definitive guide to the great political question of our time: how can freedom and democracy survive in a world of powerful digital technologies? A Financial Times "Book to Read" in 2022 Not long ago, the tech industry was widely admired, and the internet was regarded as a tonic for freedom and democracy. Not anymore. Every day, the headlines blaze with reports of racist algorithms, data leaks, and social media platforms festering with falsehood and hate. In The Digital Republic, acclaimed author Jamie Susskind argues that these problems are not the fault of a few bad apples at the

top of the industry. They are the result of our failure to govern technology properly. The Digital Republic charts a new course. It offers a plan for the digital age: new legal standards, new public bodies and institutions, new duties on platforms, new rights and regulators, new codes of conduct for people in the tech industry. Inspired by the great political essays of the past, and steeped in the traditions of republican thought, it offers a vision of a different type of society: a digital republic in which human and technological flourishing go hand in hand.

Law, Technology and Society Roger Brownsword 2019-02-28 This book considers the implications of the regulatory burden being borne increasingly by technological management rather than by rules of law. If crime is controlled, if human health and safety are secured, if the environment is protected, not by rules but by measures of technological management—designed into products, processes, places and so on—what should we make of this transformation? In an era of smart regulatory technologies, how should we understand the 'regulatory environment', and the 'complexion' of its regulatory signals? How does technological management sit with the Rule of Law and with the traditional ideals of legality, legal coherence, and respect for liberty, human rights and human dignity? What is the future for the rules of criminal law, torts and contract law—are they likely to be rendered redundant? How are human informational interests to be specified and protected? Can traditional rules of law survive not only the emergent use of technological management but also a risk management mentality that pervades the collective engagement with new technologies? Even if technological management is effective, is it acceptable? Are we ready for rule by technology? Undertaking a radical examination of the disruptive effects of technology on the law and the legal mind-set, Roger Brownsword calls for a triple act of re-imagination: first, re-imagining legal rules as one element of a larger regulatory environment of which technological management is also a part; secondly, re-imagining the Rule of Law as a constraint on the arbitrary exercise of power (whether exercised through rules or through technological measures); and, thirdly, re-imagining the future of traditional rules of criminal law, tort law, and contract law.

Rethinking Law, Regulation, and Technology Brownsword, Roger 2022-03-04 This insightful book presents a radical rethinking of the relationship between law, regulation, and technology. While in traditional legal thinking technology is neither of particular interest nor concern, this book treats modern technologies as doubly significant, both as major targets for regulation and as potential tools to be used for legal and regulatory purposes. It explores whether our institutions for engaging with new technologies are fit for purpose.

Constitutional Challenges in the Algorithmic Society Hans-W. Micklitz 2021-12-02 New technologies have always challenged the social, economic, legal, and ideological status quo. Constitutional law is no less impacted by such technologically driven transformations, as the state must formulate a legal response to new technologies and their market applications, as well as the state's own use of new technology. In particular, the development of data collection, data mining, and algorithmic analysis by public and private actors present unique challenges to public law at the doctrinal as well as the theoretical level. This collection, aimed at legal scholars and practitioners, describes the constitutional challenges created by the algorithmic society. It offers an important synthesis of the state of play in law and technology studies, addressing the challenges for fundamental rights and democracy, the role of policy and regulation, and the responsibilities of private actors. This title is also available as Open Access on Cambridge Core.

Digital Media and Democratic Futures Michael X. Delli Carpini 2019-02-12 The essays in Digital Media and Democratic Futures provide deep insights into the complex and context-dependent relationship between media and democracy and show that there is no single outcome for democracy in

the digital age, only possible futures.

