

supply chain risk intelligence

supply chain risk intelligence is an essential discipline in today's globalized and interconnected business environment. It involves the systematic gathering, analysis, and interpretation of data related to potential risks that could disrupt the supply chain. Organizations leverage supply chain risk intelligence to identify vulnerabilities, anticipate disruptions, and implement proactive strategies to mitigate adverse impacts. As supply chains become more complex and exposed to various geopolitical, environmental, and economic risks, the need for effective risk intelligence has never been greater. This article explores the fundamentals of supply chain risk intelligence, the technologies and methodologies employed, and its critical role in enhancing supply chain resilience. Additionally, it examines best practices for integrating risk intelligence into supply chain management and highlights emerging trends shaping the future of this vital field.

- Understanding Supply Chain Risk Intelligence
- Key Components of Supply Chain Risk Intelligence
- Technologies Enabling Supply Chain Risk Intelligence
- Benefits of Implementing Supply Chain Risk Intelligence
- Best Practices for Developing Supply Chain Risk Intelligence
- Challenges in Supply Chain Risk Intelligence
- Future Trends in Supply Chain Risk Intelligence

Understanding Supply Chain Risk Intelligence

Supply chain risk intelligence refers to the continuous process of collecting, analyzing, and disseminating information about potential threats to the supply chain. These threats can be internal or external and range from natural disasters and supplier insolvency to geopolitical instability and cyberattacks. The primary goal of supply chain risk intelligence is to provide decision-makers with actionable insights that enable timely and informed responses to minimize disruption. By understanding the various risks affecting different stages of the supply chain, organizations can prioritize resources, enhance visibility, and build more resilient operations.

Definition and Scope

The scope of supply chain risk intelligence encompasses all activities related to identifying, assessing, and monitoring risks that could affect the sourcing, production, transportation, and delivery of goods and services. It integrates data from multiple sources, including supplier performance metrics, market trends, regulatory changes, and environmental factors. Effective supply chain risk intelligence involves cross-functional collaboration, combining expertise from procurement, logistics, compliance, and risk management teams to develop a comprehensive risk profile.

Types of Supply Chain Risks

Supply chain risks can be broadly categorized into several types, each requiring specific intelligence approaches:

- **Operational Risks:** Disruptions related to equipment failure, labor shortages, or process inefficiencies.
- **Supplier Risks:** Financial instability, quality issues, or non-compliance by suppliers.
- **Geopolitical Risks:** Trade restrictions, political unrest, or sanctions affecting supply routes or markets.
- **Environmental Risks:** Natural disasters, climate change impacts, and related regulatory requirements.
- **Cyber Risks:** Threats to digital supply chain systems from hacking, data breaches, or ransomware.

Key Components of Supply Chain Risk Intelligence

Effective supply chain risk intelligence relies on several interrelated components that work together to provide a comprehensive understanding of the supply chain's risk landscape. These components include data collection, risk assessment, monitoring, and communication.

Data Collection and Integration

Accurate risk intelligence begins with collecting relevant data from a variety of internal and external sources. This includes supplier information, logistics data, market analytics, news feeds, and social media monitoring. Integrating these diverse data streams into a centralized platform enables

real-time visibility and supports predictive analytics. Data quality and timeliness are critical for generating reliable risk insights.

Risk Assessment and Prioritization

Once data is collected, it must be analyzed to evaluate the likelihood and potential impact of identified risks. Risk assessment methodologies often incorporate quantitative and qualitative techniques, such as risk scoring, scenario analysis, and stress testing. Prioritizing risks based on their severity helps organizations allocate resources effectively and focus on the most critical vulnerabilities within the supply chain.

Continuous Monitoring and Early Warning Systems

Supply chain risk intelligence requires ongoing monitoring to detect emerging threats promptly. Early warning systems utilize automated alerts and dashboards to notify relevant stakeholders about significant changes in risk indicators. This proactive approach allows companies to respond swiftly and mitigate potential disruptions before they escalate.

Communication and Collaboration

Clear communication channels and collaboration mechanisms are vital for sharing risk intelligence within the organization and with external partners. Establishing protocols for disseminating information ensures that decision-makers at all levels have access to up-to-date risk data and can coordinate response efforts efficiently.

Technologies Enabling Supply Chain Risk Intelligence

Advancements in technology have significantly enhanced the capabilities of supply chain risk intelligence. Various digital tools and platforms facilitate data collection, processing, and analysis, enabling organizations to gain deeper insights into their supply chain risks.

Artificial Intelligence and Machine Learning

AI and machine learning algorithms analyze vast amounts of supply chain data to identify patterns and predict potential disruptions. These technologies improve the accuracy of risk forecasting by learning from historical incidents and adapting to new information in real-time.

