

Semantic Enhanced Blockchain Technology For Smart Cities

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Blockchain Technology for Dummies - Blockchain Explained Simply

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Semantic Enhanced Blockchain Technology For Smart Cities

- Semantic Scholar 4 Blockchain technology is also referred to as distributed ledger technology (DLT) or as a decentralized ledger, decentralized network However, to be precise, blockchain is the first fully functional manifestation of DLT A DLT is a distributed database and blockchain ... Semantic Enhanced Blockchain Technology For Smart ...

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semantic-enhanced pervasive computing by embedding intelligence in both objects and ambient through the dissemination of a large number of micro-devices, about blockchain technology and Semantic Web of Things are provided in this section 21 Blockchain ... Semantic Enhanced Blockchain Technology For Smart Cities PDF Semantic Enhanced Blockchain ...

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Abstract Blockchain and Distributed ledger Technologies are increasingly becoming key enablers for vital innovation in financial services, manufacturing, government and other industries. One of the...

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Published 2018. Computer Science. ArXiv. Blockchain (BC), the technology behind the Bitcoin crypto-currency system, is considered to be both alluring and critical for ensuring enhanced security and (in some implementations, non-traceable) privacy for diverse applications in many other domains including in the Internet of Things (IoT) eco-system. Intensive research is currently being conducted in both academia and industry applying the Blockchain technology in multifarious applications.

Applications of Blockchain Technology ... - Semantic Scholar

innovate and enhance the Blockchain technology that can turn the SCM industry into a much transparent and productive form. e current supply chain, which is al so known as a linear e conom y model...

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Blockchain is the answer to this because blockchain used cryptographic technology that ' s not easy for hacker to break. This research proposes a user trust model that includes multifactor authentication combining with public and private key generated by blockchain and an agentless device trust model that can scan for malware and detect the device location.

Enhanced Bring your Own Device (BYOD ... - Semantic Scholar

2019 5th International Conference on Advanced Computing & Communication Systems (ICACCS) Immutability is a core principle of blockchain platforms that help all participants to have an exact global log of transactions. Immutability is easier to achieve in permissioned blockchain platforms where a trusted group are the validators.

Redactable Blockchain using Enhanced ... - Semantic Scholar

The purported benefits of blockchain technology for enhancing management of the supply chain include: 1) reducing or eliminating fraud and errors, 2) reducing delays from paperwork, 3) improving inventory management, 4) identifying issues more rapidly, 5) minimizing courier costs, and 6) increasing 37consumer and partner trust.

Leveraging Blockchain Technology to ... - Semantic Scholar

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Enhanced Decentralized Management of Patient-Driven ...

The goal of Blockchain technology is to create a decentral- ized environment where no third party is in control of the transactions and data. Blockchain is a distributed database solution that maintains a continuously growing list of data records that are confirmed by the nodes participating in it.

Where Is Current Research on Blockchain Technology?—A ...

RECRUITBLOCK is London ' s #1 Blockchain, FinTech and Cryptocurrency recruitment agency with the proven ability of matching outstanding talent with industry-leading companies. Your company ' s ability to attract and retain the best talent will determine its growth and success, making hiring the right Blockchain, FinTech and Cryptocurrency talent critical.

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The purpose of this Master's thesis is to explore blockchain technology and smart contracts as a way of building privacy-sensitive applications. The main focus is on a medication plan containing prescriptions, built on a blockchain system of smart contracts.

*The book provides a sound theoretical foundation for the application of semantic methods, concepts, technologies for practical problem solving offering original research on advanced concepts, methods, algorithms, technologies, and applications of semantic computing in real-world situations**

This book offers an essential guide to IoT Security, Smart Cities, IoT Applications, etc. In addition, it presents a structured introduction to the subject of destination marketing and an exhaustive review on the challenges of information security in smart and intelligent applications, especially for IoT and big data contexts. Highlighting the latest research on security in smart cities, it addresses essential models, applications, and challenges. Written in plain and straightforward language, the book offers a self-contained resource for readers with no prior background in the field. Primarily intended for students in Information Security and IoT applications (including smart cities systems and data heterogeneity), it will also greatly benefit academic researchers, IT professionals, policymakers and legislators. It is well suited as a reference book for both undergraduate and graduate courses on information security approaches, the Internet of Things, and real-world intelligent applications.

Examining the changing nature of cities in the face of smart technology, this book studies key new challenges and capabilities defined by the Internet of Things, data science, blockchain and artificial intelligence. It argues that using algorithmic logic alone for automation and optimisation in modern smart cities is not sufficient, and analyses the importance of integrating this with strong participatory governance and digital platforms for community action.

