A Proposed Architecture for Big Data Driven Supply Chain Analytics

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Abstract

Advancement in *information and communication technology* (ICT) has given rise to explosion of data in every field of operations. Working with the enormous volume of data (or Big Data, as it is popularly known as) for extraction of useful information to support decision making is one of the sources of competitive advantage for organizations today. Enterprises are leveraging the power of analytics in formulating business strategy in every facet of their operations to mitigate business risk. Volatile global market scenario has compelled the organizations to redefine their *supply chain management* (SCM). In this paper, we have delineated the relevance of Big Data and its importance in managing end to end supply chains for achieving business excellence. A Big Data-centric architecture for SCM has been proposed that exploits the current state of the art technology of data management, analytics and visualization. The security and privacy requirements of a Big Data system have also been highlighted and several mechanisms have been discussed to implement these features in a real world Big Data system deployment in the context of SCM. Some future scope of work has also been pointed out.

Keyword: Big Data, Analytics, Cloud, Architecture, Protocols, Supply Chain Management, Security, Privacy.

1. Introduction

In recent years, SCM has become one of the key enablers for achieving competitive advantage. An effective SCM can be proved critical for the success or failure of an organization and thus it becomes an important value driver for organizations. Increased

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Michael Wade,Didier Bonnet,Tomoko Yokoi,Nikolaus Obwegeser

A Proposed Architecture For Big Data Driven Supply Chain:

A Proposed Architecture for Big Data Driven Supply Chain Analytics Sanjib Biswas,2016 Advancement in information and communication technology ICT has given rise to explosion of data in every field of operations Working with the enormous volume of data or Big Data as it is popularly known as for extraction of useful information to support decision making is one of the sources of competitive advantage for organizations today Enterprises are leveraging the power of analytics in formulating business strategy in every facet of their operations to mitigate business risk Volatile global market scenario has compelled the organizations to redefine their supply chain management SCM In this paper we have delineated the relevance of Big Data and its importance in managing end to end supply chains for achieving business excellence A Big Data centric architecture for SCM has been proposed that exploits the current state of the art technology of data management analytics and visualization The security and privacy requirements of a Big Data system have also been highlighted and several mechanisms have been discussed to implement these features in a real world Big Data system deployment in the context of SCM Some future scope of work has also been pointed out Proceedings of the 6th International Conference on Decision Support System Technology – ICDSST 2020 on Cognitive Decision Support Systems & Technologies Isabelle Linden,Alberto Turón,Fatima Dargam,Uchita Jayawickrama,2021-05-27 *Handbook of Research on Blockchain Technology and the Digitalization of the Supply Chain* Najar, Tharwa,Najar, Yousra,Aloui, Adel,2023-06-06 Blockchain is a recent technology that is promising to revolutionize the way supply chains are designed and operated Regarding its role in securing exchanges of data this technology has remarkably changed the manner of governing the structure of the supply chain relationships and the way that transactions are made Blockchain technology is likely to influence future supply chain practices by performing electronic integration supporting partners connections and offering real time information flows Thus blockchain technologies are gaining interest among both academicians and professionals This interest concerns the conceptual level and also the practical and concrete levels of the implementation of blockchain technology in supply chains The Handbook of Research on Blockchain Technology and the Digitalization of the Supply Chain presents blockchain s basic concepts and pertinent methods that contributed to meeting key supply chain management objectives It determines the current trends and challenges in the use of blockchain to enhance supply chain management Covering topics such as communication systems documentation systems and supply chain evolution this major reference work is an excellent resource for business leaders and managers logistics professionals IT managers students and educators of higher education librarians researchers and academicians Revisiting Supply Chain Risk George A. Zsidisin,Michael Henke,2018-12-18 This book offers a bridge between our current understanding of supply chain risk in practice and theory and the monumental shifts caused by the emergence of the fourth industrial revolution Supply chain risk and its management have experienced significant attention in scholarship and practice over the past twenty years Our understanding of supply chain risk and its many facets such as

