Big Data E Innovazione Computazionale

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Reinventing the Welfare State - Ursula Huws 2020
"The Covid-19 pandemic has tragically exposed how today's welfare state cannot properly protect its citizens. Despite the valiant efforts of public sector workers, from under-resourced hospitals to a shortage of housing and affordable social care, the pandemic has shown how decades of neglect has caused hundreds to die. In this bold new book, leading policy analyst Ursula Huws shows how we can create a welfare state that is fair, affordable, and offers security for all. Huws focuses on some of the key issues of our time - the gig economy, universal, free healthcare, and social care, to criticize the current state of welfare provision. Drawing on a lifetime of research on these topics, she clearly explains why we need to radically rethink how it could change. With positivity and rigor, she proposes new and original policy ideas, including critical discussions of Universal Basic Income and new legislation for universal workers' rights. She also outlines a 'digital welfare state' for the 21st century. This would involve a repurposing of online platform technologies under public control to modernize and expand public services, and improve accessibility."--Provided by publisher

Computational Thinking - Paolo Ferragina 2018-08-21
This book offers a gentle motivation and introduction to computational thinking, in particular to algorithms and how they can be coded to solve significant, topical problems from domains such as finance, cryptography, Web search, and data compression. The book is suitable for undergraduate students in computer science, engineering, and applied mathematics, university students in other fields, high-school students with an interest in STEM subjects, and professionals who want an insight into algorithmic solutions and the related mindset. While the authors assume only basic mathematical knowledge, they uphold the scientific rigor that is indispensable for transforming general ideas into executable algorithms. A supporting website contains examples and Python code for implementing the algorithms in the book.

Copyright and Mass Digitization - Maurizio Borghi 2013-03-21
In an age of mass digitization, does copyright law need to change, and if so, how? This thought-provoking book considers whether the purposes, activities and effects of mass digitization are consistent with copyright law and principles, arguing for a comprehensive regulatory framework for the use of works in mass digital libraries and archives.

Data-Driven Innovation Big Data for Growth and Well-Being - OECD 2015-10-06
This report improves the evidence base on the role of Data Driven Innovation for promoting growth and well-being, and provide policy guidance on how to maximise the benefits of DDI and mitigate the associated economic and societal risks.

The Fourth Revolution - Luciano Floridi 2014-06-26
Who are we, and how do we relate to each other? Luciano Floridi, one of the leading figures in contemporary philosophy, argues that the explosive developments in Information and Communication Technologies (ICTs) is changing the answer to these fundamental human questions. As the boundaries between life online and offline break down, and we become seamlessly connected to each other and surrounded by smart, responsive objects, we are all becoming integrated into an "infosphere". Personas we adopt in social media, for example, feed into our 'real' lives so that we begin to live, as Floridi puts in, "onlife". Following those led by Copernicus, Darwin, and Freud, this metaphysical shift represents nothing less than a fourth revolution. "Onlife" defines more and more of our daily activity - the way we shop, work, learn, care for our health, entertain ourselves, conduct our relationships; the way we interact with the worlds of law, finance, and politics; even the way we conduct war. In every department of life, ICTs have become environmental forces which are creating and transforming our realities. How can we ensure that we shall reap their benefits? What are the implicit risks? Are our technologies going to enable and empower us, or constrain us? Floridi argues that we must expand our ecological and ethical approach to cover both natural and man-made realities, putting the 'e' in an

environmentalism that can deal successfully with the new challenges posed by our digital technologies and information society.

Economic and Policy Implications of Artificial Intelligence - Domenico Marino 2021-05-22
This book presents original research articles addressing various aspects of artificial intelligence as applied to economics, law, management and optimization. The topics discussed include economics, policies, finance, law, resource allocation strategies and information technology. Combining the input of contributing professors and researchers from Italian and international universities, the book will be of interest to students, researchers and practitioners, as well as members of the general public interested in the economic and policy implications of artificial intelligence.

European Contract Law and the Digital Single Market - Alberto De Franceschi 2016
This book offers an edited collection consisting of contributions by leading scholars, addressing the impact of digital technology on European Private Law in light of the latest legislative developments as well as the European Commission's proposals of 9 December 2015. The book analyses issues in the field of contract, data protection, copyright and private international law. Written for both scholars and practitioners, this edited collection provides clear answers to the challenges posed by the digital revolution and acts as a solid basis for further developments of EU law.

