
Semantic Enhanced Blockchain Technology For Smart Cities

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Semantic enhanced blockchain technology for smart cities

A semantic enhanced blockchain basically amounts to a Service Oriented Architecture SOA for regulating registration discovery selection and payment operations implemented as distributed smart contracts validated by consensus This paper illustrates ongoing work on a novel framework integrating a semantic based resource discovery layer in a

Block Chain Technologies amp The Semantic Web A Framework

more robust Semantic Web and subsequently we provide a framework wherein the Semantic Web is utilized to ameliorate block chain technology itself Keywords Block Chain Smart Contracts Linked Data Semantic Web 1 Introduction With the rise of the Bitcoin cryptocurrency the concept of distributed block chain databases received wider attention

Block VN A Distributed Blockchain Based Vehicular Network

Block VN A Distributed Blockchain Based Vehicular Network Architecture in Smart City Pradip Kumar Sharma Seo Yeon Moon and Jong Hyuk Park Abstract In recent decades the ad hoc network for vehicles has been a core network technology to provide comfort and security to drivers in vehicle environments

PDF Smarter City Smart Energy Grid based on Blockchain

Smarter City Smart Energy Grid based on Blockchain Technology Article PDF Available · February 2018 with 5 597 Reads DOI 10 18517 ijaseit 8 1 4954

Hawk The Blockchain Model of Cryptography and Privacy

All transactions including flow of money between pseudonyms and amount transacted are exposed on the blockchain We present Hawk a decentralized smart contract system that does not store financial transactions in the clear on the blockchain thus retaining transactional privacy from the public's view

A Survey on the Security of Blockchain Systems Semantic

Since its inception the blockchain technology has shown promising application prospects From the initial cryptocurrency to the current smart contract blockchain has been applied to many fields Although there are some studies on the security and privacy issues of blockchain there lacks a systematic examination on the security of blockchain systems

PDF Securing Smart Cities Using Blockchain Technology

Securing Smart Cities Using Blockchain Technology A smart city uses information technology

to integrate and manage physical social and business infrastructures in order to provide better services to its dwellers while ensuring efficient and optimal utilization of available resources
With the proliferation of technologies such as Internet

Top 20 Blockchain Books amp Whitepapers to Read

Blockchain Books The Business Blockchain Promise Practice and Application of the Next Internet Technology by William Mougayar Drawing on decades of experience in the technology industry William Mougayar wrote this book to describe a collective human future influenced largely by fundamental shifts emanating from blockchain technology

How can blockchain help smart cities BBVA

Incorporating blockchain into the development of smart cities will make it possible to have a cross cutting platform that connects the cities' different services adding greater transparency and security to all processes In this new BlockchainRevolution article Stefan Junestrand explains how this technology can improve government management support urban planning underpin the

How blockchain technology could change our lives

1 Currencies the vanguard of blockchain technology While currencies are just one of several possible application areas of blockchain technology they are by far the most popular Likewise while Bitcoin is just one of many currencies implemented via a blockchain it is by far the most well known Many recent initiatives have focussed upon the

Blockchain based sharing services What blockchain

In Section Blockchain based sharing services Toward smart cities we analyze the features of the management and computing of blockchain based sharing services within the framework and consider what blockchains may contribute to smart city development

OF BITCOIN AND BLOCKCHAIN bbva com

You can t mention Blockchain without mentioning Bitcoin The virtual currency is the symbol of blockchain technology which aspires to change payment systems Bitcoin has been at the center of scandals since was launched in 2009 although proof of the fact that it is becoming stronger can be found in the first statement by the

Blockchain Bitcoin and the Semantic Web A Synopsis of

Currently every computer processes every single transaction in the network which is an enormous amount of data that leads to bottlenecks and slower processing overall Blockchain scaling aims to accelerate the rate of processing by figuring out how many computers are required to complete a transaction

How Is eMudhra Using Blockchain Technology To Develop

eMudhra a technology digital identity and transaction management company providing solutions easing out financial and statutory needs of consumers announced the launch of an R amp D center in blockchain related technologies in Bengaluru Aimed at further enhancing Blockchain based systems for Smart Cities the 2008 founded company intends to be a leader in this space

Smart Cities and Blockchain Four Countries Where AI and

The US Alibaba Cloud and Waltonchain signed an agreement on strategic cooperation aimed at using blockchain technology in the field of smart cities. The results of the partnership are designed to address the problem of limited resources and services caused by the rapidly growing megapolis population.

Blockchain in Dubai Smart cities from concept to reality

Dubai is known for being at the forefront of technological innovation. As one of the first governments to engage with blockchain, Dubai's story is inspirational and can provide a road map to anyone interested in creating smart cities by transforming transactions with the distributed ledger technology.