uncertainty and vulnerability has expanded beyond utilizing approaches such as deploying inventory to buffer the initial effects of disruptions Even with our increased knowledge of supply chain risk being in the era of lean supply chain practices digitally managed global supply chains and closely interconnected networks firms are exposed as ever to supply chain uncertainties that can damage or even destroy their ability to compete in the marketplace The book acknowledges the criticality of big data analytics in Supply Chain Risk Management SCRM processes and provides appropriate tools and approaches for creating robust SCRM processes Revisiting Supply Chain Risk presents a state of the art look at SCRM through current research and philosophical thought It is divided into six sections that highlight established themes as well as provide new insights to developing areas of inquiry and contexts on the topic Section 1 examines the first step in managing supply chain risk risk assessment The chapters in Section 2 encompass resiliency in supply chains while Section 3 looks at relational and behavioral perspectives from varying units of analysis including consortiums teams and decision makers Section 4 focuses on examining supply chain risk in the contexts of sustainability and innovation Section 5 provides insight on emerging typologies and taxonomies for classifying supply chain risk The book concludes with Section 6 featuring illustrative case studies as real world examples in assessing and managing supply chain risk **Advances in Emerging Trends and Technologies** Miguel Botto-Tobar,Joffre León-Acurio,Angela Díaz Cadena,Práxedes Montiel Díaz,2019-10-12 This book constitutes the proceedings of the 1st International Conference on Advances in Emerging Trends and Technologies ICAETT 2019 held in Quito Ecuador on 29 31 May 2019 jointly organized by Universidad Tecnol gica Israel Universidad T cnica del Norte and Instituto Tecnol gico Superior Rumi ahui and supported by SNOTRA ICAETT 2019 brought together top researchers and practitioners working in different domains of computer science to share their expertise and to discuss future developments and potential collaborations Presenting high quality peer reviewed papers the book discusses the following topics Technology Trends Electronics Intelligent Systems Machine Vision Communication Security e Learning e Business e Government and e Participation **Africa's Platforms and the Evolving Sharing Economy** Umukoro, Immanuel Ovemeso,Onuoha, Raymond Okwudiri,2020-12-18 Digital transformation concepts have created new business principles such as the on demand economy and a new sharing economy While the on demand economy has primarily grown out of industrialized economies especially North America Africa has been known to exhibit communal living characterized by sharing Literature has shown that the introduction of ICTs to everyday life and business has redefined the concept of sharing and also evolved an entirely new spectrum of sharing both in the individual and business settings Alongside this new spectrum is a new disruptive business model known as the platform business model While the subject continues to attract interest globally and locally there is a need to deepen the understanding of this subject to validate global perspectives on platforms as economic drivers within the African context Africa s Platforms and the Evolving Sharing Economy is an essential reference source that explores evidence based platform dynamics and their impact on Africa as a continent leveraging