EU Internet Law in the Digital Era - Tatiana-Eleni Synodinou 2019-10-18
The book provides a detailed overview and analysis of important EU Internet regulatory challenges currently found in various key fields of law directly linked to the Internet such as information technology, consumer protection, personal data, e-commerce and copyright law. In addition, it aims to shed light on the content and importance of various pending legislative proposals in these fields, and of the Court of Justice of the European Union's recent case law in connection with solving the different problems encountered. The book focuses on challenging legal questions that have not been sufficiently analyzed, while also presenting original thinking in connection with the regulation of emerging legal questions. As such, it offers an excellent reference tool for researchers, policymakers, judges, practitioners and law students with a special interest in EU Internet law and regulation.

Big Data and Competition Policy - Professor Maurice Stucke 2016-08-02
Big Data and Big Analytics are a big deal today. Big Data is playing a pivotal role in many companies' strategic decision-making. Companies are striving to acquire a 'data advantage' over rivals. Data-driven mergers are increasing. These data-driven business strategies and mergers raise significant implications for privacy, consumer protection and competition law. At the same time, European and United States' competition authorities are beginning to consider the implications of a data-driven economy on competition policy. In 2015, the European Commission launched a competition inquiry into the e-commerce sector and issued a statement of objections in its Google investigation. The implications of Big Data on competition policy will likely be a part of the mix. Big Data and Competition Policy is the first work to offer a detailed description of the important new issue of Big Data and explains how it relates to competition laws and policy, both in the EU and US. The book helps bring the reader quickly up to speed on what is Big Data, its competitive implications, the competition authorities' approach to data-driven mergers and business strategies, and their current approach's strengths and weaknesses. Written by two recognized leading experts in competition law, this accessible work offers practical guidance and theoretical discussion of the potential benefits (including data-driven efficiencies) and concerns for the practitioner, policy maker, and academic alike.

Trading Data in the Digital Economy - Sebastian Lohsse 2018

"Digitisation is fundamentally transforming our entire economy and our society. The datafication of business processes leads to an incredibly fast and ever increasing mass of data. Such data is the blood in the veins of the digital economy. Many existing and future business models, which will drive innovation and create economic growth, depend on being able to use this data. Trading Data in the Digital Economy is therefore a central aspect of the development of the EU Digital Market. In continuing with the aim of the 'Münster Colloquia on Digital Law and the EU Economy', this book examines the 'Legal Concepts and Tools' with a view to determining how EU law should react to the challenges and needs of this aspect of the digital economy. This volume is a collection of contributions to the 3rd Münster Colloquium, held on 4-5 May 2017 in Münster, Germany. The colloquium analysed the academic, practice-based, and political aspects of the various legal concepts and tools surrounding the trade in data. More specifically, the volume focuses on the starting points and challenges, exclusivity rights, compulsory licences, and contractual concepts."--Bloomsbury Publishing.

Between Truth and Power - Julie E. Cohen 2019
This work explores the relationships between legal institutions and political and economic transformation. It argues that as law is enlisted to help produce the profound economic and sociotechnical shifts that have accompanied the emergence of the informational economy, it is changing in fundamental ways.

Data Science for Social Good - Massimo Lapucci 2021
This book is a collection of reflections by thought leaders at first-mover organizations in the exploding field of "Data Science for Social Good", meant as the application of knowledge from computer science, complex systems and computational social science to challenges such as humanitarian response, public health, sustainable development. The book provides both an overview of scientific approaches to social impact identifying a social need, targeting an intervention, measuring impact and the complementary perspective of funders and philanthropies that are pushing forward this new sector. This book will appeal to students and researchers in the rapidly growing field of data science for social impact, to data scientists at companies whose data could be used to generate more public value, and to decision makers at nonprofits, foundations, and agencies that are designing their own agenda around data

The Legal Protection of Databases - Estelle Derclaye 2008-01-01
Dr Derclaye s book is well structured. . . the methodology is theoretical and comparative. . . Derclaye s work on database law is timely and readable, presenting a sound thesis to the perceived problems. Patricia Akester, Journal of Intellectual Property This book has a wide-ranging, detailed appeal for all lawyers, students and those in the public and private sectors. . . Richard Chambers . . . this book is a detailed, comprehensive and well-researched examination of legal protection of databases, which offers a valuable template for reform that will be of great interest to academics and policymakers alike. Tanya Aplin, European Intellectual Property Review The protection of the investment made in collecting, verifying or presenting database contents is still not harmonised internationally. Some laws over-protect database contents, whilst others under-protect them. This book examines and compares several methods available for the protection of investment in database creation namely, intellectual property, unfair competition, contract and technological protection measures in order to find an adequate type and level of protection. To this effect, the author uses criteria based on a combination of the economics of information goods, the human rights to intellectual property and to information, and the public interest, proposing a model that can be adopted at international and national levels. The Legal Protection of Databases will be of interest to intellectual property lawyers, competition lawyers, as well as general commercial lawyers because of the breadth of laws reviewed. It will also appeal to practitioners, policymakers, economists and students.

