

IoT Components

Semantics

Services

Computation

Communication

Sensing

Identification



Semantic Enhanced Blockchain Technology For Smart Cities

Anna Visvizi, Orlando Troisi, Vincenzo Corvello



Semantic Enhanced Blockchain Technology For Smart Cities:

Advances in Intelligent Data Analysis and Applications Jeng-Shyang Pan,Valentina Emilia Balas,Chien-Ming Chen,2021-11-25 This book constitutes the Proceeding of the Sixth International Conference on Intelligent Data Analysis and Applications October 15 18 2019 Arad Romania This edition is technically co sponsored by Aurel Vlaicu University of Arad Romania Southwest Jiaotong University Fujian University of Technology Chang an University Shandong University of Science and Technology Fujian Provincial Key Lab of Big Data Mining and Applications and National Demonstration Center for Experimental Electronic Information and Electrical Technology Education Fujian University of Technology China Romanian Academy and General Association of Engineers in Romania Arad Section The book covers a range of topics Machine Learning Intelligent Control Pattern Recognition Computational Intelligence Signal Analysis Modeling and Visualization Multimedia Sensing and Sensory Systems Signal control Imaging and Processing Information System Security Cryptography and Cryptanalysis Databases and Data Mining Information Hiding Cloud Computing Information Retrieval and Integration Robotics Control Agents Command Control Communication and Computers C4 Swarming Technology Sensor Technology Smart cities The book offers a timely board snapshot of new development including trends and challenges that are yielding recent research directions in different areas of intelligent data analysis and applications The book provides useful information to professors researchers and graduated students in area of intelligent data analysis and applications

Smart Cities in the Post-algorithmic Era Nicos Komninos,Christina Kakderi,2019-12-27 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

Digital Twin and Blockchain for Sensor Networks in Smart Cities Tuan Anh Nguyen,2025-02-25 Digital twin blockchain and wireless sensor networks can work together to improve services in the smart city Big data derived from wireless sensor networks can be integrated to accommodate the exchange of real time data between citizens governments and organizations Blockchain can provide high security for large scale communications and transactions between many stakeholders Digital twin uses physical models and historical data to integrate big information under multidiscipline multiphysical quantities multiscale and multiprobability conditions Digital Twin and Blockchain for Sensor Networks in Smart Cities explores how digital twin and blockchain can be optimized to improve services This book is divided into three parts Part 1 focuses on the fundamental concepts of blockchain and digital twin for sensor networks in the smart cities while Part 2 describes their applications for managing the regular operations and services Part 3 deals with their applications for safe cities Describes the fundamentals of blockchain and digital twin Explores how blockchain and digital twin work with smart sensor networks Explains how intelligent sensor networks can be used in the smart and safe cities

Discusses how blockchain and digital twin can be used to manage services in smart cities

Security in Smart Cities: Models, Applications, and Challenges Aboul Ella Hassanien, Mohamed Elhoseny, Syed Hassan Ahmed, Amit Kumar Singh, 2018-11-04 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

Deep Learning and Blockchain Technology for Smart and Sustainable Cities Subramaniaswamy V, G Revathy, Logesh Ravi, N. Thillaiarasu, Naresh Kshetri, 2025-05-22 In this digital era a smart city can become an intelligent society by using advances in emerging technologies Specifically the rapid adoption of deep learning DL in fusion with blockchain technology has led to a new digital smart city ecosystem A broad spectrum of DL and blockchain applications promises solutions for problems in areas ranging from risk management and financial services to cryptocurrency to public and social services Furthermore the convergence of artificial intelligence and blockchain technology is revolutionizing the smart city network architecture to build sustainable ecosystems However these advances in technology bring both opportunities and challenges in creating sustainable smart cities To help planners and developers to meet these challenges and exploit these opportunities Deep Learning and Blockchain Technology for Smart and Sustainable Cities takes a deep dive into the technologies and applications that enable smart and sustainable cities It provides a comprehensive literature review of the security issues and problems that impact the deployment of blockchain systems in smart cities It presents a detailed discussion of key factors in the convergence of blockchain and DL technologies that help form sustainable smart societies This book also discusses blockchain security enhancement solutions and summarizes main key points necessary for developing various blockchain and DL based intelligent transportation systems This book concludes with a discussion of open issues and future research direction These include new security suggestions and guidelines for a sustainable smart city ecosystem Also discussed is 6G enabled DL and blockchain in real time applications