technology for economic development The book also delves into current data protection and privacy issues and the policies and regulations that could impact the design deployment and use of platforms for businesses Featuring research on topics such as digital design e commerce and enterprise information systems this book is ideally designed for government officials economists business executives managers academicians students researchers and global finance professionals   <u>Advanced Information Systems Engineering</u> Eric Dubois,Klaus Pohl,2017-06-01 This book constitutes the refereed proceedings of the 29th International Conference on Advanced Information Systems Engineering CAiSE 2017 held in Essen Germany in June 2017 The 37 papers presented together with 3 keynote papers in this volume were carefully reviewed and selected from 175 submissions The papers are organized in topical sections on information systems architecture business process alignment user knowledge discovery business process performance big data exploration process variability management information systems transformation and evolution business process modeling readability business process adaption data mining process discovery business process modeling notation   **Supply Chain Finance** Wendy Tate,Lydia Bals,Lisa Ellram,2018-12-03 Supply Chain Finance is a contributed book looking at the two major perspectives of managing finance across the supply chain The first is more short term focused on accounts payables and receivables The second is a more overarching perspective focused on working capital optimization in terms of inventory and asset management It includes chapters from a variety of research perspectives as well as from business and policymakers The authors look at the benefits of the supply chain finance approach including reduction of working capital access to more funding at lower costs risk reduction as well as an increase of trust commitment and profitability through the chain Supply Chain Finance includes theory as well as practical case studies addressing advances in the area of supply chain finance The editors and contributors look at how to design and implement supply chain finance in supply chains and examine what the future holds for this important area Online supporting resources include self test multiple choice and essay questions for each chapter   *Integrated Waste Biorefineries: Achieving Sustainable Development Goals, 2nd edition* Mohammad Rehan,Muhammad Amjad,Ala'A Al-Muhtaseb,Muhammad Abdul Qyyum,Konstantinos Moustakas,Su Shiung Lam,Abdul-Sattar Nizami,Meisam Tabatabaei,Imtiaz Ali,Arshid Mahmood Ali,Muhammad Farooq,2024-01-11 The United Nations Sustainable Development Goals SDGs are designed to revolutionize societies to prepare for the future challenges However the practical implementation of such goals in many domains is are yet to be achieved despite of unique essence Sustainable energy production aligned with SDG 7 clean water and sanitation aligned with SDG 6 sustainable waste services aligned with SDG 11 and mitigating climate change impacts aligned with SDG 13 have been the prime focus of SDGs Moreover much attention is being paid to research and development activities on waste prevention reduction recycling and reuse to achieve responsible consumption and production aligned with SDG 12 Waste biorefineries have emerged as a sustainable environmental management solution to achieve not only the aforementioned SDGs but also to accomplish no poverty aligned with SDG 1 and zero hunger aligned with SDG 2 and to

maintain well being and good health aligned with SDG 3 and decent work and economic growth aligned with SDG 8 worldwide This is true because integrated waste biorefineries can efficiently and sustainably produce fuels heat energy power and multiple value added products and chemicals It can further facilitate the transition from linear to circular economies and mitigate the major challenges faced including environmental pollution climate change and adverse effects on public health This Research Topic will focus on different types of waste biorefineries current status practical implications optimization of waste to energy technologies detailed life assessment studies and future opportunities with a vision to achieve SDGs in the areas of sustainable energy generation waste management circular economies and climate change mitigation The editorial team of this special issue consisting of world renowned scientists including Highly Cited Researchers welcomes submissions of original research articles review articles short communications industrial and or country region case studies that covers the following enlisted topics Waste biorefineries e g organic waste biorefinery agricultural and forestry waste biorefinery etc Integration of different types of biorefineries Sustainable development goals Waste to energy technologies Energy and resource recovery from biomass and other waste Renewable and sustainable energy systems Biomass and waste supply chain Sustainable waste management systems Mitigation of environmental pollution and climate change Life cycle assessment Sustainable circular and bio based economies **Oracle Big Data Handbook** Tom Plunkett,Brian Macdonald,Bruce Nelson,Mark Hornick,Helen Sun,Khader Mohiuddin,Debra Harding,Gokula Mishra,Robert Stackowiak,Keith Laker,David Segleau,2013-10-06 Transform Big Data into Insight In this book some of Oracle s best engineers and architects explain how you can make use of big data They ll tell you how you can integrate your existing Oracle solutions with big data systems using each where appropriate and moving data between them as needed Doug Cutting co creator of Apache Hadoop Cowritten by members of Oracle s big data team Oracle Big Data Handbook provides complete coverage of Oracle s comprehensive integrated set of products for acquiring organizing analyzing and leveraging unstructured data The book discusses the strategies and technologies essential for a successful big data implementation including Apache Hadoop Oracle Big Data Appliance Oracle Big Data Connectors Oracle NoSQL Database Oracle Endeca Oracle Advanced Analytics and Oracle s open source R offerings Best practices for migrating from legacy systems and integrating existing data warehousing and analytics solutions into an enterprise big data infrastructure are also included in this Oracle Press guide Understand the value of a comprehensive big data strategy Maximize the distributed processing power of the Apache Hadoop platform Discover the advantages of using Oracle Big Data Appliance as an engineered system for Hadoop and Oracle NoSQL Database Configure deploy and monitor Hadoop and Oracle NoSQL Database using Oracle Big Data Appliance Integrate your existing data warehousing and analytics infrastructure into a big data architecture Share data among Hadoop and relational databases using Oracle Big Data Connectors Understand how Oracle NoSQL Database integrates into the Oracle Big Data architecture Deliver faster time to value using in database analytics Analyze data with

