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Recent Advances in Blockchain Technology

Real-World Applications

Blockchain Link Springer

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Handbook on the Politics and Governance of Big Data and Artificial Intelligence Andrej Zwitter, Oskar J. Gstrein, 2023-06-01 Drawing on the theoretical debates practical applications and sectoral approaches in the field this groundbreaking Handbook unpacks the political and regulatory developments in AI and big data governance Covering the political implications of big data and AI on international relations as well as emerging initiatives for legal regulation it provides an accessible overview of ongoing data science discourses in politics law and governance This title contains one or more Open Access chapters

From Digital Disruption to Dominance Maha Shehadeh, Khaled Hussainey, 2025-03-25 From Digital Disruption to Dominance Leveraging FinTech Applications for Sustainable Growth is a timely exploration into FinTech applications and their transformative power in the business realm offering clear understanding of how these tools not only disrupt but also offer pathways to dominance in various market segments

Big Data in Education KHRITISH SWARGIARY, 2024-08-01 Big Data in Education explores the revolutionary impact of big data on the educational landscape In this comprehensive guide educators administrators policymakers and researchers will discover how data driven insights can enhance learning experiences improve student outcomes and streamline educational practices The book begins by defining big data and its characteristics such as volume velocity variety veracity and value It delves into the various sources of educational data including student information systems learning management systems LMS social media and IoT devices as well as the methods for collecting this data

Data-Centric AI Solutions and Emerging Technologies in the Healthcare Ecosystem Alex Khang, Geeta Rana, R. K. Tailor, Vugar Abdullayev, 2023-10-12 The book offers insight into the healthcare system by exploring emerging technologies and AI based applications and implementation strategies It includes current developments for future directions as well as covering the concept of the healthcare system along with its ecosystem Data Centric AI Solutions and Emerging Technologies in the Healthcare Ecosystem focuses on the mechanisms of proposing and incorporating solutions along with architectural concepts design principles smart solutions decision making process and intelligent predictions It offers state of the art approaches for overall innovations developments and implementation of the smart healthcare ecosystem and highlights medical signal and image processing algorithms healthcare based computer vision systems and discusses explainable AI XAI techniques for healthcare This book will be useful to researchers involved in AI IoT Data and emerging technologies in the medical industry It is also suitable as supporting material for undergraduate and graduate level courses in related engineering disciplines

AI-Powered Cybersecurity for Banking and Finance Alex Khang, 2025-12-11 In the digital finance world cybersecurity and cloud tools can be used to prevent attacks and secure sensitive information such as the data of business transactions internal payments interbank payments bank accounts loan and deposit accounts stocks and other financial transactions The book explores the importance of artificial intelligence AI based predictive cybersecurity tools in the financial industry and their role in protecting financial data As AI continues to

revolutionize the landscape of global transactions it also brings forth new challenges including sophisticated theft activities Therefore this book addresses the problem of enhancing security and prevention of attacks through the application of AI powered cybersecurity tools This book contributes to a deeper understanding of the importance of virus detection tools unauthorized access detection tools cloud services and real time predictive analytics in the finance industry as well as their pivotal role in cybersecurity for preventing data theft The book provides valuable insights for cybersecurity and cloud services in the financial services industry aiding administrators engineers and managers in fortifying the security and resilience of financial data systems in the face of evolving challenges of financial data theft This book is not merely a compilation of technical knowledge through its engaging and thought provoking content the book leaves an indelible impression urging readers to embrace the transformative power of AI based technologies and embark on a collective mission to unlock the full potential of cybersecurity as well as cloud services for the improved safety of the global financial ecosystem

Machbarkeitsstudie zur Verwendung von Smart Contracts zur Realisierung komplexer Versicherungsprodukte

