Blockchain And The Law The Rule Of Code

The growth of Blockchain technology presents a number of legal questions for lawyers, regulators and industry participants alike. Primarily, regulators must allow Blockchain technology to develop whilst also ensuring it is not being abused. This book addresses the challenges posed by various applications of Blockchain technology, such as cryptocurrencies, smart contracts and initial coin offerings, across different fields of law. Contributors explore whether the problems posed by Blockchain and its applications can be addressed within the present legal system or whether significant rethinking is required.

In 25 concise steps, you will learn the basics of blockchain technology. No mathematical formulas, program code, or computer science jargon are used. No previous knowledge in computer science, mathematics, programming, or cryptography is required. Terminology is explained through pictures, analogies, and metaphors. This book bridges the gap that exists between purely technical books about the blockchain and purely business-focused books. It does so by explaining both the technical concepts that make up the blockchain and their role in business-relevant applications. What You'll Learn What the blockchain is Why it is needed and what problem it solves Why there is so much excitement about the blockchain and its potential Major components and their purpose How various components of the blockchain work and interact Limitations, why they exist, and what has been done to overcome them Major application scenarios Who This Book Is For Everyone who wants to get a general idea of what blockchain technology is, how it works, and how it will potentially change the financial system as we know it

An experimental new Internet-based form of money is created that anyone can generate at home; people build frightening firetrap computers full of video cards, putting out so much heat that one operator is hospitalised with heatstroke and brain damage. A young physics student starts a revolutionary new marketplace immune to State coercion; he ends up ordering hits on people because they might threaten his great experiment, and is jailed for life without parole. Fully automated contractual systems are proposed to make business and the law work better; the contracts people actually write are unregulated penny stock offerings whose fine print literally states that you are buying nothing of any value. The biggest crowdfunding in history attracts $150 million on the promise that it will embody “the steadfast iron will of unstoppable code”; upon release it is immediately hacked, and $50 million is stolen. How did we get here? David Gerard covers the origins and history of Bitcoin to the present day, the other cryptocurrencies it spawned including Ethereum, the ICO craze and the 2017 crypto bubble, and the attempts to apply blockchains and smart contracts to business. Plus a case study on blockchains in the music industry. Bitcoin and blockchains are not a technology story, but a psychology story. Remember: if it sounds too good to be true, it almost certainly is. “A sober riposte to all the upbeat forecasts about cryptocurrency” — New York Review of Books “A very convincing takedown of the whole phenomenon” — BBC News

“The importance of blockchain and cryptocurrencies continually evolving. The first book on this increasingly important topic, it is a pioneering and seminal read which aims to identify regulatory gaps and establish the first applicable legal framework. Written by well-known experts in cyber law, this reference work covers: · Blockchain - IP/ownership/legal consequences of use/areas of regulation · Crypto Assets - Security of wallets/IP/Data Sovereignty · The internet of things - Current regulation/ability of smart cities based on IOT to comply with pending legislation/regulation · The impact of GDPR/DPB · How Blockchain will impact on ownership of raw materials, eg energy, power and water
and the legal implications · Comparative international compliance regimes/cross border jurisdiction issues · International cyber enforcement and certification · Decentralised Autonomous Organisations (DAOs) · Regulation and liability Coverage of the FCA/Bank of England/UK Treasury discussion paper for cryptocurrencies is also included and the impact these guidelines will have on possible future regulations. Case studies, flowcharts and handy checklists are also included for ease of use. Essential reading for commercial practitioners, IT and IP practitioners, financial regulatory practitioners, corporate/white collar crime practitioners, property practitioners, in-house counsel, practitioners in private practice, particularly those who advise entrepreneurs, and corporate and individual investors.”--Bloomsbury Publishing.

