Semantic Enhanced Blockchain Technology For Smart Cities

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Semantic Enhanced Blockchain Technology For

Semantic-enhanced blockchain technology for smart cities ...
A semantic-enhanced blockchain basically amounts to a Service-Oriented Architecture (SOA) for regulating reg-istration, discovery, selection and payment operations, imple-mented 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
BLOCKCHAIN TECHNOLOGY AND SMART ... - 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 is a DLT which is organized as a chain of blocks that contain transactional
Semantic Blockchain to Improve Scalability in the Internet ...
Semantic Blockchain to Improve Scalability in the Internet of Things Michele Ruta, Floriano Scioscia, Saverio Ieva, Giovanna Capurso, Eugenio Di Sciascio semantic-enhanced pervasive computing by embedding about blockchain technology and Semantic Web of Things are provided in this section 21 Blockchain Basics
Poster: Supply Chain Object Discovery with Semantic ...
Poster: Supply Chain Object Discovery with Semantic-enhanced Blockchain Michele Ruta, Floriano Scioscia, Saverio Ieva, Giovanna Capurso, Eugenio Di Sciascio Department of Electrical and Information Engineering, Polytechnic University of Bari Bari, Italy {micheleruta,florianoscioscia,saverioieva,giovannacapurso,eugeniodisciascio}@polibait
Semantic-enhanced National Access Points to Multimodal ...

semantically-enhanced metadata profile and associated with a specific lifecycle man-agement The Semantic Assets Manager5 is composed of two Web application, namely the publisher6 and the store7, supporting the publishing and the discovery of the assets, respectively To further strengthen the satisfaction of R4, we have included blockchain

Blockchain Thinking: The Brain as a DAC ... - Semantic Scholar

The objective is to formulate thinking as a blockchain process, which could have benefits for both enhanced human biological thinking, and machine thinking or artificial intelligence This paper is intended as a forward-looking highly-speculative application …

Enabling smart connectivity through DLT and clear semantic ...

semantic data standards ITU FG DLT Interoperability Workshop UN Economic Commission for Europe (UNECE) 2 UN/CEFACT Work on Blockchain enhanced by blockchain technology 12 A clear semantic base is key! UN/CEFACT Core Component Library (CCL)

M2M Security Technology of CPS Based on Blockchains

the blockchain technology can effectively solve the safety of expansion of machines in the production A privacy-enhanced waveform design approach A reputation model on trust management is proposed for a semantic P2P grid, which can achieve good computational complexity with high ranking accuracy [23]

LOGOS, MYTHOS AND ETHOS OF BLOCKCHAIN: AN ...

Blockchain technology is a distributed presentation of data (or ledger) which can record, store and pillar is enhanced by the core rules and practices namely conflict of interest rules, fair elections, Furthermore, using semantic technologies enable to recognize and prevent irregularities earlier in public activities, particularly in

Towards an Ontology-Driven Blockchain Design for Supply ...

Towards an Ontology-Driven Blockchain Design for Supply Chain Provenance meta-data, and timestamps, for example Moreover, semantic Web technologies facilitate the semantic and workflow modelling and inference required for Web we make the case that ontology-based blockchain modeling will result in a blockchain with enhanced

Artificial Intelligence and Blockchain Technology ...

The enhanced democratic teaming model with artificial intelligence and blockchain technology is a natural evolution of the X-management type of teaming process based

The Feasibility of Blockchain for Supply Chain Operations ...

Because blockchain remains a new technology, the search enhanced flow to provide fresher products to customers, and boosted consumer trust, traders by smart contracts on the andblockchain uses machine learning for semantic analysis 17 In their 2018 literature review, et al point out that among the 40 papers Tribis

Impact of Technology on the Public Sector - PULSAR) Program

Consolidated and integrateddata analytics for enhanced decision making Semantic Taxonomy Unstructured Data Semi-Structured Data Meta Data Layer Visualization Asset -less Blockchain • Distribution: Community Blockchain Procedure • banks, public institutions, justice, etc • The Blockchain Technology enables an improved

Auto-Generation of Smart Contracts from Domain-Specific ...

of blockchain technology and smart contracts, there is an essential need to facilitate translation of constraints from legal agreements or protocols to

smart contracts A process to automatically generate smart contract can further help in reproducibility as a domain-specific template can be reused for different contracts and constraints

NeuroChain: The Intelligent Blockchain

Blockchain technology, demonstrate the potential and interest in this new mode of interaction and exchange The elimination of intermediate parties and direct communication between stakeholders allow for an increase in trust through the replication of information and validation processes in a network

Technology Final Report - Purdue University

blockchain-based data provenance architecture is proposed in [30] to provide enhanced availability and privacy in cloud environments Blockchain provides integrity to provenance data through its immutable property [31] Our research will utilize data provenance with blockchain technology for modeling autonomy in smart systems 13 Proposed Solution

Blockchain Technology and IoT New Challenges

BLOCKCHAIN TECHNOLOGY EU Blockchain Partnership build on enhanced sensing/actuating, reasoning capabilities and computational power to the edges, but also new capabilities such as artificial intelligence, deep semantic interoperability and novel contractual arrangements like Blockchains Timeline: •Call opening: 31st October 2017

IBM’s contributions towards achieving the United Nations ...

blockchain technology, IBM is helping to address business and sustainability challenges of our clients, while also contributing to the achievement of the UN SDGs With blockchain, IBM is playing an active role in the achievement of enhanced food security and improved nutrition through better data across food supply chains

Alibaba Technology

Champion at Global Semantic Understanding Competition “SemEval" Traffic Drive and User Acquisition Machine Intelligence Data Computing Robot Financial Technology X •Speech Intelligence •Vision Intelligence •Language Technology Quantum-Enhanced Solutions Quantum Computing System Quantum Algorithms Quantum Processor