A Next Generation Smart Contract Decentralized

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.

The 13th International Symposium on Distributed Computing and Artificial Intelligence 2016 (DCAI 2016) is a forum to present applications of innovative techniques for studying and solving complex problems. The exchange of ideas between scientists and technicians from both the academic and industrial sector is essential to facilitate the development of systems that can meet the ever-increasing demands of today's society. The present edition brings together past experience, current work and promising future trends associated with distributed computing, artificial intelligence and their application in order to provide efficient solutions to real problems. This symposium is organized by the University of Sevilla (Spain), Osaka Institute of Technology (Japan), and the Universiti Teknologi Malaysia (Malaysia)

This book presents groundbreaking discussions on e-residency, cryptocurrencies, scams, smart contracts, 3D printing, software agents, digital evidence and e-governance at the intersection of law, legal policies and modern technologies. The reader benefits from cutting-edge analyses that offer ideas and solutions to some of the most pressing issues caused by e-technologies. This collection is a useful tool for law and IT practitioners and an inspiring source for interdisciplinary research. Besides serving as a practical guideline, this book also reflects theoretical dimensions of future perspectives, as new technologies are not meant to change common values but to accommodate them.

This book is for strategists0?4leaders, managers, entrepreneurs0?4who are so caught up in the daily pressures of business that they're missing key signals of their future reality. It's like driving a car heads down, staring at the dashboard, rather than heads up, looking through the windshield. We need to do both. The book is devoted to the practice of sensing, or scanning the horizon for signs of emerging trends. The sooner we see them, the better our response.Each chapter starts with a set of signals0?4data we observed that, taken together, helped us to reveal a trend. The impact of new technology on strategy is a theme of the book, and each chapter looks at how organizations are using new technologies to their advantage.The goal is to spark meaningful conversations within organizations: How could we participate in the collaborative economy? What could our CIO and our CMO be doing to drive strategy, innovation, and revenue growth? What could we do to leverage the Internet of Things and intelligent automation as catalysts of invention? Could we use MOOCs as pivots for corporate training, recruiting, and marketing? How might technology transform the manufacturing process, our supply chain, and the knowledge work that we do? Could we take advantage of the renaissance in domestic energy (oil and gas)? What could we be doing to counter cyber crime? What is our organization doing to tune into signals of emerging trends that may be relevant to us?In an environment where the pace of change is accelerating, sensing has become an essential discipline for all organizations. No matter your role in an organization, sensing emerging trends can make you more effective and more valuable in your work. If you've been working too heads-down lately and feel overwhelmed by data and deadlines, then this book is for you. It's a quick read designed to give you a heads up on your horizon.

Written by security experts at the forefront of this dynamic industry, this book teaches state-of-the-art smart contract security principles and practices. Smart contracts are an innovative application of blockchain technology. Acting as decentralized custodians of digital assets, they allow us to transfer value and information more effectively by reducing the need to trust a third party. By eliminating the need for intermediaries, smart contracts have the potential to massively scale the world economy and unleash the potential for faster and more efficient solutions than traditional systems could ever provide. But there's one catch: while blockchains are secure, smart contracts are not. Security vulnerabilities in smart contracts have led to over $250 million USD in value to be lost or stolen. For smart contract technology to achieve its full potential, these security vulnerabilities need to be addressed. Written by security experts at the forefront of this dynamic industry, this book teaches state-of-the-art smart contract security principles and practices. Help us secure the future of blockchain technology and join us at the forefront today!

This book discusses the evolution of future-generation technologies through the Internet of things, bringing together all the related technologies on a single platform to offer valuable insights for undergraduate and postgraduate students, researchers, academics and industry practitioners. The book uses data, network engineering and intelligent decision- support system-by-design principles to design a reliable IoT-enabled ecosystem and to implement cyber-physical pervasive infrastructure solutions. It takes readers on a journey that begins with understanding the insight paradigm of IoT-enabled technologies and how it can be applied. It walks readers through engaging with real-time challenges and building a safe infrastructure for IoT-based, future-generation technologies. The book helps researchers and practitioners to understand the design architecture through IoT and the state of the art in IoT countermeasures. It also highlights the differences between heterogeneous platforms in IoT-enabled infrastructure and traditional ad hoc or infrastructural networks, and provides a comprehensive discussion on functional frameworks for IoT, object identification, IoT domain model, RFID technology, wearable sensors, WBAN, IoT semantics, knowledge extraction, and security and privacy issues in IoT-based ecosystems. Written by leading international experts, it explores IoT-enabled insight paradigms, which are utilized for the future benefit of humans. It also includes references to numerous works. Divided into stand-alone chapters, this highly readable book is intended for specialists, researchers, graduate students, designers, experts, and engineers involved in research on healthcare-related issues.