THE LAW OF BITCOIN is the definitive guide to navigating the rules in the dynamic world of cryptocurrency. This book is the first of its kind delving into cryptocurrency law in four jurisdictions: Canada, Germany, the United Kingdom, and the United States. Written by knowledge leaders in the legal cryptocurrency space, THE LAW OF BITCOIN addresses such topics as the intersection of cryptocurrencies and criminal law, taxation, anti-money laundering and counter-terrorist financing regulations, securities law, consumer protection, negotiable instruments, currency law, and financial regulation. THE LAW OF BITCOIN will be a leading resource and go-to text both for those wishing to understand the basics of how the law affects cryptocurrency and for those in the legal community searching for sophisticated answers to more advanced questions. It is unique because the authors concisely and objectively explain how Bitcoin and bitcoin are lawfully viewed. They provide relevant, up-to-date clarity in a space that is often nebulous, confusing and filled with conflicting partisan information. The authors arrive at what will likely be unpopular conclusions that are only possible because they are not seeking to defend special interest groups. This includes issues such as fungibility which is handled in a manner that flips the conventional narrative within the Bitcoin community on its head, yet is important for any entrepreneur, developer, investor and user in the nascent space. THE LAW OF BITCOIN is a helpful guide to novices and veterans alike. Tim Swanson, author of THE ANATOMY OF A MONEY-LIKE INFORMATIONAL COMMODITY and GREAT CHAIN OF NUMBERS

This handbook will provide a comprehensive treatment of the gamut of issues and challenges that exist through the development of both cryptocurrencies and blockchain technology. This will not be confined to simply the investment potential within these new technological areas. We will examine the challenges in the regulatory, legal, taxation, accounting, modelling, ethical, macroeconomic impact and internationalization issues. Research on cryptocurrencies and blockchain technology has identified issues such as pricing abnormalities and bubble-like behavior, indicating that these new assets are highly speculative in nature, contain a growing number of legal abnormalities (such as the hacking of exchanges and broad theft of investor assets) and a growing number of significant regulatory issues. It is paramount that we investigate each of these issues in great detail to help to determine whether cryptocurrencies and blockchain technology merits consideration as a sustainable alternative investment asset. The handbook will be useful for specialist technical audiences such as legal, accounting and financial practices. It will also be beneficial for upper level masters and research students in economics, law, accounting, taxation, investment and portfolio management.

Blockchain Technology and the Law: Opportunities and Risks is one of the first texts to offer a critical analysis of Blockchain and the legal and economic challenges faced by this new technology. This book will offer those who are unfamiliar with Blockchain an introduction as to how the technology works and will demonstrate how a legal framework that governs it can be used to ensure that it can be successfully deployed. Discussions included in this book: - an introduction to smart contracts, and their potential, from a commercial and consumer law perspective,
to change the nature of transactions between parties; - the impact that Blockchain has already had on financial services, and the possible consumer risks and macro-economic issues that may arise in the future; - the challenges that are facing global securities regulators with the development of Initial Coin Offerings and the ongoing risks that they pose to the investing public; - the risk of significant privacy breaches due to the online public nature of Blockchain; and - the future of Blockchain technology. Of interest to academics, policy-makers, technology developers and legal practitioners, this book will provide a thorough examination of Blockchain technology in relation to the law from a comparative perspective with a focus on the United Kingdom, Canada and the United States.

The importance of blockchain and cryptocurrencies continually evolving. The first book on this increasingly important topic, it is a pioneering and seminal read which aims to identify regulatory gaps and establish the first applicable legal framework. Written by well-known experts in cyber law, this reference work covers: · Blockchain – IP/ownership/legal consequences of use/areas of regulation · Crypto Assets – Security of wallets/IP/Data Sovereignty · The internet of things – Current regulation/ability of smart cities based on IOT to comply with pending legislation/regulation · The impact of GDPR/DPB · How Blockchain will impact on ownership of raw materials, eg energy, power and water and the legal implications · Comparative international compliance regimes/cross border jurisdiction issues · International cyber enforcement and certification · Decentralised Autonomous Organisations (DAOs) – Regulation and liability Coverage of the FCA/Bank of England/UK Treasury discussion paper for cryptocurrencies is also included and the impact these guidelines will have on possible future regulations. Case studies, flowcharts and handy checklists are also included for ease of use. Essential reading for commercial practitioners, IT and IP practitioners, financial regulatory practitioners, corporate/white collar crime practitioners, property practitioners, in-house counsel, practitioners in private practice, particularly those who advise entrepreneurs, and corporate and individual investors.

