

Access Free Big Data E
Innovazione Computazionale

Big Data E Innovazione Computazionale

"Digitisation is fundamentally transforming our entire economy and

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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

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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 'M ü nster Colloquia on Digital Law and the EU Economy', this book examines the 'Legal Concepts and Tools' with a view to

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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

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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.
Computational Neuroaesthetics is the

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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

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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

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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

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basis for the development of disruptive products and services.

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

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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

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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

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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

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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

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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.

Drawing on a range of methods from

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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

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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

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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

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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.

The Legal Protection of Databases
A Comparative Review of New

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Developments

Educare ai processi e ai linguaggi
dell'apprendimento

Collaboration, Transparency, and
Participation in Practice

Big Data

The Implications of the Digital
Revolution

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The Promise and Peril of Big Data
Artificial intelligence threatens to disrupt the professions as it has manufacturing. Frank Pasquale argues that law and policy can avert this outcome and promote better ones: instead of replacing humans, technology can make

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our labor more valuable. Through regulation, we can ensure that AI promotes inclusive prosperity. The book provides a detailed overview and analysis of important EU Internet regulatory challenges currently found in various key fields of law directly

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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

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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

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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.

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1169.1

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

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economic and societal risks.
European Contract Law and the
Digital Single Market
A Comparative Analysis
Open Government
A Roadmap for Usage and
Exploitation of Big Data in
Europe

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Computational Thinking

Il mondo in sintesi

Big Data—A New Medium?

*In this book readers will
find technological
discussions on the existing
and emerging technologies
across the different stages*

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of the big data value chain. They will learn about legal aspects of big data, the social impact, and about education needs and requirements. And they will discover the business perspective and how big data

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technology can be exploited to deliver value within different sectors of the economy. The book is structured in four parts: Part I “The Big Data Opportunity” explores the value potential of big data

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with a particular focus on the European context. It also describes the legal, business and social dimensions that need to be addressed, and briefly introduces the European Commission's BIG project.

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Part II "The Big Data Value Chain" details the complete big data lifecycle from a technical point of view, ranging from data acquisition, analysis, curation and storage, to data usage and exploitation.

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Next, Part III “Usage and Exploitation of Big Data” illustrates the value creation possibilities of big data applications in various sectors, including industry, healthcare, finance, energy, media and

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public services. Finally, Part IV “A Roadmap for Big Data Research” identifies and prioritizes the cross-sectorial requirements for big data research, and outlines the most urgent and challenging technological,

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economic, political and societal issues for big data in Europe. This compendium summarizes more than two years of work performed by a leading group of major European research centers and industries in the

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*context of the BIG project.
It brings together research
findings, forecasts and
estimates related to this
challenging technological
context that is becoming the
major axis of the new
digitally transformed*

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business environment.

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'

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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

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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

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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

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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

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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

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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

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for the practitioner, policy maker, and academic alike.

Dr Derclaye s book is well structured. . . the methodology is theoretical and comparative. . .

Derclaye s work on database law is timely and readable,

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*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*

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*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*

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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

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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

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*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,*

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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

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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

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breadth of laws reviewed. It will also appeal to practitioners, policymakers, economists and students.

'The art of editing is to bring contributions together, which melt into one book. This is what

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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

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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

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*"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*

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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

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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

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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

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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

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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,

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*commercial and business law,
competition law as well as
IP scholars, academics and
lawyers.*

Law of Raw Data

*Legal Concepts and Tools :
Münster Colloquia on EU Law
and the Digital Economy III*

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Mindstorms

Methods, Tools and Trends

Big Data and Competition

Policy

Data-Driven Innovation Big

Data for Growth and Well-

Being

Economic and Policy

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Implications of Artificial Intelligence

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

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specifici. In particolare l'opera si pone come obiettivo 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.

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Researchers and students in the social sciences.

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

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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

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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.

This book offers an edited collection consisting of

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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

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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.

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Related Technologies, Challenges
and Future Prospects
Proceedings of the 1st International
Workshop
Children, Computers, And Powerful
Ideas
La scuola ai tempi del digitale.
Istruzioni per costruire una scuola

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nuova

Copyright and Mass Digitization

The Laws of Robots

New Laws of Robotics

This work explores the
relationships between legal
institutions and political and

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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.