This book constitutes the refereed proceedings of 5 workshops held at the 21st International Conference on Financial Cryptography and Data Security, FC 2017, in Sliema, Malta, in April 2017.The 39 full papers presented were carefully reviewed and selected from 96 submissions. They feature the outcome of the 5th Workshop on Encrypted Computing and Applied Homomorphic Cryptography, WAHC 2017, the 4th Workshop on Bitcoin and Blockchain Research, BITCOIN 2017, the Second Workshop on Secure Voting Systems, VOTING 2017, the First Workshop on Trusted Smart Contracts, WTSC 2017, and the First Workshop on Targeted Attacks, TA 2017.The papers are grouped in topical sections named: encrypted computing and applied homomorphic cryptography; bitcoin and blockchain research; advances in secure electronic voting schemes; trusted smart contracts; targeted attacks.

This book constitutes the refereed proceedings of the First International Conference on Blockchain, ICBC 2018, held as part of the Services Conference Federation, SCF 2018, in Seattle,

USA, in June 2018. The 16 full papers and 7 short papers presented were carefully reviewed and selected from 36 submissions. The papers cover a wide range of topics in blockchain technologies, platforms, solutions and business models such as new blockchain architecture, platform constructions, blockchain development and blockchain services technologies as well as standards, and blockchain services innovation lifecycle including enterprise modeling, business consulting, solution creation, services orchestration, services optimization, services management, services marketing, business process integration and management.

This book is the first to present the state of the art and provide technical focus on the latest advances in the foundations of blockchain systems. It is a collaborative work between specialists in cryptography, distributed systems, formal languages, and economics, and addresses hot topics in blockchains from a theoretical perspective: cryptographic primitives, consensus, formalization of blockchain properties, game theory applied to blockchains, and economical issues. This book reflects the expertise of the various authors, and is intended to benefit researchers, students, and engineers who seek an understanding of the theoretical foundations of blockchains.

THIS BOOK INCLUDES 3 MANUSCRIPTS: -BOOK 1 - WHAT ARE THE BEST ORACLE COINS, DAPPS, DEX & PRIVACY COINS-BOOK 2 - HOW TO TRADE AND INVEST IN BITCOIN OPTIONS, SUPPLY CHAIN & SMART CONTRACT BLOCKCHAINS-BOOK 3 - HOW TO INVEST IN CROSS-CHAIN DERIVATIVES, CRYPTO IPO-S AND VIRTUAL WORLDSGET THIS BOOK NOW AND START INVESTING TODAY!Book 1: -How to analyze the short to medium term price potential of any Crypto Asset-What are Uniswap and PancakeSwap, their tokenomics and potential price-What are the two best privacy coins for 2021-What tokenomic factors you need to know when vetting a cryptocurrecny or token to maximise your gains -What is the current leader in the layer 2 space -What is the best DeFi Protocol -What is the Best Oracle Cryptos and DAPps -What is Polkadot, it's massive price potential, what it's planning and why it may just become one of the biggest cryptos of 2021. -What is the best DEX aggregator and automated market maker -What is the best Smart Contract BlockchainBook 2: -Bitcoin Options Trading Tips-How to do your own Crypto Research-What to expect from the Crypto Market-Comprehending Diem's Tokenomics-How to Invest in Decentralized Video Streaming-How to Invest in Smart Contract Cryptocurrency-How to invest in Privacy Based Blockchains-How to invest in Supply Chain Blockchains-How to Invest in Stablecoins-How to Avoid Crypto ScamsBook 3: -Tesla VS Bitcoin Trading-How to Invest in Next Generation Blockchains-How to Invest in Smart Contract Blockchains-How to Invest in Decentralized Storage Network-Cross-chain Derivative Trading-How to Invest in DEXs-How to Invest in Virtual Worlds-How to Invest in Crypto Lending Platforms-How to Invest in Open Source Dapps-How to Invest in Crypto IPOs-The future of Interoperable Smart ContractsBUY THIS BOOK NOW AND GET STARTED TODAY!