As the distributed architecture underpinning the initial Bitcoin anarcho-capitalist, libertarian project, 'blockchain' entered wider public imagination and vocabulary only very recently. Yet in a short space of time it has become more mainstream and synonymous with a spectacular variety of commercial and civic 'problem'/solution' concepts and ideals. From commodity provenance, to electoral fraud prevention, to a wholesale decentralisation of power and the banishing of the exploitative practices of 'middlemen', blockchain stakeholders are nothing short of evangelical in their belief that it is a force for good. For these reasons and more the technology has captured the attention of entrepreneurs, venture capitalists, global corporations and governments the world over. Blockchain may indeed offer a unique technical opportunity to change cultures of transparency and trust within cyberspace, and as 'revolutionary' and 'disruptive' has the potential to shift global socioeconomic and political conventions. But as a yet largely unregulated, solutionist-driven phenomenon, blockchain exists squarely within the boundaries of capitalist logic and reason, fast becoming central to the business models of many sources of financial and political power the technology was specifically designed to undo, and increasingly allied to neoliberal strategies with scant regard for collective, political or democratic accountability in the public interest. Regulating Blockchain casts a critical eye over the technology, its 'ecosystem' of stakeholders, and offers a challenge to the prevailing discourse proclaiming it to be the great techno-social enabler of our times.
Can blockchain solve your biggest business problem? While the world is transfixed by bitcoin mania, your competitors are tuning out the noise and making strategic bets on blockchain. Your rivals are effortlessly tracking every last link in their supply chains. They're making bureaucratic paper trails obsolete while keeping their customers' data safer and discovering new ways to use this next foundational technology to sustain their competitive advantage. What should you be doing with blockchain now to ensure that your business is poised for success? "Blockchain: The Insights You Need from Harvard Business Review" brings you today's most essential thinking on blockchain, explains how to get the right initiatives started at your company, and prepares you to seize the opportunity of the coming blockchain wave. Business is changing. Will you adapt or be left behind? Get up to speed and deepen your understanding of the topics that are shaping your company's future with the Insights You Need from Harvard Business Review series. Featuring HBR's smartest thinking on fast-moving issues--blockchain, cybersecurity, AI, and more--each book provides the foundational introduction and practical case studies your organization needs to compete today and collects the best research, interviews, and analysis to get it ready for tomorrow. You can't afford to ignore how these issues will transform the landscape of business and society. The Insights You Need series will help you grasp these critical ideas--and prepare you and your company for the future.


Develop, validate, and deploy powerful decentralized applications using blockchain Get the most out of cutting-edge blockchain technology using the hands-on information contained in this comprehensive resource. Written by a team of technology and legal experts, Blockchain: A Practical Guide to Developing Business, Law, and Technology Solutions demonstrates each topic through a start-to-finish, illustrated case study. The book includes financial, technology, governance, and legal use cases along with advantages and challenges. Validation, implementation, troubleshooting, and best practices are fully covered. You will learn, step-by-step, how to build and maintain effective, reliable, and transparent blockchain solutions. •Understand the fundamentals of decentralized computing and blockchain•Explore business, technology, governance, and legal use cases•Review the evolving practice of law and technology as it
concerns legal and governance issues arising from blockchain implementation. Write and administer performant blockchain-enabled applications. Handle cryptographic validation in private, public, and consortium blockchains. Employ blockchain in cloud deployments and Internet of Things (IoT) devices. Incorporate Web 3.0 features with Swarm, IPFS, Storj, Golem, and WHISPER. Use Solidity to build and validate fully functional distributed applications and smart contracts using Ethereum. See how blockchain is used in crypto-currency, including Bitcoin and Ethereum. Overcome technical hurdles and secure your decentralized IT platform.