Advanced Concepts, Methods, and Applications in Semantic Computing Daramola, Olawande, Moser, Thomas, 2020-12-18 Semantic computing is critical for the development of semantic systems and applications that must utilize semantic analysis semantic description semantic interfaces and semantic integration of data and services to deliver their objectives Semantic computing has enormous capabilities to enhance the efficiency and throughput of systems that are based on key emerging concepts and technologies

such as semantic web internet of things blockchain technology and knowledge graphs Thus research that expounds advanced concepts methods technologies and applications of semantic computing for solving challenges in real world domains is vital Advanced Concepts Methods and Applications in Semantic Computing is a scholarly reference book that provides a sound theoretical foundation for the application of semantic methods concepts and technologies for practical problem solving It is designed as a comprehensive and reliable resource on how semantic oriented approaches can be used to aid new emergent technologies and tackle real world problems Covering topics that include deep learning machine learning blockchain technology and semantic web services this book is ideal for professionals academicians researchers and students working in the field of semantic computing in various disciplines including but not limited to software engineering systems engineering knowledge engineering electronic commerce computer science and information technology **Fostering Machine**

Learning and IoT for Blockchain Technology Khaleel Ahmad,Uma N. Dulhare,Mohammad Sufian Badar,Jameel Ahamed,M. A. Rizvi,2025-09-01 This book covers Blockchain Technology and its emerging field by developing socio economic systems viz efficiently establishing transparency and trust increasing utilization of various resources and reducing cost This book is organized into 2 volumes that provide an overview of Blockchain technology foundations of Blockchain Machine Learning and Distributed Systems Cryptography Consensus algorithm Bitcoin concepts and its properties Smart Contracts developing knowledge of tools like Hyperledger Multichain Ethereum etc Machine learning algorithms applications of a smart city using machine learning and blockchain technology While this book will dwell on the foundations of Blockchain Technology as a part of transparency scalability integrity security and how the machine learning algorithms integrate with blockchain technology based smart city applications it will also focus on contemporary topics for Research and Development in various sectors With an in depth knowledge of the technology underlying various platforms such as Bitcoin Ethereum and Hyperledger As a beginner the reader will be learning the importance of consensus in transactions how transactions are stored on Blockchain how to use it in the financial domain such as virtual currency cross border payment and settlement bills and supply chain finance securities insurance and transactions viz Bitcoin The reader will be able to develop custom smart contracts using solidity and Remix IDE using the Ethereum platform and deploy them on the test Blockchain network using Truffle The reader will learn how to build a machine learning model and analyze the data which is generated by the practical use cases of Blockchain in various smart cities sectors like Smart Health Smart food and agriculture smart transport smart water management smart waste management smart energy management etc **Blockchain-Based Solutions for**

Accessibility in Smart Cities Abhishek, Kumar,Chakraborty, Chinmay,2024-08-29 In the evolving landscape of smart cities the integration of technology and real time data management presents a dual edged challenge and opportunity for urban accessibility The web of devices from smartphones and connected cars to homes and citizens forms the backbone of a smart city s infrastructure As cities strive to become technologically enhanced hubs the need for seamless accessibility becomes

paramount However this ambitious transformation encounters hurdles such as traffic congestion inefficient energy distribution and concerns about air quality Enter Blockchain Based Solutions for Accessibility in Smart Cities a groundbreaking exploration that addresses the issues hindering the optimal realization of smart city accessibility This book delves into the emergence of blockchain technologies within smart city infrastructures and offers a compelling narrative on how blockchain based solutions can be the catalyst for overcoming these challenges This innovative book is crafted with a specific audience in mind researchers faculty and students committed to shaping a secure ecosystem for smart city infrastructure By merging concepts of security smart city infrastructure and blockchain this multidisciplinary approach ensures that readers gain a nuanced understanding of the challenges at hand Whether immersed in academia or eager to contribute to the evolution of smart cities Blockchain Based Solutions for Accessibility in Smart Cities is a valuable resource that empowers readers to navigate the complexities and unlock the full potential of blockchain in urban accessibility