Most Cited Blockchain Publications – Blockchain Library

Most Cited Blockchain Publications Last updated October 26th 2017
“Book Smart Not Street Smart Blockchain Based Smart Contracts and The Social Workings of Law“ KEC Levy 2017
“Securing Smart Cities Using Blockchain Technology“ K Biswas V Muthukkumarasamy 2016

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Semantic blockchains in the supply chain

Linked Pedigrees • Datasets described and accessed using linked data principles • Encapsulate the knowledge required to trace and track products in supply chains on a Web scale • Facilitate the interlinking of a variety of related and relevant data i.e. GS1 product master data with event data PLUS other data outside the GS1 system • Based on a domain independent data model for the

Blockchain in Smart Cities Smart City News Blogs and Research

Blockchain and Smart Cities As our cities are heading towards a smart infrastructure based on the internet of things (IoT) and digital technology, usage of smart currency can add impetus to their growth. When every sector of society, whether it is healthcare, energy, banking, government projects, everyone is utilizing online and digital space.

I

The Blockchain is the perfect platform to make Semantic web principles widely used and to add to datasets a new property that is “trust.” Blockchain logs the truth or at least the accepted truth by transactions or Smart Contracts interaction, thus these new datasets are completely trustable.

Blockchain and Internet of Things Based Technologies for

Abstract Water is a critical and indispensable resource for the sustainability of life, economic development, and the environment. According to the United Nations (UN), estimates show that 70% of the world's population will live in cities by the year 2025, and the current centralized piped infrastructure relied upon by water utilities will be inadequate.

Blockchain For Books The Alliance of Independent Authors

The Alliance of Independent Authors just launched its Blockchain for Books campaign and has published a white paper assessing the technology's potential. The association says blockchain

and other hypertext software systems “supercede copyright protection” and prevent piracy by providing “indisputable” proof of ownership

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Making Blockchain Real for Business Explained IBM

Making Blockchain Real for Business Explained V3 4 8 September 16 Contents is Blockchain is it relevant for our business Smart contract • Verifiable signed • Encoded in programming language advance Blockchain technology by identifying and

The Future Is Now Smart Cities on the Ethereum Blockchain

The term is inclusive of ‘digital cities’ or ‘connected cities’ but the ‘smart’ in the name refers to technology that can be automated through the use of computer networks like Ethereum and the blockchain THE TECHNOLOGY One of the ways blockchains supports smart cities is through the Internet of Things IoT

Blockchain The Comprehensive Guide To Book Library

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Blockchain Role in Smart Cities IoT Security—A

Blockchain Role in Smart Cities IoT Security—A Cryptographic Perspective CCS T08 hilal hussein gmail com RSAC Agenda Internet of Things IoT IoT Security Requirements Blockchain technology Management all the updates in terms of integrity and source authenticity using blockchain This is in addition to managing the IoT

Blockchain Technologies for the Automotive Industry

Blockchain Technologies for the Automotive Industry A Ginkgo Management Consulting White Paper 2017 From autonomous cars to smart cities in the near future vehicles will need to interact with their blockchain technology delivers is to look at the vehicle leasing lifecycle see figure 3 and to identify which

Semantic Blockchain Semantic web on with the blockchain

Semantic Bitcoin Blockchain Explorer SBBE One very initial good use case of BLONDIE Blockchain Ontology with Dynamic Extensibility is a Bitcoin Blockchain Explorer More Precisely a Semantic Bitcoin Blockchain Explorer SBBE A Blockchain Explorer is a program or web site that lets users search and navigate a block chain Uses include

Blockchain Technology UC Berkeley Sutardja Center

Blockchain technology is finding applications in wide range of areas—both financial and non financial Financial institutions and banks no longer see blockchain technology as threat to traditional business models The world’s biggest banks are in fact looking for opportunities in

this area by doing research

Making Smart Contracts Smarter Cryptology ePrint Archive

Making Smart Contracts Smarter Loi Luu National University of Singapore loiluu comp nus edu sg emerge on top of the Bitcoin blockchain we expect the number of smart contracts to grow Security problems in smart contracts Smart contracts in practice because of a semantic gap between the assump

Exploring the Possibilities of Blockchain Use in a Smart City

Blockchain technology in that it is focused on decentralization and in terms of functioning is transparent can help increase the value of a smart city From its implementation of electricity transactions to natural resource management this technology can always find its place in the development priorities of new cities based on smart grid systems

A more pragmatic Web 3 0 Linked Blockchain Data

by Smart Contracts could be the core technology for arti?cial intelligent agents with reasoning ability After reading this paper replace “Semantic Web” with “Blockchain” or even better with “Semantic Blockchain” in the next quote and you will realize that it ?ts perfectly