Blockchain has become attractive to companies and governments because it promises to solve the age-old problem of mutability in transactions - that is, it makes falsification and recalculation impossible once a transaction has been committed to the technology. However, the perceived complexity of implementing Blockchain calls for an in-depth overview of its key features and functionalities, specifically in a legal context. The systematic and comprehensive approach set forth in this indispensable book, including coverage of existing relevant law in various jurisdictions and practical guidance on how to tackle legal issues raised by the use of Blockchain, ensures a one-stop-shop reference book for anyone considering Blockchain-based solutions or rendering advice with respect to them. Within a clear structure by fields of law allowing for a systematic approach, each contributor - all of them are practitioners experienced with Blockchain projects within their respective areas of expertise - elucidates the implications of Blockchain technology and related legal issues under such headings as the following: technical explanation of Blockchain technology; contract law; regulatory issues and existing regulation in a variety of jurisdictions; data protection and privacy; capital markets; information security; patents and other intellectual property considerations; and antitrust law. Keeping the legal questions and concepts sufficiently generic so that lawyers can benefit from the handbook irrespective of their jurisdiction and legal background, the authors cover such specific characteristics of Blockchain implementation as so-called smart contracts, tokenization, distributed ledger technology, digital securities, recognition of code as law, data privacy challenges and Blockchain joint ventures. Because Blockchain is a relatively new technology still in process and raises a multitude of legal questions, this well-balanced introduction - at a depth that allows non-IT experts to understand the groundwork for legal assessments - provides a solid basis for organizations and their legal advisors in identifying and resolving Blockchain-related issues. Legal practitioners, in-house lawyers, IT professionals and advisors, consultancy firms, Blockchain associations and legal scholars will welcome this highly informative and practical book.

This important and topical book provides a comprehensive overview of the challenges raised by blockchain from the perspective of public law. It considers the ways in which traditional categories of public law such as sovereignty, citizenship and territory are shaped, as well as the impact of blockchain technology on fundamental rights and democratic
values.
The only guide you need to understand mechanics behind blockchain technology Today only, get this Amazon bestseller for just $15.38. Regularly priced at $17.38!What the book can offer...This book will help you better understand blockchain, a new computer technology that is changing everything from how financial transactions are made to financial systems themselves. Unlike many other new technologies that emerge on the market, blockchain does not build on pre-existing technology. It actually created an entirely new model for how computer programs can run: in a decentralized, peer-to-peer, open-source manner that is not only virtually impenetrable but also does not require trusted mediaries to authorize transactions.Blockchain's origins go back to the early 1990s, the time when the Internet was beginning to become more accessible to the public. The full concept was laid out in 2008 with Satoshi Nakamoto's white paper on his proposed cryptocurrency, Bitcoin. He developed the blockchain concept into a fully operational program that provides the best security features in all of cyber security. Some programmers saw that blockchain could be used for programs other than Bitcoin. They went on to develop powerful networks such as Ethereum and Blockstack, while other programmers began to experiment with other practical applications that blockchain had. The potential of blockchain is enormous. It enables highly secure transactions that cannot be tampered with. One feature of blockchain, the smart contract, even ensures that all parties involved in a contract carry out their prescribed duties - without the need for any trusted third party or middleman! Thus, there is no need for haggling, disputing claims, or going back and forth on each party's responsibility. Adoption of this technology by insurance, financial, and other institutions carries the potential to save on administrative costs. Blockchain smart contracts could even be used in elections by enabling voters to cast their votes from home and automatically tally them in such a way that the final numbers are indisputable; this has the potential to eliminate voter fraud, reverse low-voter turnout, and the margin of error in counting votes. Even so, the potential that blockchain technology has is only beginning to be recognized. In this book, you will find accurate, detailed information that will help you understand what blockchain is, how it is currently being used, and how you can use it. Here Is A Preview Of What You'll Learn... The history of blockchain technology Other technologies spawned from blockchain The mechanics behind how blockchain works Applications for blockchain Limitations and challenges of blockchain How to profit from blockchain How to build a mining rig Much, much more! Get your copy today!Take action today and buy this book for a limited time discount of only $15.38 Scroll up and click the buy button now!
There is a broad consensus amongst law firms and in-house legal departments that next generation “Legal Tech” – particularly in the form of Blockchain-based technologies and Smart Contracts – will have a profound impact on the future operations of all legal service providers. Legal Tech startups are already revolutionizing the legal industry by increasing
the speed and efficiency of traditional legal services or replacing them altogether with new technologies. This on-going process of disruption within the legal profession offers significant opportunities for all business. However, it also poses a number of challenges for practitioners, trade associations, technology vendors, and regulators who often struggle to keep up with the technologies, resulting in a widening regulatory “gap.” Many uncertainties remain regarding the scope, direction, and effects of these new technologies and their integration with existing practices and legacy systems. Adding to the challenges is the growing need for easy-to-use contracting solutions, on the one hand, and for protecting the users of such solutions, on the other. To respond to the challenges and to provide better legal communications, systems, and services Legal Tech scholars and practitioners have found allies in the emerging field of Legal Design. This collection brings together leading scholars and practitioners working on these issues from diverse jurisdictions. The aim is to introduce Blockchain and Smart Contract technologies, and to examine their on-going impact on the legal profession, business and regulators.