Semantic Web Technologies and Applications in Artificial Intelligence of Things Ortiz-Rodriguez, Fernando, Leyva-Mederos, Amed, Tiwari, Sanju, Hernandez-Quintana, Ania R., Martinez-Rodriguez, Jose L., 2024-05-16 The confluence of Artificial Intelligence of Things AIoT and Semantic Web technologies is nothing short of revolutionary The profound impact of this synergy extends far beyond the realms of industry research and society it shapes the very fabric of our future Semantic Web Technologies and Applications in Artificial Intelligence of Things is a meticulously crafted reference that not only acknowledges this significance but also serves as a guide for those navigating the complexities of Industry 4.0 and AIoT This curated compendium of cutting edge technologies acts as a veritable knowledge base for future developments As academics scholars and industry professionals the ideal audience of this book will find meticulously curated content that caters to their diverse interests and expertise covering topics ranging from smart agriculture manufacturing industry health sciences and government Seasoned academics students and visionary industry leaders will find this book to be an indispensable guide that paves the way for innovation and progress Proceedings of 4th International Conference on Mathematical Modeling and Computational Science Souvik Pal, Álvaro Rocha, 2025-06-21 This book aims to capture the interest of researchers and professionals in information technology computer science and mathematics It covers fundamental and advanced concepts related to intelligent computing paradigms data sciences graph theory and mathematical modeling In high performance computing the need for intelligent adaptive computing mechanisms and the integration of mathematical modeling in computational algorithms is becoming increasingly significant Serving as a valuable resource for industry professionals this book also supports beginners in gaining insights into enhanced computing paradigms and mathematical concepts from foundational to advanced levels Our objective is to provide a platform for researchers engineers academicians and industry experts worldwide to share their findings on emerging trends The authors believe this book not only presents innovative ideas but also fosters engaging discussions and inspires new perspectives Building Tomorrow's Smart Cities

With 6G Infrastructure Technology Singh, Sushil Kumar, Virdee, Bal, Jadeja, Rajendrasinh, Tanwar, Sudeep, Khanna, Ashish, 2024-12-18 Emerging technologies such as blockchain artificial intelligence AI digital twins and advanced internet of things IoT sensors are transforming cities into intelligent interconnected ecosystems through applications such as smart parking smart healthcare and smart education These systems rely on IoT devices and gateways to collect process and analyze data for optimizing smart city functions with advancements shifting from 5G to 6G technology While these innovations promise to revolutionize urban environments ensuring security and privacy in 6G infrastructure remains a critical challenge for realizing the full potential of smart cities Building Tomorrow's Smart Cities With 6G Infrastructure Technology explores the profound impact of emerging technology enabled secure 6G infrastructure on the creation of futuristic smart cities It provides relevant theoretical frameworks and the latest empirical research findings Covering topics such as AI heritage cities and web3 this book is an excellent resource for industry professionals researchers policymakers academicians students and more

Digital Twins for Smart Metabolic Circular Cities Simon Elias Bibri, Tan Yigitcanlar, Jeffrey Huang, 2025-05-29 Digital Twins for Smart Metabolic Circular Cities Innovations in Planning and Climate Resilience explores the advanced convergence of smart city technologies digital twin applications smart urban metabolism and circular economy principles This comprehensive resource offers insights into sustainable urban practices and innovative approaches to address the multifaceted challenges posed by rapid urbanization environmental degradation and climate change In a rapidly changing world this book provides a detailed understanding of how digital twin technologies and smart urban metabolism frameworks can be applied to foster sustainable urban development This holistic perspective bridges urban planning environmental sustainability and the transformative potential of digital twins The book equips readers with practical insights and solutions to navigate contemporary urban development complexities It is an invaluable resource for urban planners environmental scientists policymakers and technology experts interested in sustainable practices Through real world applications foundational theory and forward thinking strategies it empowers readers with the knowledge to address pressing environmental and infrastructural challenges associated with the future of smart cities Utilizes practical insights and case studies to demonstrate the application of digital twins geospatial mapping tools and smart urban metabolism frameworks in real world scenarios Offers a comprehensive understanding of the potential benefits and challenges associated with the integration of digital twin and circular metabolism platforms aiding informed decision making for sustainable policies Focuses on circular economy principles providing actionable strategies for minimizing waste optimizing resource usage and fostering sustainable practices