Robert Mickel, 2018-09-24 Masterarbeit aus dem Jahr 2018 im Fachbereich Informatik Allgemeines Note 1 0 Nordakademie Hochschule der Wirtschaft in Elmshorn Sprache Deutsch Abstract Smart Contracts bieten als Teil der Blockchain Technologie die Möglichkeit Verträge automatisch zu erfüllen und durchzusetzen Dies ist für Versicherungsanwendungen relevant da sich hieraus möglicherweise Kostensenkungspotentiale und Geschwindigkeitsgewinne in der Vertragsbearbeitung ergeben Die vorliegende Arbeit beschäftigt sich mit der Fragestellung welche Anforderungen Blockchain basierte Smart Contracts erfüllen müssen um für komplexe Sachversicherungen geeignet zu sein und ob diese Anforderungen durch die derzeit bestehenden Blockchain Technologien erfüllt werden Der erste Teil der Forschungsfrage wird durch die Erstellung eines Anforderungskataloges auf Grundlage einer SWOT Analyse von Smart Contracts beantwortet Zur Beantwortung des zweiten Teils wird ein Versicherungsprodukt entwickelt das versucht die aus der SWOT Analyse abgeleiteten Anforderungen umzusetzen Das vorgestellte Produkt ist nicht vollkommen dezentral aufgebaut Dies ist darin begründet dass ein komplett dezentrales Konzept mit rechtlichen Unsicherheiten verbunden wäre die aus der automatischen Durchsetzung der Verträge resultieren Außerdem kann eine dezentrale Regulierung komplexer Schäden mit der aktuellen Blockchain Technologie noch nicht umgesetzt werden Die formalrechtlichen Anforderungen an ein Versicherungsprodukt werden jedoch durch das entwickelte Konzept erfüllt Diese Arbeit kommt deshalb zu dem Ergebnis dass Smart Contracts gegenwärtig die Voraussetzungen für die Nutzung für komplexe Sachversicherungen nur teilweise erfüllen Ein Produkt das die bestehenden Einschränkungen berücksichtigt kann für Versicherungsunternehmen aber dennoch einen Mehrwert bieten Die Bedeutung von Zahlungsverkehrsdienstleistern in Europa und Übersee. Insbesondere Wise (rechtlich: Transferwise plc), London, und Western Union Holdings Inc., USA Halil Tunc, 2022-04-11 Studienarbeit aus dem Jahr 2021 im Fachbereich BWL Bank Borse Versicherung Note 1 0 Sprache Deutsch Abstract Ziel der vorliegenden Arbeit ist es zu beleuchten weshalb

Zahlungsverkehrsdienstleister eine so bedeutende Rolle spielen und die Dienstleistungen der Banken von Migranten weniger häufig genutzt werden. Nach der Einleitung werden in Kapitel 2 aufgrund der genannten Problematik zunächst Rücküberweisungen thematisiert. Es wird aufgezeigt, aus welchen Zielländern das meiste Kapital abfließt und welche Herkunftsländer wiederum die größten Volumina erhalten. Anschließend wird in Kapitel 3 das Geschäftsmodell der Zahlungsdienstleister vorgestellt. Seine Vorteile gegenüber einer bloßen Überweisung, die bei einer konventionellen Bank stattfindet, werden identifiziert. In diesem Rahmen wird auch untersucht, welche Gebühren bei grenzüberschreitenden Überweisungen anfallen. Ebenso wird in diesem Kapitel darauf eingegangen, wie sich die Transaktionsvolumina und die Umsätze ausgewählter Anbieter verteilen. Darauf folgend werden in Kapitel 4 die Auswirkungen der COVID-19-Pandemie auf Rücküberweisungen untersucht. Abgeschlossen wird die Arbeit in Kapitel 5 mit einer Zusammenfassung der zentralen Ergebnisse und einem Ausblick auf zukünftige Entwicklungsmöglichkeiten von Rücküberweisungen. Die mit ihrer gelb-schwarzen Farbe auffallenden Vertriebsstellen von Western Union, die an fast allen Bahnhöfen und Flughäfen weltweit zu finden sind, sind heute allgemein bekannt. Dies ist jedoch nur eines der Unternehmen von vielen im internationalen Zahlungsverkehr, deren Dienstleistung es Migranten ermöglicht, Kapital in ihr Heimatland zu schicken. Während der Markt hierfür in der Vergangenheit insbesondere durch Western Union und MoneyGram dominiert wurde, drängen heute zunehmend auch Fintechs auf ihn, um einen Anteil für sich zu gewinnen. Das Unternehmen Wise, das bis zur Umbenennung unter dem Namen Transferwise firmierte, sticht unter diesen hervor. Wise ist im Vergleich zu Western Union relativ neu auf dem Markt und zählt mit einem Marktwert von fünf Milliarden US-Dollar dennoch bereits zu den wertvollsten Fintechs in Europa. Während Überweisungen innerhalb der Eurozone über die SEPA kostengünstig und in kurzer Zeit stattfinden, ist die Lage bei Auslandsüberweisungen, die meist in Entwicklungsländern außerhalb der Eurozone fließen, anders. Dienste konventioneller Banken werden hierfür nicht präferiert, und Migranten greifen auf das Angebot von Zahlungsverkehrsdienstleistern zurück, das mit erheblichen Kosten verbunden ist.