The convergence of Artificial Intelligence (AI) in blockchain creates one of the world’s most reliable technology-enabled decision-making systems that is virtually tamper-proof and provides solid insights and decisions. The integration of AI and Blockchain affects many aspects from food supply chain logistics and healthcare record sharing to media royalties and financial security. It is imperative that regulatory standards are emphasized in order to support positive outcomes from the integration of AI in blockchain technology. Regulatory Aspects of Artificial Intelligence on Blockchain provides relevant legal and security frameworks and the latest empirical research findings in blockchain and AI. Through the latest research and standards, the book identifies and offers solutions for overcoming legal consequences that pertain to the application of AI into the blockchain system, especially concerning the usage of smart contracts. The chapters, while investigating the legal and security issues associated with these applications, also include topics such as smart contacts, network vulnerability, cryptocurrency, machine learning, and more. This book is essential for technologists, security analysts, legal specialists, privacy and data security practitioners, IT consultants, standardization professionals, researchers, academicians, and students interested in blockchain and AI from a legal and security viewpoint.

How the blockchain—a system built on foundations of mutual mistrust—can become trustworthy. The blockchain entered the world on January 3, 2009, introducing an innovative new trust architecture: an environment in which users trust a system—for example, a shared ledger of information—without necessarily trusting any of its components. The cryptocurrency Bitcoin is the most famous implementation of the blockchain, but hundreds of other companies have been founded and billions of dollars invested in similar applications since Bitcoin's launch. Some see the blockchain as offering more opportunities for criminal behavior than benefits to society. In this book, Kevin Werbach shows how a technology resting on foundations of mutual mistrust can become trustworthy. The blockchain, built on open software and decentralized foundations that allow anyone to participate, seems like a threat to any
form of regulation. In fact, Werbach argues, law and the blockchain need each other. Blockchain systems that ignore law and governance are likely to fail, or to become outlaw technologies irrelevant to the mainstream economy. That, Werbach cautions, would be a tragic waste of potential. If, however, we recognize the blockchain as a kind of legal technology that shapes behavior in new ways, it can be harnessed to create tremendous business and social value.

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

Less than a decade after the Financial Crisis, we are witnessing the fast emergence of a new financial order driven by three different, yet interconnected, dynamics: first, the rapid application of technology - such as big data, machine learning, and distributed computing - to banking, lending, and investing, in particular with the emergence of virtual currencies and digital finance; second, a disintermediation fuelled by the rise of peer-to-peer lending platforms and crowd investment which challenge the traditional banking model and may, over time, lead to a transformation of the way both retail and corporate customers bank; and, third, a tendency of de-bureaucratisation under which new platforms and technologies challenge established organisational patterns that regulate finance and manage the money supply. These changes are to a significant degree driven by the development of blockchain technology. The aim of this book is to understand the technological and business potential of the blockchain technology and to reflect on its legal challenges. The book mainly focuses on the challenges blockchain technology has so far faced in its first application in the areas of virtual money and finance, as well as those that it will inevitably face (and is partially already facing, as the SEC Investigative Report of June 2017 and an ongoing SEC securities fraud investigation show) as its domain of application expands in other fields of economic activity such as smart contracts and initial coin offerings. The book provides an unparalleled critical analysis of the disruptive potential of this technology for the economy and the legal system and
contributes to current thinking on the role of law in harvesting and shaping innovation. The product of a unique collaboration between academic scholars, legal practitioners, and technology experts, this Handbook is the first of its kind to analyze the ongoing evolution of smart contracts, based upon blockchain technology, from the perspective of existing legal frameworks - namely, contract law. The book's coverage ranges across many areas of smart contracts and electronic or digital platforms to illuminate the impact of new, and often disruptive, technologies on the law. With a mix of scholarly commentary and practical application, chapter authors provide expert insights on the core issues involving the use of smart contracts, concluding that smart contracts cannot supplant contract law and the courts, but leaving open the question of whether there is a need for specialized regulations to prevent abuse. This book should be read by anyone interested in the disruptive effect of new technologies on the law generally, and contract law in particular.