Health Data Pools Under European Data Protection and Competition Law - Giulia Schneider 2022
This book explores the emerging economic reality of health data pools from the perspective of European Union policy and law. The contractual sharing of health data for research purposes is giving rise to a free movement of research data, which is strongly encouraged at European policy level within the Digital Single Market Strategy. However, it has also a strong impact on data subjects fundamental right to data protection and smaller businesses and research entities ability to carry out research and compete in innovation markets. Accordingly the work questions under which conditions health data sharing is lawful under European data protection and competition law. For these purposes, the

work addresses the following sub-questions: i) which is the emerging innovation paradigm in digital health research?; ii) how are health data pools addressed at European policy level?; iii) do European data protection and competition law promote health data-driven innovation objectives, and how?; iv) which are the limits posed by the two frameworks to the free pooling of health data? The underlying assumption of the work is that both branches of European Union law are key regulatory tools for the creation of a common European health data space as envisaged in the Commissions 2020 European strategy for data. It thus demonstrates that both European data protection law, as defined under the General Data Protection Regulation, and European competition law and policy set research enabling regimes regarding health data, provided specific normative conditions are met. From a further perspective, both regulatory frameworks place external limits to the freedom to share (or not share) research valuable data. .

I contratti atipici - Marco Martorana 2020-09-21
Il Volume fornisce una disamina dei contratti atipici che negli ultimi anni hanno incontrato una importante diffusione nella prassi delle relazioni commerciali, anche con riferimento a settori economici specifici. In particolare l'opera si pone come obbiettivo quello di fornire al lettore un valido strumento per la redazione dei contratti trattati, mediante una attenta analisi delle pronunce giurisprudenziali e degli orientamenti dottrinali.

Handbook of Research on Advanced Research Methodologies for a Digital Society - Punziano, Gabriella 2021-09-03
Doing research is an ever-changing challenge for social scientists. This challenge is harder than ever today as current societies are changing quickly and in many, sometimes conflicting, directions. Social phenomena, personal interactions, and formal and informal relationships are becoming more borderless and disconnected from the anchors of the offline "reality." These dynamics are heavily marking our time and are suggesting evolutionary challenges in the ways we know, interpret, and analyze the world. Internet and computer-mediated communication (CMC) is being incorporated into every aspect of daily life, and social life has been deeply penetrated by the internet. This is due to recent technological developments that increase the scope and range of online social spaces and the forms and time of participation such as Web 2.0, which widened the opportunities for user-generated content, the emergence of an "internet of things," and of ubiquitous mobile devices that make it possible to always be connected. This implies an adjustment to epistemological and methodological stances for conducting social research and an adaption of traditional social research methods to the specificities of online interactions in the digital society. The Handbook of Research on Advanced Research Methodologies for a Digital Society covers the different strands of methods most affected by the change in a digital society and develops a broader theoretical reflection on the future of social research in its challenge to always be fitting, suitable, adaptable, and pertinent to the society to be studied. The chapters are geared towards unlocking the future frontiers and potential for social research in the digital society. They include theoretical, epistemological, and ontological reflections about the digital research methods as well as innovative methods and tools to collect, analyze, and interpret data. This book is ideal for social scientists, practitioners, librarians, researchers, academicians, and students interested in social research methodology and its developments in the digital scenario.

Mindstorms - Seymour A. Papert 2020-10-06
In this revolutionary book, a renowned computer scientist explains the importance of teaching children the basics of computing and how it can prepare them to succeed in the ever-evolving tech world. Computers have completely changed the way we teach children. We have Mindstorms to thank for that. In this book, pioneering computer scientist Seymour Papert uses the invention of LOGO, the first child-friendly programming language, to make the case for the value of teaching children with computers. Papert argues that children are more than capable of mastering computers, and that teaching computational processes like de-bugging in the classroom can change the way we learn everything else. He also shows that schools saturated with technology can actually improve socialization and interaction among students and between students and teachers. Technology changes every day, but the basic ways that computers can help us learn remain. For thousands of teachers and parents who have sought creative ways to help children learn with computers, Mindstorms is their bible.