Unterbindung von Produktpiraterie mit Hilfe der Blockchain Technologie Dennis Hodapp, 2025-08-11 Studienarbeit aus dem Jahr 2021 im Fachbereich Informatik / Industrie 4.0 / Note 1,2 FOM Hochschule für Oekonomie Management gemeinnützige GmbH München für die Fachhochschule Wirtschaftsinformatik Veranstaltung IT Management Sprache Deutsch Abstract In der vorliegenden Arbeit wird die Blockchain-Technologie in Bezug auf das Unterbinden von Produktfälschungen in der Automobilindustrie diskutiert, sowie die damit verbundenen Einsatzmöglichkeiten erläutert. Weiterhin wird konkretisiert, wie die Prävention von Produktpiraterie in das Prinzip der Blockchain integriert werden könnte. Der Schaden von Produktpiraterie durch plagierte Autokomponenten und Ersatzteile breitet sich stetig weiter aus. 2020 gaben 64 Prozent der Unternehmen an, von Komponentenplagiaten betroffen zu sein, und 40 Prozent von Ersatzteilmischungen. Diese Entwicklung kumulierte sich in diesem Jahr auf einen Unternehmensschaden von annähernd acht Milliarden Euro. Plagiiert werden Komponenten wie Bremsbeläge, Windschutzscheiben, Achsen und Airbags. Steigt die Gefahr, welche von Plagiaten ausgeht, so stieg in 2020 auch

die Gefahr durch Produktfälschungen auf 55 Prozent für Mensch und Umwelt

Relevance of Crypto Assets for Wealth Management in the European Union André Müller, 2022-08-31 Master's Thesis from the year 2022 in the subject Business economics Banking Stock Exchanges Insurance Accounting grade 2.00 Frankfurt School of Finance Management language English abstract This study investigates the relevance of crypto asset investment services from the perspective of private investors banks asset managers and regulators in the European Union in comparison to the United States of America The primary research question is as follows How relevant is the implementation of crypto investment services for wealth managers and private Investors in European markets in relation to current financial regulations There are three subordinate research questions How relevant is the implementation of crypto asset investment services to the wealthy clients of banks in the European Union How relevant is the implementation of crypto asset investment services to banks and asset managers serving wealthy clients in the European Union How relevant is the implementation of crypto asset investment services from the perspective of financial authorities in the European Union 244 different sources were consulted in this quantitative descriptive and explanatory literature analysis including 34 official survey analyses with a cumulative total of 128 104 participants Furthermore a qualitative interview was conducted with an expert from a major German bank In this master's thesis a deductive approach was taken

Blockchains and the Token Economy Mary C. Lacity, Horst Treiblmaier, 2022-08-10 In this book leading practitioners and academics provide comprehensive coverage and novel insights into blockchains and the token economy Real world case studies from a wide range of industries provide practical examples of blockchain based tokens for real estate logistics insurance recruitment collectibles reservations metaverses and more The cases show how tokens provide an innovative way to create and transfer value without relying on traditional intermediaries Readers will better understand the business and social benefits of tokenization but also its challenges Chapter 3 and Chapter 8 are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com