Big Data Analytics

Big data analytics enables the processing of structured and unstructured data from multiple sources, including social media, news outlets, and sensor networks. This comprehensive data analysis supports better decision-making by uncovering hidden risks and trends that might otherwise go unnoticed.

Blockchain Technology

Blockchain enhances supply chain transparency and traceability by providing a secure and immutable ledger of transactions. This technology helps verify supplier credentials, track product provenance, and reduce fraud, thereby mitigating supplier-related risks.

Internet of Things (IoT)

IoT devices collect real-time data on inventory levels, shipment conditions, and equipment status. This continuous data feed allows for immediate detection of anomalies and supports timely intervention to prevent disruptions.

Benefits of Implementing Supply Chain Risk Intelligence

Organizations that invest in robust supply chain risk intelligence gain several strategic and operational advantages. These benefits contribute to improved resilience, efficiency, and competitive positioning.

Enhanced Risk Visibility

Supply chain risk intelligence provides comprehensive visibility across the entire supply chain network, enabling early identification of vulnerabilities and potential threats. This transparency supports informed decision-making and proactive risk management.

Improved Resilience and Continuity

By anticipating risks and preparing contingency plans, companies can minimize the impact of disruptions and maintain business continuity. This capability is critical to sustaining customer satisfaction and protecting brand reputation.

Cost Reduction

Effective risk intelligence helps avoid costly supply chain interruptions, reduce emergency procurement expenses, and optimize inventory levels. These cost savings contribute directly to the organization's bottom line.

Regulatory Compliance

Many industries face stringent regulatory requirements related to supply chain transparency and risk management. Supply chain risk intelligence facilitates compliance by providing accurate documentation and audit trails.

Competitive Advantage

Organizations that effectively manage supply chain risks can respond more quickly to market changes and customer demands, gaining an edge over competitors with less agile supply chains.

Best Practices for Developing Supply Chain Risk Intelligence

Implementing supply chain risk intelligence requires a structured approach and adherence to industry best practices to maximize effectiveness.

Establish Clear Objectives and Scope

Define the goals of the risk intelligence program, including which parts of the supply chain to monitor and the types of risks to prioritize. Clear objectives guide resource allocation and technology selection.

Leverage Cross-Functional Collaboration

Engage stakeholders from procurement, logistics, IT, finance, and compliance to ensure diverse perspectives and comprehensive risk coverage. Collaboration enhances data sharing and coordinated response strategies.

Invest in Advanced Technologies

Adopt appropriate digital tools such as AI analytics platforms, IoT sensors, and blockchain systems to enhance data accuracy and processing speed. Technology investments should align with organizational needs and scalability requirements.

Develop Robust Data Governance

Implement policies and procedures to ensure data quality, security, and privacy. Reliable data governance underpins trustworthy risk intelligence outputs.

Continuously Review and Update Risk Models

Regularly assess and refine risk assessment models to incorporate new data, emerging threats, and changing business conditions. Continuous improvement sustains the relevance and accuracy of risk intelligence.

Train and Educate Staff

Provide ongoing training to relevant personnel to build risk awareness and analytical capabilities. Well-informed teams are better equipped to interpret risk intelligence and take appropriate actions.

Challenges in Supply Chain Risk Intelligence

Despite its benefits, developing and maintaining supply chain risk intelligence presents several challenges that organizations must address.

Data Complexity and Quality Issues

Supply chains generate vast amounts of heterogeneous data, which can be incomplete, inconsistent, or outdated. Ensuring data quality and integration remains a significant obstacle.

Limited Visibility into Tier 2 and Beyond Suppliers

Many organizations struggle to obtain reliable information about sub-tier suppliers, increasing vulnerability to hidden risks and disruptions.

Rapidly Evolving Risk Landscape

The dynamic nature of global risks, such as geopolitical shifts and cyber threats, requires constant vigilance and adaptability, complicating risk intelligence efforts.

Resource Constraints

Developing sophisticated risk intelligence capabilities demands investment in technology, skilled personnel, and process improvements, which may be challenging for smaller organizations.

Data Privacy and Security Concerns

Collecting and sharing sensitive supply chain data raises concerns about confidentiality and compliance with data protection regulations.

Future Trends in Supply Chain Risk Intelligence

The field of supply chain risk intelligence is evolving rapidly, driven by technological innovation and changing market dynamics. Several emerging trends are shaping its future trajectory.

Increased Use of Predictive Analytics

Advancements in machine learning and AI will enhance predictive capabilities, enabling earlier and more accurate detection of potential supply chain disruptions.

Greater Integration of Real-Time Data

IoT and sensor technologies will provide continuous, real-time insights into supply chain conditions, fostering more responsive risk management practices.