Big Data e innovazione computazionale - Andrea Ottolia 2017-11-28

Biotechnology and Software Patent Law - Arezzo, E. Ghidini, G. 2011

'The art of editing is to bring contributions together, which melt into one book. This is what Emanuela Arezzo and Gustavo Ghidini have achieved with their own critical mind by composing a book of papers, in which internationally renowned experts measure the tensions created for the patent system by the needs and problems of protecting biotechnological and software inventions. All together, they present a comparative law challenge to the very fundaments of patent protection. As such, they are or may become a "must read".' Hanns Ullrich, College of Europe, Bruges, Belgium 'Arezzo and Ghidini have put together a fine collection of essays addressing developments in patent law from general themes to emerging ones in the infotech and biotech sectors. It is notable that the international array of authors includes contributions from both established and rising young scholars, all of them ably tackling difficult issues that merit our attention.' Rudolph J.R. Peritz, New York Law School, US The new millennium has carried several challenges for patent law. This up-to-date book provides readers with an important overview of the most critical issues patent law is still facing today at the beginning of the twenty first century, on both sides of the Atlantic. New technological sectors have emerged, each one with its own features with regard to innovation process and pace. From the most controversial cases in biotech to the most recent decisions in the field of software and business methods patent, patent law has tried to stretch its boundaries in a way to accommodate such new and controversial subject matters into its realm. Biotechnology and Software Patent Law will strongly appeal to postgraduate students specializing in IP law, international law, commercial and business law, competition law as well as IP scholars, academics and lawyers.

Practical Quantum Computing for Developers - Vladimir Silva 2018-12-12
Write algorithms and program in the new field of quantum computing. This book covers major topics such as the physical components of a quantum computer: qubits, entanglement, logic gates, circuits, and how they differ from a traditional computer. Also, Practical Quantum Computing for Developers discusses quantum computing in the cloud using IBM Q Experience including: the composer, quantum scores, experiments, circuits, simulators, real quantum devices, and more. You'll be able to run experiments in the cloud on a real quantum device. Furthermore, this book shows you how to do quantum programming using the QISKit (Quantum Information Software Kit), Python SDK, and other APIs such as QASM (Quantum Assembly). You'll learn to write code using these languages and execute it against simulators (local or remote) or a real quantum computer provided by IBM's Q Experience. Finally, you'll learn the current quantum algorithms for entanglement, random number generation, linear search, integer factorization, and others. You'll peak inside the inner workings of the Bell states for entanglement, Grover's algorithm for linear search, Shor's algorithm for integer factorization, and other algorithms in the fields of optimization, and more. Along the way you'll also cover game theory with the Magic Square, an example of quantum pseudo-telepathy where parties sharing entangled states can be observed to have some kind of communication between them. In this game Alice and Bob play against a referee. Quantum mechanics allows Alice and Bob to always win! By the end of this book, you will understand how this emerging technology provides massive parallelism and significant computational speedups over classical computers, and will be prepared to program quantum computers which are expected to replace traditional computers in the data center. What You Will LearnUse the Q Experience Composer, the first-of-its-kind web console to create visual programs/experiments and submit them to a quantum simulator or real device on the cloud Run programs remotely using the Q Experience REST API Write algorithms that provide superior performance over their classical counterparts Build a Node.js REST client for authenticating, listing remote devices, querying information about quantum processors, and listing or running experiments remotely in the cloud Create a quantum number generator: The quintessential coin flip with a quantum twist Discover quantum teleportation: This algorithm demonstrates how the exact state of a qubit (quantum information) can be transmitted from one location to another, with the help of classical communication and quantum entanglement between the sender and receiver Peek into single qubit operations with the classic game of Battleships with a quantum twist Handle the counterfeit coin problem: a classic puzzle that consists of finding a counterfeit coin in a beam balance among eight coins in only two turns Who This Book Is For Developers and programmers interested in this new field of computing.