Exploring blockchain and bitcoin, Magnuson shows how the technology rife with crime and speculation also offers innovation and hope. This open access book contributes to the creation of a cyber ecosystem supported by blockchain technology in which technology and people can coexist in harmony. Blockchains have shown that trusted records, or ledgers, of permanent data can be stored on the Internet in a decentralized manner. The decentralization of the recording process is expected to significantly economize the cost of transactions. Creating a ledger on data, a blockchain makes it possible to designate the owner of each piece of data, to trade data pieces, and to market them. This book examines the formation of markets for various types of data from the theory of market quality proposed and developed by M. Yano. Blockchains are expected to give data itself the status of a new production factor. Bringing ownership of data to the hands of data producers, blockchains can reduce the possibility of information leakage, enhance the sharing and use of IoT data, and prevent data monopoly and misuse. The industry will have a bright future as soon as better technology is developed and when a healthy infrastructure is created to support the blockchain market.

"Views differ on bitcoin, but few doubt the transformative potential of Blockchain technology. The Truth Machine is the best book so far on what has happened and what may come along. It demands the attention of anyone concerned with our economic future."
—Lawrence H. Summers, Charles W. Eliot University Professor and President Emeritus at Harvard, Former Treasury Secretary

From Michael J. Casey and Paul Vigna, the authors of The Age of Cryptocurrency, comes the definitive work on the Internet’s Next Big Thing: The Blockchain. Big banks have grown bigger and more entrenched. Privacy exists only until the next hack. Credit card fraud is a fact of life. Many of the “legacy systems” once designed to make our lives easier and our economy more efficient are no longer up to the task. Yet there is a way past all this—a new kind of operating system with the potential to revolutionize vast swaths of our economy: the blockchain. In The Truth Machine, Michael J. Casey and Paul Vigna demystify the blockchain and explain why it can restore personal control over our data, assets, and identities; grant billions of excluded people access to the global economy; and shift the balance of power to revive society’s faith in itself. They reveal the disruption it promises for industries including finance, tech, legal, and shipping. Casey and Vigna expose the challenge of replacing trusted (and not-so-
trusted) institutions on which we’ve relied for centuries with a radical model that bypasses them. The Truth Machine reveals the empowerment possible when self-interested middlemen give way to the transparency of the blockchain, while highlighting the job losses, assertion of special interests, and threat to social cohesion that will accompany this shift. With the same balanced perspective they brought to The Age of Cryptocurrency, Casey and Vigna show why we all must care about the path that blockchain technology takes—moving humanity forward, not backward.

Written by prominent thought leaders in the global fintech and legal space, The LegalTech Book aggregates diverse expertise into a single, informative volume. Key industry developments are explained in detail, and critical insights from cutting-edge practitioners offer first-hand information and lessons learned. Coverage includes:

- The current status of LegalTech, why now is the time for it to boom, the drivers behind it, and how it relates to FinTech, RegTech, InsurTech, WealthTech and PayTech
- Applications of AI, machine learning and deep learning in the practice of law; e-discovery and due diligence; AI as a legal predictor
- LegalTech making the law accessible to all; online courts, online dispute resolution
- The Uberization of the law; hiring and firing through apps; Lawbots; social media meets legal advice
- To what extent does LegalTech make lawyers redundant or more efficient?
- Cryptocurrencies, distributed ledger technology and the law
- The Internet of Things, data privacy, automated contracts
- Cybersecurity and data
- Technology vs. the law; driverless cars and liability, legal rights of robots, ownership rights over works created by technology
- Legislators as innovators
- Practical LegalTech solutions helping Legal departments in corporations and legal firms alike to get better legal work done at lower cost

Finck examines the emergence of blockchains (and other forms of distributed ledger technologies) and the implications for regulation and governance.