Harnessing AI, Blockchain, and Cloud Computing for Enhanced e-Government Services Lytras, Miltiadis Demetrios, Alkhaldi, Afnan N., Ordóñez de Pablos, Patricia, 2024-12-26 The integration of artificial intelligence AI blockchain and cloud computing revolutionizes the way governments deliver services to citizens creating new opportunities for efficient transparent and secure e government solutions AI can streamline decision making and automate

processes for personalized services citizen need prediction and optimized resource allocation Blockchain technology offers enhanced security and accountability while cloud computing provides the scalability and flexibility needed to store and process vast amounts of data By harnessing the power of these technologies governments can improve service delivery reduce operational costs and foster greater citizen engagement driving the digital transformation of public sector functions and contributing to responsive inclusive and efficient governance Further exploration of these technologies integration in government may provide insights into their role in enhancing public service delivery citizen engagement and administrative efficiency Harnessing AI Blockchain and Cloud Computing for Enhanced e Government Services delves into the transformative potential of modern technologies in reshaping government services It explores how AI blockchain and cloud computing are driving the evolution of e government enabling more efficient transparent and value added services across various public sectors efficiency This book covers topics such as political science cybersecurity and public sectors and is a useful resource for data scientists computer engineers government officials policymakers business owners researchers and academicians

Convergence of IoT, Blockchain, and Computational Intelligence in Smart Cities Rajendra Kumar,Vishal Jain,Leong Wai Yie,Sunantha Teyarachakul,2023-12-12 This edited book presents an insight for modelling procuring and building the smart city plan using the Internet of Things IoT and a security framework using blockchain technology The applications of Li Fi and 5G in smart cities are included along with their implementation challenges and advantages This book focuses on the use of IoT and blockchain in the day to day transparent and recorded activities of citizens of smart cities like smart citizen management The future for upgrading the system as per technological advancements is also discussed This book integrates IoT blockchain Li Fi and 5G in smart city implementation covers smart supply chain management using IoT outlines the state of the art and sustainable implementation of smart cities and practical challenges includes sustainable development of smart cities presents detailed explanation of case studies of smart cities of developed countries and developing countries and their comparisons This book is aimed at researchers and graduate students in Artificial Intelligence Urban Planning and Information Technology Systems and Management Research and Innovation Forum 2023 Anna Visvizi,Orlando Troisi,Vincenzo Corvello,2024-01-01 This book features research presented and discussed during the Research Innovation Forum Rii Forum 2023 As such this book offers a unique insight into emerging topics issues and developments pertinent to the fields of technology innovation and education and their social impact Papers included in this book apply inter and multi disciplinary approaches to query such issues as technology enhanced teaching and learning smart cities information systems cognitive computing and social networking What brings these threads of the discussion together is the question of how advances in computer science which are otherwise largely incomprehensible to researchers from other fields can be effectively translated and capitalized on so as to make them beneficial for society as a whole In this context Rii Forum and Rii Forum proceedings offer an essential venue where diverse stakeholders including

academics the think tank sector and decision makers can engage in a meaningful dialogue with a view to improving the applicability of advances in computer science

Intelligent Green Technologies for Sustainable Smart Cities Suman Lata Tripathi, Souvik Ganguli, Abhishek Kumar, Tengiz Magradze, 2022-08-24

Intelligent Green Technologies for Sustainable Smart Cities Presenting the concepts and fundamentals of smart cities and developing green technologies this volume written and edited by a global team of experts also goes into the practical applications that can be utilized across multiple disciplines and industries for both the engineer and the student Smart cities and green technologies are quickly becoming two of the most important areas of development facing today's engineers scientists students and other professionals Written by a team of experts in these fields this outstanding new volume tackles the problem of detailing advances in smart city development green technologies and where the two areas intersect to create innovation and revolutionary solutions This group of hand selected and vetted papers deals with the fundamental concepts of adapting artificial intelligence machine learning techniques with green technologies and many other advances in concepts related to these key areas Including the most recent research and developments available this book is an extraordinary source of knowledge for students engineers seeking the latest research and facilities and other professionals working in the area of green technologies and challenges and solutions in urban planning and smart city development