Recent innovations have created significant developments in data storage and management. These new technologies now allow for greater security in databases and other applications. Decentralized Computing Using Blockchain Technologies and Smart Contracts: Emerging Research and Opportunities is a concise and informative source of academic research on the latest developments in block chain innovation and their application in contractual agreements. Highlighting pivotal discussions on topics such as cryptography, programming techniques, and decentralized computing, this book is an ideal publication for researchers, academics, professionals, students, and practitioners seeking content on utilizing block chains with smart contracts.

What pros and cons do you see with smart contracts? Which supply chain processes are suitable for smart contracts? What are the requirements (success criteria) out of the supply chain for Smart Contract design? Have you ever thought to use smart contracts within your supply chain? Which supply chain processes are suitable for smart contracts (and which are not)? This easy Smart contract self-assessment will make you the accepted Smart contract domain veteran by revealing just what you need to know to be fluent and ready for any Smart contract challenge. How do I reduce the effort in the Smart contract work to be done to get problems solved? How can I ensure that plans of action include every Smart contract task and that every Smart contract outcome is in place? How will I save time investigating strategic and tactical options and ensuring Smart contract costs are low? How can I deliver tailored Smart contract advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Smart contract essentials are covered, from every angle: the Smart contract self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Smart contract outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Smart contract practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Smart contract are maximized with professional results. Your purchase includes access details to the Smart contract self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Smart contract Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

This book presents emerging concepts in data mining, big data analysis, communication, and networking technologies, and discusses the state-of-the-art in data engineering

practices to tackle massive data distributions in smart networked environments. It also provides insights into potential data distribution challenges in ubiquitous data-driven networks, highlighting research on the theoretical and systematic framework for analyzing, testing and designing intelligent data analysis models for evolving communication frameworks. Further, the book showcases the latest developments in wireless sensor networks, cloud computing, mobile network, autonomous systems, cryptography, automation, and other communication and networking technologies. In addition, it addresses data security, privacy and trust, wireless networks, data classification, data prediction, performance analysis, data validation and verification models, machine learning, sentiment analysis, and various data analysis techniques.

This book constitutes the proceedings of the 13th International Conference on Network and System Security, NSS 2019, held in Sapporo, Japan, in December 2019. The 36 full papers and 7 short papers presented together with 4 invited papers in this book were carefully reviewed and selected from 89 initial submissions. The papers cover a wide range of topics in the field, including authentication, access control, availability, integrity, privacy, confidentiality, dependability and sustainability of computer networks and systems.

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.