Expansion of Collaborative Risk Platforms

Shared risk intelligence platforms will facilitate greater transparency and collaboration among supply chain partners, improving collective resilience.

Focus on Sustainability and Ethical Risks

Environmental and social governance (ESG) factors will increasingly be incorporated into risk intelligence frameworks to address sustainability-related supply chain risks.

Adoption of Autonomous Supply Chain Systems

Automation and robotics, combined with AI-driven risk intelligence, will

enable self-adjusting supply chains that can autonomously respond to disruptions.

Frequently Asked Questions

What is supply chain risk intelligence?

Supply chain risk intelligence refers to the process of gathering, analyzing, and interpreting data related to potential risks within a supply chain to proactively manage and mitigate disruptions.

Why is supply chain risk intelligence important for businesses?

It enables businesses to identify vulnerabilities, anticipate disruptions, and implement strategies to maintain continuity, reduce costs, and enhance overall resilience in their supply chains.

What types of risks are monitored in supply chain risk intelligence?

Risks include geopolitical issues, natural disasters, supplier insolvency, cyber threats, regulatory changes, transportation delays, and market fluctuations.

How does technology support supply chain risk intelligence?

Technologies like AI, machine learning, big data analytics, and IoT help collect and analyze vast amounts of data in real-time to provide actionable insights on potential risks.

What role does real-time data play in supply chain risk intelligence?

Real-time data allows companies to quickly detect and respond to disruptions, minimizing impact by enabling faster decision-making and adaptive supply chain management.

How can companies implement effective supply chain risk intelligence?

By integrating advanced analytics tools, establishing continuous monitoring systems, collaborating with suppliers, and developing contingency plans based on risk assessments.

What are the challenges in adopting supply chain risk intelligence?

Challenges include data quality and integration issues, high implementation costs, lack of skilled personnel, and difficulty in predicting complex, interconnected risks.

How does supply chain risk intelligence improve sustainability efforts?

By identifying risks related to environmental and social factors, companies can better manage their supply chains to ensure ethical sourcing, reduce waste, and comply with sustainability regulations.

Can supply chain risk intelligence help in mitigating cyber threats?

Yes, it helps identify vulnerabilities in digital supply chain components, monitor for suspicious activities, and implement proactive security measures to protect sensitive data and operations.

Additional Resources

1. Supply Chain Risk Management: Vulnerability and Resilience in Logistics

This book explores the critical aspects of identifying and managing risks within global supply chains. It provides practical frameworks for assessing vulnerabilities and building resilience to disruptions. Readers will gain insights into risk assessment tools and strategies to maintain supply chain continuity in uncertain environments.

2. Supply Chain Risk Intelligence: Identifying, Assessing, and Mitigating Threats

Focused on the intelligence aspect of supply chain risk, this title delves into how data analytics and information systems can be leveraged to foresee and mitigate risks. It covers methodologies for gathering actionable intelligence and integrating risk insights into decision-making processes. The book is ideal for professionals aiming to enhance proactive risk management.

3. Resilient Supply Chains: Strategies for Risk Management and Recovery

This book highlights strategic approaches to creating supply chains that can withstand and quickly recover from disruptions. It combines theoretical concepts with case studies to demonstrate best practices in risk identification, crisis management, and post-disruption recovery. Readers will learn how to design flexible and adaptive supply chain systems.

4. Global Supply Chain Risk: Management and Practical Approaches

Addressing the complexities of international supply chains, this title

discusses risk factors unique to global operations such as geopolitical instability, regulatory changes, and transportation challenges. The book offers practical tools and techniques for managing these risks effectively. It is a valuable resource for supply chain managers operating in diverse global markets.

5. Supply Chain Risk Analytics: Techniques and Applications

This text introduces advanced analytical methods for quantifying and managing supply chain risks. It covers statistical models, simulation, and machine learning applications tailored to risk intelligence. The book helps readers develop data-driven strategies to anticipate and mitigate potential supply chain disruptions.

6. Cybersecurity and Supply Chain Risk: Protecting Critical Networks

Focusing on the increasing threat of cyber risks in supply chains, this book discusses how cyberattacks can compromise logistics and operations. It provides guidance on identifying cyber vulnerabilities and implementing protective measures. The content is essential for supply chain professionals concerned with safeguarding digital infrastructures.

7. Supply Chain Risk: A Handbook of Assessment, Management, and Performance

This comprehensive handbook covers the full spectrum of supply chain risk management, from risk identification to performance evaluation. It integrates theoretical insights with practical tools, including checklists and assessment frameworks. The book is a useful reference for practitioners aiming to enhance supply chain reliability.