The Oxford Handbook of Law, Regulation and Technology Roger Brownsword 2017-07-20 The variety, pace, and power of technological innovations that have emerged in the 21st Century have been breathtaking. These technological developments, which include advances in networked information and communications, biotechnology, neurotechnology, nanotechnology, robotics, and environmental engineering technology, have raised a number of vital and complex questions. Although these technologies have the potential to generate positive transformation and help address 'grand societal challenges', the novelty associated with technological innovation has also been accompanied by anxieties about their risks and destabilizing effects. Is there a potential harm to human health or the environment? What are the ethical implications? Do this innovations erode of antagonize values such as human dignity, privacy, democracy, or other norms underpinning existing bodies of law and regulation? These technological developments have therefore spawned a nascent but growing body of 'law and technology' scholarship, broadly concerned with exploring the legal, social and ethical dimensions of technological innovation. This handbook collates the many and varied strands of this scholarship, focusing broadly across a range of new and emerging technology and a vast array of social and policy sectors, through which leading scholars in the field interrogate the interfaces between law, emerging technology, and regulation. Structured in five parts, the handbook (I) establishes the collection of essays within existing scholarship concerned with law and technology as well as regulatory governance; (II) explores the relationship between technology development by focusing on core concepts and values which technological developments implicate; (III) studies the challenges for law in responding to the emergence of new technologies, examining how legal norms, doctrine and institutions have been shaped, challenged and destabilized by technology, and even how technologies have been shaped by legal regimes; (IV) provides a critical exploration of the implications of technological innovation, examining the ways in which technological innovation has generated challenges for regulators in the governance of technological development, and the implications of employing new technologies as an instrument of regulatory governance; (V) explores various interfaces between law, regulatory governance, and new technologies across a range of key social domains.

Adolescence, Privacy, and the Law Roger J. R. Levesque 2016-08-31 Adolescence, Privacy, and the Law provides a foundation for understanding privacy rights and how they relate to adolescents. Roger Levesque argues that because privacy is actually an inherently social phenomenon, the ways in which adolescents' privacy needs and rights are shaped are essential to society's broader privacy interests. A close look at empirical understandings of privacy, how it shapes development, and how privacy itself can be shaped provides important lessons for addressing the critical juncture facing privacy rights and privacy itself. Adolescence, Privacy, and the Law provides an overview of the three major strands of privacy rights: decisional, spatial, and informational, and extends current understandings of these strands and how the legal system addresses adolescents and their legal status. Levesque presents comprehensive and specific analyses of the place of privacy in adolescent development and its outcomes, the influences that shape adolescents' expectations and experiences of privacy, and ways to effectively shape adolescents' use of privacy. He explains why privacy law must move in new directions to address privacy needs and pinpoints the legal foundation for moving in new directions. The book charts broad proposals to guide the development of sociolegal responses to changing social environments related to the privacy of adolescents and challenges jurisprudential analyses claiming that developmental sciences do not offer important and useful tools to guide responses to adolescents' privacy. Lastly, Levesque responds to likely criticisms that may hamper the development of sociolegal stances more consistent with adolescents' needs for privacy as well as with societal concerns about privacy.

Accountability and Security in the Cloud Massimo Felici 2015-03-31 The First A4Cloud Summer School has been one of the first events in the area of accountability and security in the cloud. It was organized by the EU-funded A4Cloud project, in collaboration with the European projects CIRRUS, Coco Cloud, CUMULUS, and SPECS. Cloud computing is a key technology that is being adopted progressively by companies and users across different application domains and industries. Yet, there are emerging issues such as security, privacy, and data protection. The 13 contributions included in this volume cover the state of the art and provide research insights into the following topics: accountability in the cloud; privacy and transparency in the cloud; empirical approaches for the cloud; socio-legal aspects of the cloud; cloud standards; and the accountability glossary of terms and definitions.

Biosurveillance in New Media Marketing Selena Nemorin 2018-10-05 Advertising has long been considered a manipulator of minds and has increased significantly in coercive power since the emergence of research in behavioural psychology. Now with the deployment of neuro-physiological imaging technologies into market contexts, companies are turning to neuromarketing to measure how we think and feel. Data driven models are being used to inform advertising strategies designed to trigger human action at a level beneath conscious awareness. This practice can be understood as a form of consumer biosurveillance: but what is behind the hype? What are the consequences? Biosurveillance in New Media Marketing is a critical reflection on the role that technology is playing in the construction of consumer representations, and its encroachment into the internal lives of individuals and groups. It is a work that examines the relationship between neuromarketing practitioners and machines, and how the discourses and practices emerging from this entanglement are influencing the way we make sense of the world.