THIS BOOK INCLUDES 6 MANUSCRIPTS: -BOOK 1 - EXCHANGES, TAX STRATEGIES AND HOW TO FIND 100X ALTCOINS-BOOK 2 - HOW TO MAXIMISE YOUR PROFITS IN THE BULL MARKET USING TECHNICAL ANALYSIS-BOOK 3 - HOW TO PROFIT ON GAS FEES, DEFI PROTOCOLS AND EXCHANGE TOKENS-BOOK 4 - WHAT ARE THE BEST ORACLE COINS, DAPPS, DEX & PRIVACY COINS-BOOK 5 - HOW TO TRADE AND INVEST IN BITCOIN OPTIONS, SUPPLY CHAIN & SMART CONTRACT BLOCKCHAINS-BOOK 6 - HOW TO INVEST IN CROSS-CHAIN DERIVATIVES, CRYPTO IPO-S AND VIRTUAL WORLDSGET THIS BOOK NOW AND START INVESTING TODAY!Book 1: -Fundamentals of Bitcoin, Altcoins, Tokens and other crypto assets-Why Tesla, Mastercard and PayPal invested in Bitcoin-Which asset is better: Bitcoin Or Ethereum-How Bitcoin works-How to Buy Bitcoin Safely-How to keep your crypto safe-How to make the best Investment Decisions-Where To Find 100x Tokens Early-Crypto Tax Strategies-How to Find 100x Token Sales-What are the Best 5 Altcoin Picks for 2021 and beyondBook 2: -Must Have Crypto Trading Apps-Ether Futures & CME Group-Technical Analysis For Crypto-How to Maximise The Bull Run-Must Have DeFi Crypto Card-Trading With EWT Tokens-How to Invest In NFT Tokens-How to Use Crypto Lending Platforms-How to Max Crypto Card Rewards-How to Tokenize Risk With DeFiBook 3: -Why the decline of the US Dollar is one of the most bullish for Bitcoin -What happens when all the Bitcoin are mined -What are the safest crypto wallets -How to buy cryptocurrency safely-How to reduce Ethereum gas fees and how to profit from it-How to use lending protocols for crypto loans using Litentry -How to profit from centralized DeFi ecosystems such as Kusama and ThorChain -How to profit from Cardano and Polkadot -How to Profit from Trading Tokens such as BNB, Huobi and FTX token -How to trade any cryptocurrency on Binance and more!Book 4: -How to analyze the short to medium term price potential of any Crypto Asset-What are Uniswap and PancakeSwap, their tokenomics and potential price-What are the two best privacy coins for 2021-What tokenomic factors you need to know when vetting a cryptocurrecny or token to maximise your gains -What is the current leader in the layer 2 space -What is the best DeFi Protocol -What is the Best Oracle Cryptos and DAPps -What is Polkadot, it's massive price potential, what it's planning and why it may just become one of the biggest cryptos of 2021. -What is the best DEX aggregator and automated market maker -What is the best Smart Contract BlockchainBook 5: -Bitcoin Options Trading Tips-How to do your own Crypto Research-What to expect from the Crypto Market-Comprehending Diem's Tokenomics-How to Invest in Decentralized Video Streaming-How to Invest in Smart Contract Cryptocurrency-How to invest in Privacy Based Blockchains-How to invest in Supply Chain Blockchains-How to Invest in Stablecoins-How to Avoid Crypto ScamsBook 6: -Tesla VS Bitcoin Trading-How to Invest in Next Generation Blockchains-How to Invest in Smart Contract Blockchains-How to Invest in Decentralized Storage Network-Cross-chain Derivative Trading-How to Invest in DEXs-How to Invest in Virtual Worlds-How to Invest in Crypto Lending Platforms-How to Invest in Open Source Dapps-How to Invest in Crypto IPOs-The future of Interoperable Smart ContractsBUY THIS BOOK NOW AND GET STARTED TODAY!

?This book is open access under a CC BY 4.0 license. This book constitutes the refereed proceedings of the 11th IFIP WG 6.6 International Conference on Autonomous Infrastructure, Management, and Security, AIMS 2017, held in Zurich, Switzerland, in July 2017. The 8 full papers presented together with 11 short papers were carefully reviewed and selected from 24 submissions. The papers are organized in the following topical sections: security management; management of cloud environments and services, evaluation and experimental study of rich network services; security, intrusion detection, and configuration; autonomic and self-management solutions; and methods for the protection of infrastructure.

Does the fabric implementation support smart contract logic? While it seems technically very likely that smart contracts can be programmed to execute the lifecycle events of a financial asset, and that those assets can be legally enshrined in computer code as a smart asset, how are they governed by law? does the platform possess features, such as smart contracts, that meet the needs of the business use case? Smart contracts: the ultimate automation of trust? Which supply chain processes are suitable for smart contracts? This powerful Smart Contract self-assessment will make you the reliable Smart Contract domain assessor by revealing just what you need to know to be fluent and ready for any Smart Contract challenge. How do I reduce the

effort in the Smart Contract work to be done to get problems solved? How can I ensure that plans of action include every Smart Contract task and that every Smart Contract outcome is in place? How will I save time investigating strategic and tactical options and ensuring Smart Contract costs are low? How can I deliver tailored Smart Contract advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Smart Contract essentials are covered, from every angle: the Smart Contract self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Smart Contract outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Smart Contract practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Smart Contract are maximized with professional results. Your purchase includes access details to the Smart Contract self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Smart Contract Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

This book constitutes the refereed proceedings of the 26th Australasian Conference on Information Security and Privacy, ACISP 2021, held in Perth, WA, Australia, in November 2021. The 35 full papers presented were carefully revised and selected from 157 submissions. The papers present and discuss all aspects of information security and privacy as well as machine learning for privacy and much more.