Untangling the Complexities of Universality Law as Technology Advances Brutus Jentzen Hunder, 2023-08-23 Seminar paper from the year 2023 in the subject Law Media Multimedia Law Copyright grade A Near East University Graduate Institute course International Law language English abstract In today's interconnected world technology has become an integral part of our daily lives transcending borders and reshaping societies on a global scale As the rapid advancements in technology continue to transform various industries and sectors it is crucial to comprehend the complexities of the laws and regulations surrounding its universality This paper delves into the complications that arise as technology rapidly increases globally exploring the challenges of navigating legal boundaries harmonizing global standards protecting intellectual property rights ensuring privacy and data protection addressing cybersecurity concerns and providing insights into achieving universal laws that can effectively govern and accommodate the rapidly evolving technological landscape By understanding the legal implications of universality we can foster a balanced and inclusive environment that

promotes innovation accessibility and protection for all Convergence of Internet of Things and Blockchain Technologies H L Gururaj,V Ravi Kumar,Sam Goundar,Ahmed A Elngar,B H Swathi,2021-08-31 This book presents chapters from diverse range of authors on different aspects of how Blockchain and IoT are converging and the impacts of these developments The book provides an extensive cross sectional and multi disciplinary look into this trend and how it affects artificial intelligence cyber physical systems and robotics with a look at applications in aerospace agriculture automotive critical infrastructures healthcare manufacturing retail smart transport systems smart cities and smart healthcare Cases include the impact of Blockchain for IoT Security decentralized access control systems in IoT Blockchain architecture for scalable access management in IoT smart and sustainable IoT applications incorporating Blockchain and more The book presents contributions from international academics researchers and practitioners from diverse perspectives Presents how Blockchain and IoT are converging and the impacts of these developments on technology and its application Discusses IoT and Blockchain from cross sectional and multi disciplinary perspectives Includes contributions from researchers academics and professionals from around the world **Blockchain for 5G-Enabled IoT** Sudeep Tanwar,2021-04-09 This book addresses one of the most overlooked practical methodological and moral questions in the journey to secure and handle the massive amount of data being generated from smart devices interactions the integration of Blockchain with 5G enabled IoT After an overview this book discusses open issues and challenges which may hinder the growth of Blockchain technology Then this book presents a variety of perspectives on the most pressing questions in the field such as how IoT can connect billions of objects together how the access control mechanisms in 5G enabled industrial environment works how to address the real time and quality of service requirements for industrial applications and how to ensure scalability and computing efficiency Also it includes a detailed discussions on the complexity of adoption of Blockchain for 5G Enabled IoT and presents comparative case studies with respect to various performance evaluation metrics such as scalability data management standardization interoperability and regulations accessibility human factors engineering and interfaces reliability heterogeneity and QoS requirements This book acts as a professional guide for the practitioners in information security and related topics **Data Privacy Management, Cryptocurrencies and Blockchain Technology** Cristina Pérez-Solà,Guillermo Navarro-Arribas,Alex Biryukov,Joaquin Garcia-Alfaro,2019-09-20 This book constitutes the refereed conference proceedings of the 14th International Workshop on Data Privacy Management DPM 2019 and the Third International Workshop on Cryptocurrencies and Blockchain Technology CBT 2019 held in conjunction with the 24th European Symposium on Research in Computer Security ESORICS 2019 held in Luxembourg in September 2019 For the CBT Workshop 10 full and 8 short papers were accepted out of 39 submissions The selected papers are organized in the following topical headings lightning networks and level 2 smart contracts and applications and payment systems privacy and mining The DPM Workshop received 26 submissions from which 8 full and 2 short papers were selected for presentation The papers

focus on privacy preserving data analysis field lab studies and privacy by design and data anonymization Chapter 2 Integral Privacy Compliant Statistics Computation and Chapter 8 Graph Perturbation as Noise Graph Addition a New Perspective for Graph Anonymization of this book are available open access under a CC BY 4.0 license at link.springer.com

Blockchain, Law and Governance Benedetta Cappiello, Gherardo Carullo, 2020-10-21 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

Foundations of Blockchain Ahmed Imteaj, M. Hadi Amini, Panos M. Pardalos, 2021-07-16 This book provides a comprehensive analysis of fundamental topics related to blockchain Throughout the authors explore different vital issues and specific areas of blockchain For convenience the authors present the elementary description visualize the working procedure of blockchain paradigm and highlight the areas it can be applied in real life They explain the blockchain process from a diverse perspective i.e. distributed Internet of Things IoT interdependent networks intelligent mining etc They also analyze the interconnection of a blockchain network and such novel research areas to show a pathway towards a new research direction This book also holds the core challenges and open research issues of blockchain technology considering existing applications Chapters include consensus mechanisms of blockchain blockchain applicability in centralized and decentralized internet of things blockchain interoperability from the perspective of interdependent networks and blockchain for resource constrained devices Specifies the importance of theoretical methods in dealing with problems in the context of blockchain for interdependent decision making Provides a comprehensive investigation of blockchain algorithms and the recently developed methods based on this algorithm Provides basics and mathematical foundations needed to learn and deploy blockchain