The Costs of Connection Nick Couldry 2019-08-20 Just about any social need is now met with an opportunity to "connect" through digital means. But this convenience is not free—it is purchased with vast amounts of personal data transferred through shadowy backchannels to corporations using it to generate profit. The Costs of Connection uncovers this process, this "data colonialism," and its designs for controlling our lives—our ways of knowing; our means of production; our political participation. Colonialism might seem like a thing of the past, but this book shows that the historic appropriation of land, bodies, and natural resources is mirrored today in this new era of pervasive datafication. Apps, platforms, and smart objects capture and translate our lives into data, and then extract information that is fed into capitalist enterprises and sold back to us. The authors argue that this development foreshadows the creation of a new social order emerging globally—and it must be challenged. Confronting the alarming degree of surveillance already tolerated, they offer a stirring call to decolonize the internet and emancipate our desire for connection.

The Threats of Algorithms and AI to Civil Rights, Legal Remedies, and American Jurisprudence Alfred Cowger 2020-10 "This book argues that while algorithms and artificial intelligence offer many benefits to society, those benefits may be at the cost of civil rights and legal remedies in the legal system"--

Human Rights in the Age of Platforms Rikke Frank Jorgensen 2019-11-19 Scholars from across law and internet and media studies examine the human rights implications of today's platform society. Today such companies as Apple, Facebook, Google, Microsoft, and Twitter play an increasingly important role in how users form and express opinions, encounter information, debate, disagree, mobilize, and maintain their privacy. What are the human rights implications of an online domain managed by privately owned platforms? According to the Guiding Principles on Business and Human Rights, adopted by the UN Human Right Council in 2011, businesses have a responsibility to respect human rights and to carry out human

rights due diligence. But this goal is dependent on the willingness of states to encode such norms into business regulations and of companies to comply. In this volume, contributors from across law and internet and media studies examine the state of human rights in today's platform society. The contributors consider the "datafication" of society, including the economic model of data extraction and the conceptualization of privacy. They examine online advertising, content moderation, corporate storytelling around human rights, and other platform practices. Finally, they discuss the relationship between human rights law and private actors, addressing such issues as private companies' human rights responsibilities and content regulation. Contributors Anja Bechmann, Fernando Bermejo, Agnès Callamard, Mikkel Flyverbom, Rikke Frank Jørgensen, Molly K. Land, Tarlach McGonagle, Jens-Erik Mai, Joris van Hoboken, Glen Whelan, Jillian C. York, Shoshana Zuboff, Ethan Zuckerman Open access edition published with generous support from Knowledge Unlatched and the Danish Council for Independent Research.

The Algorithmic Foundations of Differential Privacy Cynthia Dwork 2014 The problem of privacy-preserving data analysis has a long history spanning multiple disciplines. As electronic data about individuals becomes increasingly detailed, and as technology enables ever more powerful collection and curation of these data, the need increases for a robust, meaningful, and mathematically rigorous definition of privacy, together with a computationally rich class of algorithms that satisfy this definition. Differential Privacy is such a definition. The Algorithmic Foundations of Differential Privacy starts out by motivating and discussing the meaning of differential privacy, and proceeds to explore the fundamental techniques for achieving differential privacy, and the application of these techniques in creative combinations, using the query-release problem as an ongoing example. A key point is that, by rethinking the computational goal, one can often obtain far better results than would be achieved by methodically replacing each step of a non-private computation with a differentially private implementation. Despite some powerful computational results, there are still fundamental limitations. Virtually all the algorithms discussed herein maintain differential privacy against adversaries of arbitrary computational power -- certain algorithms are computationally intensive, others are efficient. Computational complexity for the adversary and the algorithm are both discussed. The monograph then turns from fundamentals to applications other than query-release, discussing differentially private methods for mechanism design and machine learning. The vast majority of the literature on differentially private algorithms considers a single, static, database that is subject to many analyses. Differential privacy in other models, including distributed databases and computations on data streams, is discussed. The Algorithmic Foundations of Differential Privacy is meant as a thorough introduction to the problems and techniques of differential privacy, and is an invaluable reference for anyone with an interest in the topic.

The Philosophy of Law Meets the Philosophy of Technology Mireille Hildebrandt 2011-08-26 Law, Human Agency and Autonomic Computing interrogates the legal implications of the notion and experience of human agency implied by the emerging paradigm of autonomic computing, and the socio-technical infrastructures it supports.