This book constitutes the proceedings of the 6th International Conference on Principles of Security and Trust, POST 2017, which took place in Uppsala, Sweden in April 2017, held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2017. The 14 papers presented in this volume were carefully reviewed and selected from 40 submissions. They were organized in topical sections named: information flow; security protocols; security policies; and information leakage.

This book constitutes the proceedings of the 13th International Conference on Information Security and Practice and Experience, ISPEC 2017, held in Melbourne, Australia, in December 2017. The 34 full and 14 short papers presented together with 9 papers from the SocialSec Track in this volume were carefully reviewed and selected from 105 submissions. The papers cover topics such as blockchain, asymmetric encryption, symmetric encryption, lattice-based cryptography, searchable encryption, signature, authentication, cloud security, network security, cyber-physical security, social network and QR code security, software security and trusted computing, and SocialSec track.

This book constitutes the refereed proceedings of the 10th International RuleML Symposium, RuleML 2016, held in New York, NY, USA during July 2016. The 19 full papers, 1 short paper, 2 keynote abstracts, 2 invited tutorial papers, 1 invited standard paper, presented were carefully reviewed and selected from 36 submissions. RuleML is a leading conference aiming to build bridges between academia and industry in the field of rules and its applications, especially as part of the semantic technology stack. It is devoted to rule-based programming and rule-based systems including production rule systems, logic programming rule engines, and business rule engines and business rule management systems, Semantic Web rule languages and rule standards and technologies, and research on inference rules, transformation rules, decision rules, and ECA rules.

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.

This book constitutes the proceedings of the 15th International Conference on Information Systems Security, ICISS 2019, held in Hyderabad, India, in December 2019. The 13 revised full papers and 4 short papers presented in this book together with 4 abstracts of invited talks were carefully reviewed and selected from 63 submissions. The papers cover topics such as: smart contracts; formal techniques; access control; machine learning; distributed systems; cryptography; online social networks; images and cryptography.

This book gathers selected papers presented at the 2020 World Conference on Information Systems and Technologies (WorldCIST'20), held in Budva, Montenegro, from April 7 to 10, 2020. WorldCIST provides a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences with and challenges regarding various aspects of modern information systems and technologies. The main topics covered are A) Information and Knowledge Management; B) Organizational Models and Information Systems; C) Software and Systems Modeling; D) Software Systems, Architectures, Applications and Tools; E) Multimedia Systems and Applications; F) Computer Networks, Mobility and Pervasive Systems; G) Intelligent and Decision Support Systems; H) Big Data Analytics and Applications; I) Human–Computer Interaction; J) Ethics, Computers & Security; K) Health Informatics; L) Information Technologies in Education; M) Information Technologies in Radiocommunications; and N) Technologies for Biomedical Applications.

A Developer's Guide to Blockchain Programming Fundamentals Blockchain development is entering a period of explosive growth, as real applications gain traction throughout multiple industries and cryptocurrencies earn greater acceptance throughout the financial sector. Blockchain represents one of the most promising opportunities for developers to advance and succeed. Building Blockchain Apps is an accessible guide to today's most advanced and robust blockchain programming models and architectures. Building on his pioneering experience, Michael Juntao Yuan covers a wide range of blockchain application development paradigms. The book starts with a concise introduction to blockchain and smart contract technologies. It then guides you through application development on Ethereum-compatible

smart contract platforms. Ethereum is the largest and most robust blockchain ecosystem in the world. Coverage includes Ethereum topics such as tools, application frameworks, internal data structures, external data interfaces, and future roadmap An introduction to new blockchain data protocol based on ElasticSearch, which provides insights into the current state of smart contracts and enables new application designs How to build an application-specific smart contract protocol by modifying and customizing the open source Ethereum Virtual Machine and its programming language tools How to extend and support language features that are most suitable for particular kinds of smart contracts (e.g., smart contracts for e-commerce marketplaces) with the open source Lity project How to customize and change the blockchain consensus layer beneath the application layer via the popular Tendermint and Cosmos SDK frameworks A survey of cryptocurrency and financial topics from the developers' point of view, providing an analytical framework for valuating cryptocurrencies and explaining the roles of crypto exchanges Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