Digital Platforms and Global Law - Bassan, Fabio 2021-11-17
Digital Platforms and Global Law focuses on digital platforms and

identifies their relevant legal profiles in terms of transnational and international law. It qualifies digital platforms as private legal orders, which exercise the legislative, executive, and (para)jurisdictional power within them. Starting from this assumption, the author studies the relationship between these orders and state, transnational, and international orders and concludes that the power of states to impose rules on platforms is different in terms of their external (in relation to other platforms and states) and internal (in their own legal system) action.

The Public Interest and Intellectual Property Models - Andrea Ottolia 2010

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.

Law of Raw Data - Jan Bernd Nordemann 2021-08-23
Data, in its raw or unstructured form, has become an important and valuable economic asset, lending it the sobriquet of 'the oil of the twenty-first century'. Clearly, as intellectual property, raw data must be legally defined if not somehow protected to ensure that its access and re-use can be subject to legal relations. As legislators struggle to develop a settled legal regime in this complex area, this indispensable handbook will offer a careful and dedicated analysis of the legal instruments and remedies, both existing and potential, that provide such protection across a wide variety of national legal systems. Produced under the auspices of the International Association for the Protection of International Property (AIPPI), more than forty of the association's specialists from twenty-three countries worldwide contribute national chapters on the relevant law in their respective jurisdictions. The contributions thoroughly explain how each country approaches such crucial matters as the following: if there is any intellectual property right available to protect raw data; the nature of such intellectual property rights that exist in unstructured data; contracts on data and which legal boundaries stand in the way of contract drafting; liability for data products or services; and questions of international private law and cross-border portability. Each country's rules concerning specific forms of data – such as data embedded in household appliances and consumer goods, criminal offence data, data relating to human genetics, tax and bank secrecy, medical records, and clinical trial data – are described, drawing on legislation, regulation, and case law. A matchless legal resource on one of the most important raw materials of the twenty-first century, this book provides corporate counsel, practitioners and policymakers working in the field of intellectual property rights, and concerned academics with both a broad-based global overview on emerging legal strategies in the protection of unstructured data and the latest information on existing legislation and regulation in the area.

Computational Neuroaesthetics - Mattia Martone 2020-08-09
Computational Neuroaesthetics is the new discipline that integrates neuromarketing, psychology and computer science to develop digital contents aligned to users' psychological characteristics, such as personality traits. Computational Neuroaesthetics is the term coined by Mattia Martone, co-founder of PXR Italy Research Center, to legitimize the birth of this innovative discipline. The book presents a structure divided into two macro-sections. The first one describes the concept of contents' aesthetics in today's digital society, characterized by the phenomena of personalization and big data, and outlines the origins of Computational Neuroaesthetics. The second macro-section illustrates the psychological approaches to contents' aesthetics. The text represents the origin of a discipline destined to enrich the world of digital marketing (and not only this field) because it provides the basis for the development of disruptive products and services.

Human Law and Computer Law: Comparative Perspectives - Mireille Hildebrandt 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.

Economic and Policy Implications of Artificial Intelligence - Domenico Marino 2020-05-20
This book presents original research articles addressing various aspects of artificial intelligence as applied to economics, law, management and optimization. The topics discussed include economics, policies, finance, law, resource allocation strategies and information technology. Combining the input of contributing professors and researchers from Italian and international universities, the book will be of interest to students, researchers and practitioners, as well as members of the general public interested in the economic and policy implications of artificial intelligence.

Quantitative Narrative Analysis - Roberto Franzosi 2010
Quantitative Narrative Analysis focuses on the following issues: 1. the fundamental features of narrative (as a specific type of text genre with certain invariant linguistic properties); 2. how the invariant properties of narrative can be used to structure narrative information in ways that basic qualitative information can then be analyzed quantitatively (story grammars, or Subject-Action-Object and respective modifiers, such as Time and Space of Action); 3. reliability (and how the computer and linguistic framework of the approach greatly increase data reliability); 4. data analysis (the book does not focus on general problems of data analysis, it will show how textual data can be analyzed with numbers).