The book highlights the rise of Bitcoin, which is based on blockchain technology, and some of the many types of coins and tokens that emerged thereafter. Although Bitcoin and other cryptocurrencies have made national and international news with their dramatic rise and decline in value, nevertheless the underlying technology is being adopted by both industry and governments, which have noted the benefits of speed, cost efficiency, and protection from hacking. Based on numerous downloaded articles, laws, cases, and other materials, the book discusses the digital transformation, the types of cryptocurrencies, key actors, and the benefits and risks. It also addresses legal issues of digital technology and the evolving U.S. federal regulation. The varying treatment by individual U.S. states is reviewed together with attempts by organizations to arrive at a uniform regulatory regime. Both civil and criminal prosecutions are highlighted with an examination of the major cases that have arisen. Whether and how to tax cryptocurrency transactions both in the U.S. and internationally are analyzed, and ends with a speculative narrative of future developments.
Since Bitcoin appeared in 2009, the digital currency has been hailed as an Internet marvel and decried as the preferred transaction vehicle for all manner of criminals. It has left nearly everyone without a computer science degree confused: Just how do you “mine” money from ones and zeros? The answer lies in a technology called blockchain, which can be used for much more than Bitcoin. A general-purpose tool for creating secure, decentralized, peer-to-peer applications, blockchain technology has been compared to the Internet itself in both form and impact. Some have said this tool may change society as we know it. Blockchains are being used to create autonomous computer programs known as “smart contracts,” to expedite payments, to create financial instruments, to organize the exchange of data and information, and to facilitate interactions between humans and machines. The technology could affect governance itself, by supporting new organizational structures that promote more democratic and participatory decision making. Primavera De Filippi and Aaron Wright acknowledge this potential and urge the law to catch up. That is because disintermediation—a blockchain’s greatest asset—subverts critical regulation. By cutting out middlemen, such as large online operators and multinational corporations, blockchains run the risk of undermining the capacity of governmental authorities to supervise activities in banking, commerce, law, and other vital areas. De Filippi and Wright welcome the new possibilities inherent in blockchains. But as Blockchain and the Law makes clear, the technology cannot be harnessed productively without new rules and new approaches to legal thinking.

This book examines the legal and regulatory aspects of cryptocurrency and blockchain and the emerging practical issues that these issues involve. The analysis covers a range of advanced economies across the world, in America, Europe and Asia. The book describes, explains and analyses the nature of cryptocurrencies and the blockchain systems they are constructed on in these major world economies and considers relevant law and regulation and their shortcomings. It will be of use and interest to academics, lawyers, regulators and anyone involved with cryptocurrencies and blockchain. This volume explores from a legal perspective, how blockchain works. Perhaps more than ever before, this new technology requires us to take a multidisciplinary approach. The contributing authors, which include distinguished academics, public officials from important national authorities, and market operators, discuss and demonstrate how this technology can be a driver of innovation and yield positive effects in our societies, legal systems and economic/financial system. In particular, they present critical analyses of the potential benefits and legal risks of distributed ledger technology, while also assessing the opportunities offered by blockchain, and possible modes of regulating it. Accordingly, the discussions chiefly focus on the law and governance of blockchain, and thus on the paradigm shift that this technology can bring about.

Blockchain for Healthcare Systems: Challenges, Privacy, and Securing of Data provides a detailed insight on how to reap
the benefits of blockchain technology in healthcare, as the healthcare sector faces several challenges associated with privacy and security issues. It also provides in-depth knowledge regarding blockchain in healthcare and the underlying components. This book explores securing healthcare data using blockchain technology. It discusses challenges and solutions for blockchain technology in the healthcare sector and presents the digital transformation of the healthcare sector using different technologies. It covers the handling of healthcare data/medical records and managing the medical supply chain all using blockchain technology. The contents of this book are highly beneficial to educators, researchers, and others working in a similar domain.