This double volumes LNCS 10573-10574 constitutes the refereed proceedings of the Confederated International Conferences: Cooperative Information Systems, CoopIS 2017, Ontologies, Databases, and Applications of Semantics, ODBASE 2017, and Cloud and Trusted Computing, C&TC, held as part of OTM 2017 in October 2017 in Rhodes, Greece. The 61 full papers presented together with 19 short papers were carefully reviewed and selected from 180 submissions. The OTM program every year covers data and Web semantics, distributed objects, Web services, databases, information systems, enterprise workflow and collaboration, ubiquity, interoperability, mobility, grid and high-performance computing.

This book constitutes the proceedings of the 6th International Symposium on Dependable Software Engineering, SETTA 2020, held in Guangzhou, China, in November 2020. The 10 full and 1 short paper included in this volume were carefully reviewed and selected from 20 submissions. They deal with latest research results and ideas on bridging the gap between formal methods and software engineering.

This book constitutes the refereed proceedings of the Second CCF China Blockchain Conference, CBCC 2019, held in Chengdu, China, in October 2019. The 16 revised full papers presented were carefully reviewed and selected from 112 submissions. The papers deal with research results and development activities in all aspects of blockchain science and technology.

'Downright revolutionary... the title is a major understatement... 'Quantum Programming' may ultimately change the way embedded software is designed.' -- Michael Barr, Editor-in-Chief, Embedded Systems Programming magazine (Click here

This book focuses on the values of blockchain across industries. If you think that blockchain is everything you don't understand about technology, finance, and law mixed together, then this book will help you appreciate its value more clearly. While it is a complex technology that is still largely experimental today, it will be transformative in the future. This book focuses on the values of blockchain across industries. Among other things, it explores how blockchain technology adds value to data management, security, and sharing as well as ownership, property, collaboration, and trust. It also explores the possibilities of the Blockchain-as-a-Service (BaaS), digital goods or dGoods, and the transformative power of small acts and micropayments.

This book gathers the proceedings of the 9th International Conference on Frontier Computing, held in Kyushu, Japan on July 9–12, 2019, and provides comprehensive coverage of the latest advances and trends in information technology, science and engineering. It addresses a number of broad themes, including communication networks, business intelligence and knowledge management, web intelligence, and related fields that inspire the development of information technology. The respective contributions cover a wide range of topics: database and data mining, networking and communications, web and internet of things, embedded systems, soft computing, social network analysis, security and privacy, optical communication, and ubiquitous/pervasive computing. Many of the papers outline promising future research directions, and the book will benefit students, researchers and professionals alike. Further, it offers a useful reference guide for newcomers to the field.

Does it promote transfer of risk and insurance of risk over prevention of risk or management of risk? What is the total Market Opportunity from the Unbanked Population? How does a typical blockchain transaction work? What are current challenges in smart contract development using Solidity? When providing assurance across a blockchain, who is the client? This premium Smart Contracts self-assessment will make you the accepted Smart Contracts domain assessor by revealing just what you need to know to be fluent and ready for any Smart Contracts challenge. How do I reduce the effort in the Smart Contracts work to be done to get problems solved? How can I ensure that plans of action include every Smart Contracts task and that every Smart Contracts outcome is in place? How will I save time investigating strategic and tactical options and ensuring Smart Contracts costs are low? How can I deliver tailored Smart Contracts advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Smart Contracts essentials are covered, from every angle: the Smart Contracts self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Smart Contracts outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Smart Contracts practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Smart Contracts are maximized with professional results. Your purchase includes access details to the Smart Contracts self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Smart Contracts Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

International Trade Statistics 2015 provides a detailed overview of the latest developments in world trade, covering both merchandise and services trade as well as trade measured in value-added terms. A key developments section at the start of each chapter uses charts and maps to illustrate the most important trends. More detailed data are provided in a variety of tables covering specific aspects of world trade up to the end of 2014. A chapter on methodology explains how the data are compiled. International Trade Statistics 2015 serves as an invaluable reference tool for researchers, policymakers, and anyone interested in international trade.