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The book analyzes the most relevant developments in the relation between contracts and technology, from automatically concluded contracts to today's revolutionary "smart contracts" developed through blockchain,

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which are beginning to and will increasingly disrupt many economic and social relations. First of all, the author offers a broad analysis of the peculiarities and evolution of the relation between contracts and technology. The

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main features and elements of electronic contracts are then examined in depth to highlight the specific rules applicable to them in the international comparative legal framework. In turn, the book provides a detailed explanation of

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the technology, economic and social dynamics, and legal issues concerning blockchain and smart contracts. The analysis focuses on the question of the legal nature of smart contracts, the issues posed by their development and the first

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legal solutions adopted in some countries. The comparative approach pursued makes it possible to focus attention on the first solutions adopted until now in various systems, with particular regard to the circulation of models

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and ideas and to the specificities of their local variations, in terms of e.g. applicable law and jurisdiction. In reviewing the characteristics of distributed ledger technologies, and in particular of the blockchain technology on which smart

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contracts are based, above all the peculiarities of the latter are taken into consideration, especially automatic execution and resistance to tampering, which simultaneously present significant opportunities and complex legal issues. A

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comprehensive framework is then provided to reconcile smart contracts with comparative contract law, in order to define the scope and specificities of their binding force, legal effectiveness and regulation in various legal systems.

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Lastly, with specific reference to the elements, pathologies and contractual remedies for smart contracts, the book examines the peculiarities of their application and the main issues that emerge in comparative contract law in order

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to promote their harmonized use, in keeping with the transnational nature of such a revolutionary tool.

Big Data e innovazione
computazionaleG Giappichelli
EditoreLaw of Raw DataKluwer
Law International B.V.

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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,

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arguing for a comprehensive regulatory framework for the use of works in mass digital libraries and archives.

EU Internet Law in the Digital Era
Toward Precision Medicine
Cinque brevi lezioni di filosofia

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dell'automazione

Building a Knowledge Network for
Biomedical Research and a New
Taxonomy of Disease

Employees' Intellectual Property
Rights

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Regulation and Enforcement
**In today's knowledge-based
global economy, most
inventions are made by
employed persons through
their employers' research
and development activities.
However, methods of**

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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

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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

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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

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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

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**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**

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**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;**

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- **harmonizing international jurisdiction rules;**
- **conditions for recognition and enforcement of foreign judgments;**
- **employees' rights in copyright, semiconductor chips, inventions, designs, plant**

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**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**

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**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**

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**thorough resource for
academics and researchers
interested in the
international harmonization
of intellectual property
law.**

**Intelligenza artificiale e
deep learning, droni e**

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robot, blockchain e smart contract, cybersicurezza: una realtà sempre più generata, alimentata, protetta – attaccata? – dalle macchine si affaccia intorno a noi. Frontiere tecnologiche potenzialmente

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**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,**

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**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**

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**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**

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**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**

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e del suo senso.

**Since the very beginnings of
the digital humanities,
Papyrology has been in the
vanguard of the application
of information technologies
to its own scientific
purposes, for both**

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theoretical and practical reasons (the strong awareness towards the problems of human memory and the material ways of preserving it; the need to work with a multifarious and overwhelming amount of

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different data). After more than thirty years of development, we have now at our disposal the most advanced tools to make papyrological studies more and more effective, and even to create a new conception

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of "papyrology" and a new model of "edition" of the ancient documents. At this turning point, it is important to build an epistemological framework including all the different expressions of Digital

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Papyrology, to trace a historical sketch setting the background of the contemporary tools, and to provide a clear overview of the current theoretical and technological trends, so that all the possibilities

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currently available can be exploited following uniform pathways. The volume represents an innovative attempt to deal with such topics, usually relegated into very quick and general treatments within journal

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**articles or papyrological
handbooks.**

**This book presents original
research articles addressing
various aspects of
artificial intelligence as
applied to economics, law,
management and optimization.**

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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

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**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**

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intelligence.

Smart Contracts and

Comparative Law

Digital Platforms and Global

Law

Digital Papyrology I

Redesigning the Welfare

State for the 21st Century

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**New Horizons for a Data-
Driven Economy**

I contratti atipici

**Big Data e innovazione
computazionale**

In this revolutionary book,
a renowned computer
scientist explains the

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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

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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

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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

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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

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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.

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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

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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

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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,

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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

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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

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research. Advanced-level students in computer science and electrical engineering will also find this book useful.