There's a common belief that cyberspace cannot be regulated—that it is, in its very essence, immune from the government's (or anyone else's) control. Code argues that this belief is wrong. It is not in the nature of cyberspace to be unregulable; cyberspace has no "nature." It only has code—the software and hardware that make cyberspace what it is. That code can create a place of freedom—as the original architecture of the Net did—or a place of exquisitely oppressive control. If we miss this point, then we will miss how cyberspace is changing. Under the influence of commerce, cyberspace is becoming a highly regulable space, where our behavior is much more tightly controlled than in real space. But that's not inevitable either. We can—we must—choose what kind of cyberspace we want and what freedoms we will guarantee. These choices are all about architecture: about what kind of code will govern cyberspace, and who will control it. In this realm, code is the most significant form of law, and it is up to lawyers, policymakers, and especially citizens to decide what values that code embodies.

Handbook of Blockchain Law provides an overview of the key features and functionalities of blockchain technology in a legal context in a remarkably descriptive way. Blockchain has become attractive to companies and governments as it promises to solve the age-old problem of mutability in transactions—that is, it makes falsification and recalculation impossible once a transaction has been committed to the technology. The systematic and comprehensive approach set forth in this book, including coverage of existing relevant law in various jurisdictions with a particular focus on European law and US law and practical guidance on how to tackle legal issues raised by the use of blockchain, ensures a one-stop-shop reference book for anyone considering blockchain-based solutions or rendering advice for them.

This innovative and original book explores the relationship between blockchain and antitrust, highlighting the mutual benefits that stem from cooperation between the two and providing a unique perspective on how law and technology could cooperate. This textbook focuses on distributed ledger technology (DLT) and its potential impact on society at large. It aims to offer a detailed and self-contained introduction to the founding principles behind DLT accessible to a well-educated but not necessarily mathematically oriented audience. DLT allows solving many complicated problems arising in economics, banking, and finance, industry, trade, and other fields. However, to reap the ultimate benefits, one has to overcome some of its inherent limitations and
use it judiciously. Not surprisingly, amid increasing applications of DLT, misconceptions are formed over its use. The book thoroughly dispels these misconceptions via an impartial assessment of the arguments rooted in scientific reasoning. Blockchain and Distributed Ledgers: Mathematics, Technology, and Economics offers a detailed and self-contained introduction to DLT, blockchains, and cryptocurrencies and seeks to equip the reader with an ability to participate in the crypto economy meaningfully. Every year, there are advances in the way that we deal with information as individuals, governments, and organizations. We live and work predominantly online resulting in an enormous amount of digital data. The way that information is used is constantly changing with individuals, governments, and corporations all involved in collecting, storing, using, disclosing, and transferring information online. The growth in artificial intelligence and its effects on data will impact all individuals. It is imperative that a greater understanding of these new advances is gained, in particular, the legal implications they have for society. Legal Regulations, Implications, and Issues Surrounding Digital Data is an essential research publication that assists readers in understanding the current technology they are using, how digital data is being used by governments and organizations, and the current legal issues surrounding these areas that set out challenges in everyday life. Highlighting topics such as data protection, cybercrime, and privacy, this book is ideal for lawyers, academicians, IT specialists, policymakers, cybersecurity professionals, law professionals, researchers, academicians, and students. This key textbook examines the financial growth and success of digital assets in the contemporary economy. As digital assets and other blockchain applications mature, and regulatory authorities work hard to keep pace, three leading attorneys in the field invite students to consider the legal frameworks pertinent to regulating this new method of exchange. In this, the first textbook of its kind, the authors explore the growth of smart contracts, the application of securities laws to token sales, the regulation of virtual currency businesses, the taxation of digital assets and the intersection of digital assets and criminal law. Blockchain and the Law The Rule of Code Harvard University Press

Blockchain technologies, as an emerging distributed architecture and computing paradigm, have accelerated the development/application of the Cloud/GPU/Edge Computing, Artificial Intelligence, cyber physical systems, social networking, crowdsourcing and crowdsensing, 5G, trust management, and finance. The popularity and rapid development of Blockchain brings many technical and regulatory challenges for research and academic communities. This book will feature contributions from experts on topics related to performance, benchmarking, durability, robustness, as well data gathering and management, algorithms, analytics techniques for transactions processing, and implementation of applications.

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