A practical blockchain handbook designed to take you through implementing and re-engineering banking and financial solutions and workflows using eight step-by-step projects Key Features Implement various end-to-end blockchain projects and learn to enhance present-day financial solutions Use Ethereum, Hyperledger, and Stellar to build public and private decentralized applications Address complex challenges faced in the BFSI domain using different blockchain platform services Book Description Blockchain technology will continue to play an integral role in the banking and finance sector in the coming years. It will enable enterprises to build transparent and secure business processes. Experts estimate annual savings of up to 20 billion dollars from this technology. This book will help you build financial apps using blockchain, guiding you through enhancing popular products and services in the banking and finance sector. The book starts by explaining the essential concepts of blockchain, and the impact of blockchain technology on the BFSI sector. Next, you'll delve into re-designing existing banking processes and building new financial apps using blockchain. To accomplish this, you'll work through eight

blockchain projects. By demonstrating the entire process, the book helps you understand everything from setting up the environment and building frontend portals to system integration and testing apps. You will gain hands-on experience with the Ethereum, Hyperledger Fabric, and Stellar to develop private and public decentralized apps. Finally, you'll learn how to use ancillary platforms and frameworks such as IPFS, Truffle OpenZeppelin, and MetaMask. By the end of this blockchain book, you'll have an in-depth understanding of how to leverage distributed ledgers and smart contracts for financial use cases. What you will learn Design and implement blockchain solutions in a BFSI organization Explore common architectures and implementation models for enterprise blockchain Design blockchain wallets for multi-purpose applications using Ethereum Build secure and fast decentralized trading ecosystems with Blockchain Implement smart contracts to build secure process workflows in Ethereum and Hyperledger Fabric Use the Stellar platform to build KYC and AML-compliant remittance workflows Map complex business workflows and automate backend processes in a blockchain architecture Who this book is for This book is for blockchain and Dapps developers, or anyone looking for a guide to building innovative and highly secure solutions in the fintech domain using real-world use cases. Developers working in financial enterprises and banks, and solution architects looking to build brand new process flows using blockchain technology will also find the book useful. Experience with Solidity programming and prior knowledge of finance and trade are required to get the most out of this book.

Legal Tech, Smart Contracts and BlockchainSpringer

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.

An expert guide to implementing fast, secure, and scalable decentralized applications that work with thousands of users in real time Key Features Implement advanced features of the Ethereum network to build powerful decentralized applications Build smart contracts on different domains using the programming techniques of Solidity and Vyper Explore the architecture of Ethereum network to understand advanced use cases of blockchain development Book Description Ethereum is one of the commonly used platforms for building blockchain applications. It's a decentralized platform for applications that can run exactly as programmed without being affected by fraud, censorship, or third-party interference. This book will give you a deep understanding of how blockchain works so that you can discover the entire ecosystem, core components, and its implementations. You will get started by understanding how to configure and work with various Ethereum protocols for developing dApps. Next, you will learn to code and create powerful smart contracts that scale with Solidity and Vyper. You will then explore the building blocks of the dApps architecture, and gain insights on how to create your own dApp through a variety of real-world examples. The book will even guide you on how to deploy your dApps on multiple Ethereum instances with the required best practices and techniques. The next few chapters will delve into advanced topics such as, building advanced smart contracts and multi-page frontends using Ethereum blockchain. You will also focus on implementing machine learning techniques to build decentralized autonomous applications, in addition to covering several use cases across a variety of domains such as, social media and e-commerce. By the end of this book, you will have the expertise you need to build decentralized autonomous applications confidently. What you will learn Apply scalability solutions on dApps with Plasma and state channels Understand the important metrics of blockchain for analyzing and determining its state Develop a decentralized web application using React.js and Node.js Create oracles with Node.js to provide external data to smart contracts Get to grips with using Etherscan and block explorers for various transactions Explore web3.js, Solidity, and Vyper for dApps communication Deploy apps with multiple Ethereum instances including TestRPC, private chain, test chain, and mainnet Who this book is for This book is for anyone who wants to build fast, highly secure, and transactional decentralized applications. If you are an Ethereum developer looking to perfect your existing skills in building powerful blockchain applications, then this book is for you. Basic knowledge of Ethereum and blockchain is necessary to understand the concepts covered in this book.