Volti artificiali e carni coltivate, gemelli digitali e beni crittografici, dati e

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media sintetici, creature
biorobotiche e metaversi
emergenti fino ai simulatori
quantistici e alle
neuroprotesi: forse non
viviamo dentro una
simulazione, ma di certo
vivremo grazie a una

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simulazione. O meglio, in virtù delle molte simulazioni che stanno ridisegnando il nostro mondo. Qualcuno l'ha chiamata età dell'oro della simulazione, uno spettro ampio e divisivo di

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meraviglie e mostruosità. Di
più: queste sorprendenti e
talvolta arrischiate
ingegnerie simulacrali
assemblano oggi
filosoficamente un nuovo
catalogo del reale. Danno
vita a un pianeta ricreato e

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popolato da entità,
esperienze ed ecologie
generate - a vario titolo e
senso - attraverso
simulazioni computazionali.
Tra inconsuete mimesi e
singolari genesi, tra
simulazioni e sintesi, è

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un'improvvisa produzione
(sostenibile?) di nuove,
strane nature. È un
rinnovato modo di essere e
di divenire (abitato) del
nostro pianeta. Ma che
cos'è, oggi, simulazione?
Come Alice, per esplorare

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queste terre incognite
abbiamo bisogno di mappe
culturali aggiornate.
Interpretative e
orientative. Curiose e caute
insieme. Come quelle fornite
in queste cinque lezioni.
This book offers a gentle

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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

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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

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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

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indispensable for
transforming general ideas
into executable algorithms.
A supporting website
contains examples and Python
code for implementing the
algorithms in the book.
Il mondo ex machina

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First Algorithms, Then Code

Philanthropy and Social

Impact in a Complex World

Quantitative Narrative

Analysis

Data Science for Social Good

Defending Human Expertise in

the Age of AI

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Cinque brevi lezioni di
filosofia della simulazione

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

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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,

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***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***

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***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***

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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

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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"

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***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***

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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

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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.

This handbook provides an overarching view of cyber

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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

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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

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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

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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

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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

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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

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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

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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

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private organizations policy makers. Undergraduate and postgraduate students enrolled in cyber security and forensic programs will also find this handbook useful as a reference. This book contains the proceedings of the international

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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,

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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

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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

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***of endangered species in the area
of North Africa. Contents:A
Greater Sustainability is Possible
(Carminé Nardone and Maria
Luisa Varricchio)The "New"
Development of Renewable
Energy Sources in the World. A
Potential Path Towards Global***

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***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***

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***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,***

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***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**

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***Gas Emissions of E-commerce
(Valerio Morfino, Alessandro
Perrella and Salvatore
Rampono)Pre-feasibility Study
"Save the Camels" (Maria Luisa
Varricchio and Carmine
Nardone)A Food Safety and
Traceability System Based on***

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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

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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

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sustainability. Key Features: This book evidences an integrated approach to the broad range of aspects of sustainability in a global scenario Keywords: Sustainability Strategies; Renewable Energy Sources; Integrated

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***Development;Territorial
Intelligence;Endangered
Species;“Smart” Bio-Territories
1096.1.4***

***Big Data for Growth and Well-
Being***

***The Public Interest and
Intellectual Property Models***

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Technology for the Many
Innovation in Digital Marketing
Biotechnology and Software
Patent Law
Handbook of Big Data and IoT
Security
Human Law and Computer Law:
Comparative Perspectives

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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

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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.”

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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

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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.

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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

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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

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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

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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

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assumptions underlying both scientific and legal practice. 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'.

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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

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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

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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

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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

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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

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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

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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

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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

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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.

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This rigorous and inspiring work makes an urgent call to radically redesign the welfare state. Huws argues that while the underlying principles of the welfare state (economic redistribution, universality of entitlement and

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collectively provided public services) must be preserved, its institutions need to be drastically changed to become fit for purpose for the 21st century. Huws incisively criticizes the existing welfare state before proposing

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concrete solutions to the problems she identifies. The book seeks to contribute positively to current debates on the left regarding alternatives to neoliberalism, and to intervene in discussions about manifesto demands and policy

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programmes for any new
government.

A Western Perspective

Trading Data in the Digital
Economy

Global Sustainability Inside and
Outside the Territory

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Computational Neuroaesthetics
Crimes, Contracts, and Torts
Between Truth and Power