Oracle Advanced Analytics Oracle R Enterprise and Oracle Data Mining Oracle R Distribution ROracle and Oracle R Connector for Hadoop Analyze disparate data with Oracle Endeca Information Discovery Plan and implement a big data governance strategy and develop an architecture and roadmap   **Big Data Driven Supply Chain Management** Nada R. Sanders,2014 Master a complete five step roadmap for leveraging Big Data and analytics to gain unprecedented competitive advantage from your supply chain Using Big Data pioneers such as Amazon UPS and Wal Mart are gaining unprecedented mastery over their supply chains They are achieving greater visibility into inventory levels order fulfillment rates material and product delivery using predictive data analytics to match supply with demand leveraging new planning strengths to optimize their sales channel strategies optimizing supply chain strategy and competitive priorities even launching powerful new ventures Despite these opportunities many supply chain operations are gaining limited or no value from Big Data In Big Data Driven Supply Chain Management Nada Sanders presents a systematic five step framework for using Big Data in supply chains You ll learn best practices for segmenting and analyzing customers defining competitive priorities for each segment aligning functions behind strategy dissolving organizational boundaries to sense demand and make better decisions and choose the right metrics to support all of this Using these techniques you can overcome the widespread obstacles to making the most of Big Data in your supply chain and earn big profits from the data you re already generating For all executives managers and analysts interested in using Big Data technologies to improve supply chain performance   □□□□□□□□□□ Zhiying Zhou,Scott Tilley,2005   **Hacking Digital: Best Practices to Implement and Accelerate Your Business Transformation** Michael Wade,Didier Bonnet,Tomoko Yokoi,Nikolaus Obwegeser,2021-09-28 Improve your business performance through digital transformation Digital transformation has become commonplace across public and private sector organizations and yet most struggle to achieve tangible results from it Many make avoidable mistakes or fall into simple traps along the way Written by a team of global digital transformation thought leaders Hacking Digital provides practical advice and information that you need to successfully transform your organization Hacking Digital is organized into six easy to follow sections Initiating Your Digital Transformation Setting Up the Right Organizational Dynamics Working with the Outside World Creating Value in New Ways Leading People and Organizations Anchoring and Sustaining Performance How do you create a sense of urgency How do you set up digital governance How do you create successful digital offerings How do you manage the relationship between digital transformation and IT How do you scale digital initiatives Hacking Digital answers these and many other questions you need to transform your organization and seize a competitive edge for years to come www hackingdigital org   **Business Week** ,2005   **Digital Supply Networks: Transform Your Supply Chain and Gain Competitive Advantage with Disruptive Technology and Reimagined Processes** Amit Sinha,Ednilson Bernardes,Rafael Calderon,Thorsten Wuest,2020-07-21 Deliver unprecedented customer value and seize your competitive edge with a transformative digital supply network Digital tech has disrupted life and business as we know it and supply chain

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Reviewing **A Proposed Architecture For Big Data Driven Supply Chain**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**A Proposed Architecture For Big Data Driven Supply Chain**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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