Blockchain relies on distributed databases that give an alterable and semipublic record of digital transactions. Blockchain in learning should address theoretical, practical, and technical issues, but it must also consider the philosophy behind interactive blockchain in learning. While the applications of blockchain have been the subject of serious academic research, there must be more continuous and multicultural attention paid to the impact of the latest management, communication, pedagogy, technology, and evaluation-based developments of blockchain in learning. Blockchain Technology Applications in Education is an essential scholarly publication that scrutinizes how open universities establish a blockchain network for decentralized learning. This book will explore a variety of new management models, communicational actions, pedagogical approaches, new technologies, and evaluation models. There will be new trends, patterns, and customs of blockchain in learning drawn from the distinctive improvements in learning milieuus. Highlighting a range of topics such as corporate education, lifelong learning, and social media, this book is essential for academicians, curriculum designers, instructional designers, IT consultants, administrators, researchers, and students.

This book includes the proceedings of the 15th International Conference on Complex, Intelligent, and Software Intensive Systems, which took place in Asan, Korea, on July 1-3, 2021. Software intensive systems are systems, which heavily interact with other systems, sensors, actuators, devices, and other software systems and users. More and more domains are involved with software intensive systems, e.g., automotive, telecommunication systems, embedded systems in general, industrial automation systems, and business applications. Moreover, the outcome of web services delivers a new platform for enabling software intensive systems. Complex systems research is focused on the overall understanding of systems rather than its components. Complex systems are very much characterized by the changing environments in which they act by their multiple internal and external interactions. They evolve and adapt through internal and external dynamic interactions. The development of intelligent systems and agents, which is each time more characterized by the use of ontologies and their logical foundations build a fruitful impulse for both software intensive systems and complex systems. Recent research in the field of intelligent systems, robotics, neuroscience, artificial intelligence, and cognitive sciences is very important factor for the future development and innovation of software intensive and complex systems. The aim of the book is to deliver a platform of scientific interaction between the three interwoven challenging areas of research and development of future ICT-enabled applications: Software intensive systems, complex systems, and intelligent systems.

This book includes proceedings of the 15th International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS-2021), which took place in Asan, Korea, on July 1-3, 2021. With the proliferation of wireless technologies and electronic devices, there is a fast-growing interest in Ubiquitous and Pervasive Computing (UPC). The UPC enables to create a human-oriented computing environment where computer chips are embedded in everyday objects and interact with physical world. Through UPC, people can get online even while moving around, thus, having almost permanent access to their preferred services. With a great potential to revolutionize our lives, UPC also poses new research challenges. The aim of the book is to provide the latest research findings, methods, development techniques, challenges, and solutions from both theoretical and practical perspectives related to UPC with an emphasis on innovative, mobile, and Internet services.

This book explores recent advances in blockchain technology and its impact on Industry 4.0 via advanced technologies. It provides an in-depth analysis of the step by step evolution of Industry 4.0 and blockchain technologies for creating the next-generation, secure, decentralized, distributed and trusted industry environment and enhancing the productivity of industries. The book describes how blockchain technology makes the industrial internet (Industry 4.0) a transparent, reliable and secure environment for people, processes, systems, and services, presenting a strong, technological and conceptual framework and roadmap for decision-makers involved in the transformation of any area of industry.

The book aims to showcase the basics of both IoT and Blockchain for beginners as well as their integration and challenge discussions for existing practitioner. It aims to develop understanding of the role of blockchain in fostering security. The objective of this book is to initiate conversations among technologists, engineers, scientists, and clinicians to synergize their efforts in producing low-cost, high-performance, highly efficient, deployable IoT systems. It presents a stepwise discussion, exhaustive literature survey, rigorous experimental analysis and discussions to demonstrate the usage of blockchain technology for securing communications. The book evaluates, investigate, analyze and outline a set of security challenges that needs to be addressed in the near future. The book is designed to be the first reference choice at research and development centers, academic institutions, university libraries and any institutions interested in exploring blockchain. UG/PG students, PhD Scholars of this fields, industry technologists, young entrepreneurs and researchers working in the field of blockchain technology are the primary audience of this book.

About the necessity and usefulness of developing a philosophy specific to the blockchain technology, emphasizing on the ontological aspects. After an Introduction that highlights the main philosophical directions for this emerging technology, in Blockchain Technology I explain the way the blockchain works, discussing ontological development directions of this technology in Designing and Modeling. The next section is dedicated to the main application of blockchain technology, Bitcoin, with the social implications of this cryptocurrency. There follows a section of Philosophy in which I identify the blockchain technology with the concept of heterotopia developed by Michel Foucault and I interpret it in the light of the notational technology developed by Nelson Goodman as a notational system. In the Ontology section, I present two developmental paths that I consider important: Narrative Ontology, based on the idea of order and structure of history transmitted through Paul Ricoeur's narrative history

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