Blockchain Technology in Internet of Things Liehuang Zhu, Keke Gai, Meng Li, 2019-07-26 This book focuses on picturing B IoT techniques from a few perspectives which are architecture key technologies security and privacy service models and framework practical use cases and more Main contents of this book derive from most updated technical achievements or breakthroughs in the field A number of representative IoT service offerings will be covered by this book such as vehicular networks document sharing system and telehealth Both theoretical and practical contents will be involved in this book in order to assist readers to have a comprehensive and deep understanding the mechanism of using blockchain for powering up IoT systems The blockchain enabled Internet of Things B IoT is deemed to be a novel technical alternative that provides network based services with

additional functionalities benefits and implementations in terms of decentralization immutability and auditability Towards the enhanced secure and privacy preserving Internet of Things IoT this book introduces a few significant aspects of B IoT which includes fundamental knowledge of both blockchain and IoT state of the art reviews of B IoT applications crucial components in the B IoT system and the model design and future development potentials and trends IoT technologies and services e g cloud data storage technologies and vehicular services play important roles in wireless technology developments On the other side blockchain technologies are being adopted in a variety of academic societies and professional realms due to its promising characteristics It is observable that the research and development on integrating these two technologies will provide critical thinking and solid references for contemporary and future network relevant solutions This book targets researchers and advanced level students in computer science who are focused on cryptography cloud computing and internet of things as well as electrical engineering students and researchers focused on vehicular networks and more Professionals working in these fields will also find this book to be a valuable resource

Blockchain Technology: Applications and Challenges Sandeep Kumar Panda,Ajay Kumar Jena,Santosh Kumar Swain,Suresh Chandra Satapathy,2021-04-30 This book discusses the various open issues of blockchain technology such as the efficiency of blockchain in different domains of digital cryptocurrency smart contracts smart education system smart cities cloud identity and access safeguard to cybersecurity and health care For the first time in human history people across the world can trust each other and transact over a large peer to peer networks without any central authority This proves that trust can be built not only by centralized institution but also by protocols and cryptographic mechanisms The potential and collaboration between organizations and individuals within peer networks make it possible to potentially move to a global collaborative network without centralization Blockchain is a complex social economic and technological phenomenon This questions what the established terminologies of the modern world like currency trust economics and exchange would mean To make any sense one needs to realize how much insightful and potential it is in the context and the way it is technically developed Due to rapid changes in accessing the documents through online transactions and transferring the currency online many previously used methods are proving insufficient and not secure to solve the problem which arises in the safe and hassle free transaction Nowadays the world changes rapidly and a transition flow is also seen in Business Process Management BPM The traditional Business Process Management holds good establishment last one to two decades but the internal workflow confined in a single organization They do not manage the workflow process and information across organizations If they do so again fall in the same trap as the control transfers to the third party that is centralized server and it leads to tampering the data and single point of failure To address these issues this book highlights a number of unique problems and effective solutions that reflects the state of the art in blockchain Technology This book explores new experiments and yields promising solutions to the current challenges of blockchain technology This book is intended for the researchers academicians faculties scientists blockchain specialists business

management and software industry professionals who will find it beneficial for their research work and set new ideas in the field of blockchain This book caters research work in many fields of blockchain engineering and it provides an in depth knowledge of the fields covered **Transformations Through Blockchain Technology** Sheikh Mohammad Idrees,Mariusz Nowostawski,2022-03-08 The book serves as a connecting medium between various domains and Blockchain technology discussing and embracing how Blockchain technology is transforming all the major sectors of the society The book facilitates sharing of information case studies theoretical and practical knowledge required for Blockchain transformations in various sectors The book covers different areas that provide the foundational knowledge and comprehensive information about the transformations by Blockchain technology in the fields of business healthcare finance education supply chain sustainability and governance The book pertains to students academics researchers professionals and policy makers working in the area of Blockchain technology and related fields

Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Blockchain Link Springer**

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