Handbook of Big Data and IoT Security - Ali Dehghantanha 2019-03-22
This handbook provides an overarching view of cyber security and digital forensic challenges related to big data and IoT environment, prior to reviewing existing data mining solutions and their potential application in big data context, and existing authentication and access control for IoT devices. An IoT access control scheme and an IoT forensic framework is also presented in this book, and it explains how the IoT forensic framework can be used to guide investigation of a popular cloud storage service. A distributed file system forensic approach is also presented, which is used to guide the investigation of Ceph. Minecraft, a Massively Multiplayer Online Game, and the Hadoop distributed file system environment are also forensically studied and their findings reported in this book. A forensic IoT source camera identification algorithm is introduced, which uses the camera's sensor pattern noise from the captured image. In addition to the IoT access control and forensic frameworks, this handbook covers a cyber defense triage process for nine advanced persistent threat (APT) groups targeting IoT infrastructure, namely: APT1, Molerats, Silent Chollima, Shell Crew, NetTraveler, ProjectSauron, CopyKittens, Volatile Cedar and Transparent Tribe. The characteristics of remote-controlled real-world Trojans using the Cyber Kill Chain are also examined. It introduces a method to leverage different crashes discovered from two fuzzing approaches, which can be used to enhance the effectiveness of fuzzers. Cloud computing is also often associated with IoT and big data (e.g., cloud-enabled IoT systems), and hence a survey of the cloud security literature and a survey of botnet detection approaches are presented in the book. Finally, game security solutions are studied and explained how one may circumvent such solutions. This handbook targets the security, privacy and forensics research community, and big data research community, including policy makers and government agencies, public and private organizations policy makers. Undergraduate and postgraduate students enrolled in cyber security and forensic programs will also find this handbook useful as a reference.
The Promise and Peril of Big Data - David Bollier 2010

Global Sustainability Inside and Outside the Territory - Carmine Nardone 2014-12-23
This book contains the proceedings of the international workshop on global sustainability held in Benevento, Italy, on February 2014. The proceedings consist of 10 invited and contributed papers related to the broad range of aspects of sustainability in a global scenario including

food safety, monitoring, soil mapping, healthcare, territorial intelligence, local food production, greenhouse gas emissions, renewable energy sources, integrated development, sustainability strategies, "smart" bio-territories, replete with case studies. This book aims to provide the perspective of the diverse problems in global sustainability, and the many disciplines that could work together in achieving it. The workshop itself led to the signing of international agreements for the protection and enhancement of endangered species in the area of North Africa. Contents:A Greater Sustainability is Possible (Carmine Nardone and Maria Luisa Varricchio)The "New" Development of Renewable Energy Sources in the World. A Potential Path Towards Global Sustainability (Carlo Sinatra)Global Sustainable and Integrated Development. The Case of Global Sustainable and Social Energy Program — GSSEP Onlus (Carlo Sinatra)A Proposal for Advanced Services and Data Processing Aiming at the Territorial Intelligence Development (Salvatore Rampone and Gianni D'Angelo)Visible-near Infrared Reflectance Spectroscopy for Field Scale Digital Soil Mapping. A Case Study (Antonio P Leone, Fulvio Fragnito, Giovanni Morelli, Maurizio Tosca, Natalia Leone, Massimo Bilancia and Maria Luisa Varricchio)Mediterranean Agency for Remote Sensing and Environmental Control: Satellite Monitoring and Mapping (Roberto Tartaglia Polcini)Evaluation of Greenhouse Gas Emissions of E-commerce (Valerio Morfino, Alessandro Perrella and Salvatore Rampone)Pre-feasibility Study "Save the Camels" (Maria Luisa Varricchio and Carmine Nardone)A Food Safety and Traceability System Based on RFID Technology and Internet of Things (Gianni D'Angelo, Gianfranco De Luca and Salvatore Rampone)WTC (We Take Care) Experimental Smartphone App to Follow-up and Take Care of Patients with Chronic Infectious Disease: Which Impact on Patients Life Style? (Alessandro Perrella and Valerio Morfino)Global Sustainability for a World of 'Smart' Bio-territories (Donato Matassino) Readership: Students, researchers, and professionals interested in the latest attempt for global sustainability. Key Features:This book evidences an integrated approach to the broad range of aspects of sustainability in a global scenarioKeywords:Sustainability Strategies;Renewable Energy Sources;Integrated Development;Territorial Intelligence;Endangered Species;"Smart" Bio-Territories

