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# Big Data E Innovazione Computazionale

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Big Data e innovazione computazionale  
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Copyright and Mass Digitization  
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Handbook of Big Data and IoT Security  
European Contract Law and the Digital Single Market  
Human Law and Computer Law: Comparative Perspectives

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Handbook of Research on Advanced Research Methodologies for a Digital Society

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Computational Neuroaesthetics

Data-Driven Innovation Big Data for Growth and Well-Being  
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**CANTRELL DEANDRE**

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Big Data e innovazione  
computazionale

Routledge

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. **Employees' Intellectual Property Rights** Harvard University Press  
'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 fundamentals 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. Reinventing the Welfare State Oxford University Press

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. Copyright and Mass Digitization FrancoAngeli

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. Toward Precision Medicine PXR Italy

Intelligenza artificiale e deep learning, droni e robot, blockchain e smart contract, cybersicurezza:

una realtà sempre più generata, alimentata, protetta – attaccata? – dalle macchine si affaccia intorno a noi. Frontiere tecnologiche potenzialmente gravide di opportunità per la costruzione di un mondo più trasparente, equo e sicuro, ma non prive di vulnerabilità. È un universo automato che incalza e che merita di essere analizzato in sé, senza preconcetti, con apertura, consapevolezza e profondità. Da questo scenario prende le mosse un'esplorazione filosofica

della dimensione automatica in quanto tale. L'automatizzazione sta ridisegnando le nostre idee e categorie concettuali, le attività professionali e le relazioni umane, le pratiche cognitive e disciplinari, l'etica e la politica. Filosoficamente, un orizzonte che non è solo tecnologico o infrastrutturale, ma più ontologicamente fondativo: automazione, dunque, non solo come spinta ingegneristica a costruire macchine e automi, ma come

prospettiva più generale di produzione del nostro reale e del suo senso. **Digital Platforms and Global Law** Routledge 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.

*Big Data—A New Medium?*

OECD Publishing

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Giappichelli EditoreLaw of Raw DataKluwer Law International B.V.

IGI Global

Dr Derclayes book is well structured. . . the methodology is

theoretical and comparative. . . Derclayes 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.

#### Computational Power

Kluwer Law International B.V.

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.

*The Laws of Robots*  
Giappichelli

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.

**Mindstorms** National Academies Press  
 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.

*Il mondo ex machina*

Kluwer Law International B.V.

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.

**Open Government** SAGE  
We delegate more and more decisions and tasks to artificial agents, machine-learning mechanisms, and algorithmic procedures or, in other words, to computational systems. Not that we are driven by powerful ambitions of colonizing the Moon, replacing humans with legions of androids, creating sci-fi scenarios à la Matrix or masterminding some sort of Person of Interest-like Machine. No, the current digital revolution based

on computational power is chiefly an everyday revolution. It is therefore that much more profound, unnoticed and widespread, for it affects our customary habits and routines and alters the very texture of our day-to-day lives. This opens a precise line of inquiry, which constitutes the basic thesis of the present text: our computational power is exercised by trying to adapt not just the world but also our representation of reality to how computationally based ICTs work. The

impact of this technology is such that it does not leave things as they are: it changes the nature of agents, habits, objects and institutions and hence it subverts the existing order, without necessarily generating a new one. I argue that this power is often not distributed in an egalitarian manner but, on the contrary, is likely to result in concentrations of wealth, in dominant positions or in unjust competitive advantages. This opens up a struggle, with respect to which the task of reaffirming the

fundamental values, the guiding principles, the priorities and the rules of the game, which can transform, or attempt to transform, a fierce confrontation between enemies in a fair competition between opponents rests on us. Handbook of Big Data and IoT Security Springer 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.

European Contract Law and the Digital Single Market Basic Books  
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.

*Human Law and Computer Law: Comparative Perspectives*  
Springer Science & Business Media

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,

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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  
**Global Sustainability Inside and Outside the Territory** Edward Elgar



## Publishing

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.

*Big Data* FrancoAngeli  
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.

**Computational Thinking** Springer Nature  
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.

*Handbook of Research on Advanced Research Methodologies for a Digital Society World Scientific*

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 numbers).  
data can be analyzed with

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