Personality and Data Protection Rights on the Internet Marion Albers

<u>Florida Law Review</u> 2015

Global Technology and Legal Theory Guilherme Cintra Guimarães 2019-06-05 The rise and spread of the Internet has accelerated the global flows of money, technology and information that are increasingly perceived as a challenge to the traditional regulatory powers of nation states and the effectiveness of their constitutions. The acceleration of these flows poses new legal and political problems to their

regulation and control, as shown by recent conflicts between Google and the European Union (EU). This book investigates the transnational constitutional dimension of recent conflicts between Google and the EU in the areas of competition, taxation and human rights. More than a simple case study, it explores how the new conflicts originating from the worldwide expansion of the Internet economy are being dealt with by the institutional mechanisms available at the European level. The analysis of these conflicts exposes the tensions and contradictions between, on the one hand, legal and political systems that are limited by territory, and, on the other hand, the inherently global functioning of the Internet. The EU's promising initiatives to extend the protection of privacy in cyberspace set the stage for a broader dialogue on constitutional problems related to the enforcement of fundamental rights and the legitimate exercise of power that are common to different legal orders of world society. Nevertheless, the different ways of dealing with the competition and fiscal aspects of the conflicts with Google also indicate the same limits that are generally attributed to the very project of European integration, showing that the constitutionalization of the economy tends to outpace the constitutionalization of politics. Providing a detailed account of the unfolding of these conflicts, and their wider consequences to the future of the Internet, this book will appeal to scholars working in EU law, international law and constitutional law, as well as those in the fields of political science and sociology.

Future Law Lilian Edwards 2020-02-03 How will law, regulation and ethics govern a future of fast-changing technologies? Bringing together cutting-edge authors from academia, legal practice and the technology industry, Future Law explores and leverages the power of human imagination in understanding, critiquing and improving the legal responses to technological change. It focuses on the practical difficulties of applying law, policy and ethical structures to emergent technologies both now and in the future. It covers crucial current issues such as big data ethics, ubiquitous surveillance and the Internet of Things, and disruptive technologies such as autonomous vehicles, DIY genetics and robot agents. By using examples from popular culture such as books, films, TV and Instagram - including 'Black Mirror', 'Disney Princesses', 'Star Wars', 'Doctor Who' and 'Rick and Morty' - it brings hypothetical examples to life. And it asks where law might go next and to regulate new-phase technology such as artificial intelligence, 'smart homes' and automated emotion recognition.

Virtuality and Capabilities in a World of Ambient Intelligence Luiz Costa 2016-08-31 This book is about power and freedoms in our technological world and has two main objectives. The first is to demonstrate that a theoretical exploration of the algorithmic governmentality hypothesis combined with the capability approach is useful for a better understanding of power and freedoms in Ambient Intelligence, a world where information and communication technologies are invisible, interconnected, context aware, personalized, adaptive to humans and act autonomously. The second is to argue that these theories are useful for a better comprehension of privacy and data protection concepts and the evolution of their regulation. Having these objectives in mind, the book outlines a number of theses based on two threads: first, the elimination of the social effects of uncertainty and the risks to freedoms and, second, the vindication of rights. Inspired by and building on the outcomes of different philosophical and legal approaches, this book embodies an effort to better understand the challenges posed by Ambient Intelligence technologies, opening paths for more effective realization of rights and rooting legal norms in the preservation of the potentiality of human capabilities.

LAW, TECHNOLOGY AND INNOVATION Leonardo Parentoni 2021 his book is part of the collection sponsored by the Brazilian Research Center on Law, Technology and Innovation – DTIBR, ⬜a private nonprofit interdisciplinary membership association that works to bridge academia and business, as well as publishing papers and books focused on cutting edge technologies and their legal aspects. The book assembles the best papers from the students, properly revised, in expanded and updated versions.

Invited coauthors from other top-ranked universities in Brazil, as well as foreign scholars, also shared their thoughts, experience and impressions about that important subject. In the following pages, the reader will find 13 texts about many aspects of AI technology, not only in the legal field but also from the perspective of other areas, such as ethics, philosophy, computer sciences, medicine, civil law, business law, privacy and personal data protection.

Solidarity in Biomedicine and Beyond Barbara Prainsack 2017-01-19 In times of global economic and political crises, the notion of solidarity is gaining new currency. This book argues that a solidarity-based perspective can help us to find new ways to address pressing problems. Exemplified by three case studies from the field of biomedicine: databases for health and disease research, personalised healthcare, and organ donation, it explores how solidarity can make a difference in how we frame problems, and in the policy solutions that we can offer.