Blockchain and Digital Twin for Smart Hospitals Tuan Anh Nguyen, 2025-02-01

Blockchain and Digital Twins for Smart Healthcare describes the role of blockchain and digital twins in smart healthcare covering the ecosystem of the Internet of Medical Things how data can be gathered using a sensor network which is securely stored updated and managed with blockchain for efficient and private medical data exchange Medical data is collected real time from devices and systems in smart hospitals the internet of medical things This data is integrated to provide insight from the analytics or machine learning software using digital twins Security and transparency are brought through a combination of digital twin and blockchain technologies Provides the fundamentals of blockchain digital twins and IoMT Presents a useful guide for readers on the new applications of blockchain the medical digital twin and IoMT Explores how blockchain and digital twins can be used in the IoMT smart hospitals and for future healthcare services

Integration of Federated Learning and Blockchain for Smart Cities Krishna Kant Singh, Akansha Singh, Mahesh T. R., 2025-09-30

Stay ahead of the curve in urban innovation with this essential guide that provides a comprehensive roadmap for federated learning and blockchain to build secure intelligent and efficient smart city ecosystems As cities grow smarter the demand for secure decentralized and privacy preserving technologies is greater than ever This book explores how federated learning and blockchain are transforming urban landscapes by enabling intelligent secure and efficient systems By combining the power of decentralized machine learning with the transparency and security of blockchain this book provides a roadmap for tackling challenges in urban mobility energy management public safety and healthcare delving into theoretical frameworks architectural designs security considerations and real world case studies to illustrate the impact of these technologies This

book serves as a comprehensive guide for researchers industry professionals and policymakers seeking to understand implement and innovate within smart city ecosystems Readers will find the volume Explores the synergy between federated learning and blockchain offering cutting edge solutions for smart city challenges Addresses critical issues of data privacy decentralized AI and secure digital infrastructure in urban environments Features practical case studies on smart transportation energy management healthcare and governance Provides a forward looking perspective on how emerging technologies will shape the cities of tomorrow Audience Academics researchers industry professionals and policymakers working in the fields of artificial intelligence machine learning blockchain IoT cybersecurity smart city planning and urban technology development **Blockchain Technology for IoE** Arun Solanki,Anuj Kumar Singh,Sudeep Tanwar,2023-09-29

This book explores opportunities and challenges in the field of Internet of Everything IoE security and privacy under the umbrella of distributed ledger technologies and blockchain technology including distributed consensus mechanisms crypto sensors encryption algorithms and fault tolerance mechanisms for devices and systems It focusses on the applicability of blockchain technology including architectures and platforms for blockchain and IoE authentication and encryption algorithms for IoE malicious transactions detection blockchain for forensics and so forth Outlines the major benefits as well as challenges associated with integration of blockchain with IoE Describes detailed framework to provide security in IoE using blockchain technology Reviews various issues while using distributed ledger technologies for IoE Provides comprehensive coverage of blockchain for IoE in securing information including encryption schemes authentication security issues and challenges Includes case studies in realistic situations like healthcare informatics smart industry and smart transportation This book is aimed at researchers and graduate students in computing cryptography IoT computer engineering and networks Recent Trends in Intelligent Computing and Communication Pushpa Choudhary,Sambit Satpathy,Arvind Dagur,Dhirendra Kumar Shukla,2025-09-30 This book emerges from the exchange of research insights and innovative ideas in the domains of Artificial Intelligence Intelligent Computing Blockchain Communication and Security With a special emphasis on intelligent financial systems secure transactions real time monitoring and assistive technologies this proceedings compilation serves as a comprehensive resource on technologies shaping the digital era Key features of this book include A wide ranging exploration of current research trends in Artificial Intelligence and Blockchain with emphasis on their integration into secure and intelligent living systems Detailed illustrations of system models and architectures that portray real world AI applications In depth discussions on the practical role of AI and Blockchain in sectors like banking healthcare communication navigation and cybersecurity An analytical perspective on the challenges and future opportunities of deploying AI and Blockchain in healthcare education finance and other industries This book is intended for research scholars academicians undergraduate and postgraduate students Ph D candidates industry professionals technologists and entrepreneurs seeking to deepen their understanding of intelligent and secure systems

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