New Laws of Robotics - Frank Pasquale 2020-10-27
AI is poised to disrupt our work and our lives. We can harness these technologies rather than fall captive to them—but only through wise regulation. Too many CEOs tell a simple story about the future of work: if a machine can do what you do, your job will be automated. They envision everyone from doctors to soldiers rendered superfluous by ever-more-powerful AI. They offer stark alternatives: make robots or be replaced by them. Another story is possible. In virtually every walk of life, robotic systems can make labor more valuable, not less. Frank Pasquale tells the story of nurses, teachers, designers, and others who partner with technologists, rather than meekly serving as data sources for their computerized replacements. This cooperation reveals the kind of technological advance that could bring us all better health care, education, and more, while maintaining meaningful work. These partnerships also show how law and regulation can promote prosperity for all, rather than a zero-sum race of humans against machines. How far should AI be entrusted to assume tasks once performed by humans? What is gained and lost when it does? What is the optimal mix of robotic and human interaction? New Laws of Robotics makes the case that policymakers must not allow corporations or engineers to answer these questions alone. The kind of automation we get—and who it benefits—will depend on myriad small decisions about how to develop AI. Pasquale proposes ways to democratize that decision making, rather than centralize it in unaccountable firms. Sober yet optimistic, New Laws of Robotics offers an inspiring vision of technological progress, in which human capacities and expertise are the irreplaceable center of an inclusive economy.

Open Government - Daniel Lathrop 2010-02-08
In a world where web services can make real-time data accessible to anyone, how can the government leverage this openness to improve its operations and increase citizen participation and awareness? Through a collection of essays and case studies, leading visionaries and practitioners both inside and outside of government share their ideas on how to achieve and direct this emerging world of online collaboration, transparency, and participation. Contributions and topics include: Beth Simone Noveck, U.S. Deputy Chief Technology Officer for open government, "The Single Point of Failure" Jerry Brito, senior research fellow at the Mercatus Center at George Mason University, "All Your Data Are Belong to Us: Liberating Government Data" Aaron Swartz,

cofounder of reddit.com, OpenLibrary.org, and BoldProgressives.org, "When Is Transparency Useful?" Ellen S. Miller, executive director of the Sunlight Foundation, "Disrupting Washington's Golden Rule" Carl Malamud, founder of Public.Resource.Org, "By the People" Douglas Schuler, president of the Public Sphere Project, "Online Deliberation and Civic Intelligence" Howard Dierking, program manager on Microsoft's MSDN and TechNet Web platform team, "Engineering Good Government" Matthew Burton, Web entrepreneur and former intelligence analyst at the Defense Intelligence Agency, "A Peace Corps for Programmers" Gary D. Bass and Sean Moulton, OMB Watch, "Bringing the Web 2.0 Revolution to Government" Tim O'Reilly, founder and CEO of O'Reilly Media, "Defining Government 2.0: Lessons Learned from the Success of Computer Platforms" Open Government editors: Daniel Lathrop is a former investigative projects reporter with the Seattle Post Intelligencer who's covered politics in Washington state, Iowa, Florida, and Washington D.C. He's a specialist in campaign finance and "computer-assisted reporting" -- the practice of using data analysis to report the news. Laurel Ruma is the Gov 2.0 Evangelist at O'Reilly Media. She is also co-chair for the Gov 2.0 Expo.

Toward Precision Medicine - National Research Council 2012-01-16
Motivated by the explosion of molecular data on humans-particularly data associated with individual patients-and the sense that there are large, as-yet-untapped opportunities to use this data to improve health outcomes, Toward Precision Medicine explores the feasibility and need for "a new taxonomy of human disease based on molecular biology" and develops a potential framework for creating one. The book says that a new data network that integrates emerging research on the molecular makeup of diseases with clinical data on individual patients could drive the development of a more accurate classification of diseases and ultimately enhance diagnosis and treatment. The "new taxonomy" that emerges would define diseases by their underlying molecular causes and other factors in addition to their traditional physical signs and symptoms. The book adds that the new data network could also improve biomedical research by enabling scientists to access patients' information during treatment while still protecting their rights. This would allow the marriage of molecular research and clinical data at the point of care, as opposed to research information continuing to reside primarily in academia. Toward Precision Medicine notes that moving toward individualized medicine requires that researchers and health care providers have access to very large sets of health- and disease-related data linked to individual patients. These data are also critical for developing the information commons, the knowledge network of disease, and ultimately the new taxonomy.