Blockchain based sharing services What SpringerLink

The ambiguity of the concept causes difficulty in understanding how information technology IT adoption impacts smart cities’ development Komninos et al 2013 As such to grasp the effects of emerging blockchain technology on the growth of smart cities it calls forth the use of an observation perspective to identify their essential elements

What are the best books for learning about the block chain

The following books have led me to a decent understanding of the underlying blockchain technology 1 Bitcoin for the Befuddled by Conrad Barski and Chris Wilmer This book is fantastic if you want to get an overview of the cryptography side of

BLOCKCHAIN FOR DUMMIES EIT Digital

VALUE OF BLOCKCHAIN The magic of How... Business value Distributed ledgers Everybody has the same ledger Efficiency gains of old and new processes one truth Blockchain All transactions executed based on consensus No trusted third parties collective truth Smart contracts Every contract is programmable All conditions are coded as part of the

Top 10 Semantic Web Products of 2010 ReadWrite

Every year ReadWriteWeb selects the top 10 products or developments across a range of categories We kick off the 2010 Best Of series with our selection of the top 10 Semantic Web products and

HOW BLOCKCHAIN TECHNOLOGY CAN ENHANCE EHR OPERABILITY

1 HOW BLOCKCHAIN TECHNOLOGY CAN ENHANCE EHR OPERABILITY ARK INVEST GEM Introduction In healthcare information is not only private it is proprietary While doctors and patients yearn for a digital and unified patient record the infrastructure required to accomplish this doesn’t exist yet

Understanding Blockchain Technology RBS

Understanding Blockchain Technology Introduction Disruptive technology continues to radically change the way the world operates whilst impacting negating and creating new business models across industries Blockchain is an example of a disruptive technology that could have the same transformational impact as the Internet

B sian nsights DBS Bank

blockchain technology has been latched on to by the largest global banks Financial institutions are driving this new technology and pioneering experiments Initially blockchains were thought of as a new way to gain efficiency and reduce risk and cost across the entire industry by offering a self reconciling database for clearing trades

What is Blockchain Technology A Step by Step Guide For

What is Blockchain Technology A Step by Step Guide For Beginners TLDR A blockchain is a growing list of records called blocks which are linked using cryptography Each block contains a cryptographic hash of the previous block a timestamp and transaction data generally represented as a Merkle tree By design a blockchain is resistant to modification of the data

Inside blockchain s simmering war of semantics Digiday

Inside blockchain's simmering war of semantics February 27 2017 by Tanaya Macheel Blockchain has a branding problem and a recent skirmish involving R3 shed new light on it

Huawei on blockchain in the the smart city BusinessTech

Huawei on blockchain in the the smart city Brian Molefe joins the army earning R57 000 a month Next article Taxpayers pay R700 000 for minister s braai place report Previous article

Can Blockchain Revolutionise the Smart Cities Irish

Transportation – Use of blockchain in ridesharing platforms would disrupt the disruptors Uber and Lyft and will make these platforms peer to peer enabling a more distributed economy The power of blockchain and its potential applications make it a very suitable and viable solution for information and communication systems in smart cities

NeuroChain The Intelligent Blockchain

NeuroChain technology makes complex distributed applications possible traceability issues Crypto Value smart applications smart properties social networks or trusted distributed platforms The NeuroChain allows a new wave of Blockchain and the true unleashing of decentralized and disintermediated economy

November 2015 Version 1 0 Blockchain amp Beyond

Blockchain 2 0 Ethereum World computer Smart Contract Smart Property The Internet of Decenthings being built with the blockchain technology For that purpose CELLABZ spent the last two years analysing meeting and working with many actors it is a book keeping or publicly available ledger used to keep track of a transaction for

Semantic Blockchain Semantic web on with the blockchain

This data can contain URI pointing to other data store inside the blockchain non HTTP URIs for example Smart Contracts Addresses And or Create a new blockchain framework altcoin or from scratch based completely on Semantic web principles Handling blockchain metadata with

RDF format enabling SPARQL queries natively etc

Blockchain A Step By Step Guide For Beginners To

If you want to understand the potential of blockchain this book can be helpful for you Through Blockchain A Step By Step Guide for Beginners to Implementing Blockchain Technology and Leveraging Blockchain Programming you will be able to learn the importance of this technology along with challenges You will learn its impact on your life

Blockchain Control SpringerLink

The reason for this is that the link between objects needs to be 'secure' from undesired external interference In relation to such interests blockchain has been identified as a highly attractive technology to support the general digitalization of society towards the Internet of Things smart cities etc

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