Internet of Things and the Law - Guido Noto La Diega 2022-10-14
Internet of Things and the Law: Legal Strategies for Consumer-Centric Smart Technologies is the most comprehensive and up-to-date analysis of the legal issues in the Internet of Things (IoT). For decades, the decreasing importance of tangible wealth and power – and the increasing significance of their disembodied counterparts – has been the subject of much legal research. For some time now, legal scholars have grappled with how laws drafted for tangible property and predigital 'offline' technologies can cope with dematerialisation, digitalisation, and the internet. As dematerialisation continues, this book aims to illuminate the opposite movement: rematerialisation, namely, the return of data, knowledge, and power within a physical 'smart' world. This development frames the book's central question: can the law steer rematerialisation in a human-centric and socially just direction? To answer it, the book focuses on the IoT, the sociotechnological phenomenon that is primarily responsible for this shift. After a thorough analysis of how existing laws can be interpreted to empower IoT end users, Noto La Diega leaves us with the fundamental question of what happens when the law fails us and concludes with a call for collective resistance against 'smart' capitalism.

Big Data--A New Medium? - Natasha Lushetich 2020-11-26
Drawing on a range of methods from across science and technology studies, digital humanities and digital arts, this book presents a comprehensive view of the big data phenomenon. Big data architectures are increasingly transforming political questions into technical management by determining classificatory systems in the social, educational, and healthcare realms. Data, and their multiple arborisations, have become new epistemic landscapes. They have also become new existential terrains. The fundamental question is: can big

data be seen as a new medium in the way photography or film were when they first appeared? No new medium is ever truly new. It's always remediation of older media. What is new is the medium's re-articulation of the difference between here and there, before and after, yours and mine, knowable and unknowable, possible and impossible. This transdisciplinary volume, incorporating cultural and media theory, art, philosophy, history, and political philosophy is a key resource for readers interested in digital humanities, cultural, and media studies.

Employees' Intellectual Property Rights - Sanna Wolk 2016-04-24
In today's knowledge-based global economy, most inventions are made by employed persons through their employers' research and development activities. However, methods of establishing rights over an employee's intellectual property assets are relatively uncertain in the absence of international solutions. Given that increasingly more businesses establish entities in different countries and more employees co-operate across borders, it becomes essential for companies to be able to establish the conditions under which ownership subsists in intellectual property created in employment relationships in various countries. This comparative law publication describes and analyses employers' acquisition of employees' intellectual property rights, first in general and then in depth. This second edition of the book considers thirty-four different jurisdictions worldwide. The book was developed within the framework of the International Association for the Protection of Intellectual Property (AIPPI), a non-affiliated, non-profit organization dedicated to improving and promoting the protection of intellectual property at both national and international levels. Among the issues and topics covered by the forty-nine distinguished contributors are the following: • different approaches in different law systems; • choice of law for contracts; • harmonizing international jurisdiction rules; • conditions for recognition and enforcement of foreign judgments; • employees' rights in copyright, semiconductor chips, inventions, designs, plant varieties and utility models on a country-by-country basis; • employee remuneration right; • parties' duty to inform; and • instances for disputes. With its wealth of information on an increasingly important subject for practitioners in every jurisdiction, this book is sure to be put to constant use by corporate lawyers and in-house counsel everywhere. It is also exceptionally valuable as a thorough resource for academics and researchers interested in the international harmonization of intellectual property law.

Big Data - Min Chen 2014-05-05
This Springer Brief provides a comprehensive overview of the background and recent developments of big data. The value chain of big data is divided into four phases: data generation, data acquisition, data storage and data analysis. For each phase, the book introduces the general background, discusses technical challenges and reviews the latest advances. Technologies under discussion include cloud computing, Internet of Things, data centers, Hadoop and more. The authors also explore several representative applications of big data such as enterprise management, online social networks, healthcare and medical applications, collective intelligence and smart grids. This book concludes with a thoughtful discussion of possible research directions and development trends in the field. Big Data: Related Technologies, Challenges and Future Prospects is a concise yet thorough examination of this exciting area. It is designed for researchers and professionals interested in big data or related research. Advanced-level students in computer science and electrical engineering will also find this book useful.

Research Handbook on the Law of Artificial Intelligence - Woodrow Barfield 2018-12-28
The field of artificial intelligence (AI) has made tremendous advances in the last two decades, but as smart as AI is now, it is getting smarter and becoming more autonomous. This raises a host of challenges to current legal doctrine, including whether AI/algorithms should count as 'speech', whether AI should be regulated under antitrust and criminal law statutes, and whether AI should be considered as an agent under agency law or be held responsible for injuries under tort law. This book contains chapters from US and international law scholars on the role of law in an age of increasingly smart AI, addressing these and other issues that are critical to the evolution of the field.

Preventing Health Care Fraud :. - United States. Congress. Senate. Committee on Finance 2011