8. Intelligent Supply Chain Risk Management: Leveraging AI and Big Data

Exploring the role of artificial intelligence and big data in supply chain risk intelligence, this book illustrates how emerging technologies can predict and mitigate risks. It includes case studies demonstrating successful AI integration in supply chain risk management. Readers will discover innovative approaches to enhancing supply chain visibility and responsiveness.

9. Managing Supply Chain Disruptions: Risk Intelligence for Business Continuity

This book focuses on the practical aspects of managing disruptions through effective risk intelligence. It emphasizes business continuity planning and real-time risk monitoring techniques. The text equips supply chain managers with actionable strategies to minimize impact and maintain operational stability during crises.

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supply chain risk intelligence: Risk Intelligent Supply Chains Çağrı Haksöz, 2018-10-08 The Turkish economy is very dynamic and growing at phenomenal speeds. For instance, Turkey's first quarter GDP growth rate was 11 percent in 2011. This growth brings its own risks and benefits. The lessons learned from surviving and thriving in such an environment can be applied to supply chains in any country. Packed with interesting and timely examples from industries such as automotive, airline, and manufacturing, *Risk Intelligent Supply Chains: How Leading Turkish Companies Thrive in the Age of Fragility* presents strategic insights from various leading Turkish companies regarding their management of supply chain risks. Çağrı Haksöz brings the risk intelligent supply chain (RISC) concept to life for the first time. It answers the question of how to become a risk intelligent supply chain. He proposes the I-Quartet Model with four essential roles Integrator, Inquirer, Improviser, and Ingenious, that any supply chain network must play to become risk intelligent. The book also presents never-before-published cases and practices of leading Turkish companies that thrive globally in the age of fragility with their supply chain risk intelligence. While providing real-life examples, the book also shares insights obtained in various scientific disciplines. It provides not only an industry focus but also details numerous industry approaches, analyzing their similarities and differences in a manner that allows each industry to learn from the other.

supply chain risk intelligence: Supply Chain Risk Management Gregory L. Schlegel, Robert J. Trent, 2014-10-14 You don't have to outrun the bear ... you just have to outrun the other guy. Often in business we only have to run a bit faster than our competitors to be successful. The same is true in risk management. While we would always like to anticipate and prevent risk from happening, when risk events do occur being faster, flexible, and more responsive than others can make a world of difference. *Supply Chain Risk Management: An Emerging Discipline* gives you the tools and expertise to do just that. While the focus of the book is on how you can react better and faster than the others, the text also helps you understand how to prevent certain risks from happening in the first place. The authors detail a risk management framework that helps you reduce the costs associated with risk, protect your brand and reputation, ensure positive financial outcomes, and develop visible, predictable, resilient, and sustainable supply chains. They provide access to a cloud-based, end-to-end supply chain risk assessment Heat Map that illustrates the maturity of the chain through the various stages. It should not come as a surprise to anyone that the world is a riskier place than it was just 15 years ago. A survey used to calculate the Allianz Risk Barometer recently concluded for the first time that supply chain risk is now the top concern of global insurance providers. For most organizations this new reality requires major adjustments, some of which will not be easy. This book helps you understand the emerging discipline called supply chain risk management. It explains the relevant concepts, supplies a wide variety of tools and approaches to help your organization stay ahead of its competitors, and takes a look at future directions in risk management—all in a clear, concise presentation that gives you practical advice and helps you develop actionable strategies.

supply chain risk intelligence: Strategic Risk, Intelligence And Digital Transformation Eduardo Rodriguez, 2024-03-19 In this book, the study of strategic risk is not only for its control and mitigation using analytics and digital transformation in organizations, but also it is about the strategic risks that digital transformation can bring to organizations. Strategic risk control is one of the goals in creating intelligent organizations and at the same time it is part of the appetite for creating smarter organizations to support organizations' development. Knowledge that is created by data analytics and the capacity to operationalize that knowledge through digital transformation can produce potential sustainable competitive advantages. The core of the volume is connecting data analytics and artificial intelligence, risk management and digitalization to create strategic intelligence as the capacity of adaptation that organizations need to compete and to succeed. Strategic intelligence is a symbiotic work of artificial intelligence, business intelligence and competitive intelligence. Strategic risk is represented by the probability of having variations in the performance results of the organizations that can limit their capacity to maintain sustainable

competitive advantages. There is an emphasis in the book about the conversion of models that support data analytics into actions to mitigate strategic risk based on digital transformation. This book reviews the steps that organizations have taken in using technology that connects the data analytics modeling process and digital operations, such as the shift from the use of statistical learning and machine learning for data analytics to the improvement and use of new technologies. The digitalization process is a potential opportunity for organizations however the results are not necessarily good for everyone. Hence, organizations implement strategic risk control in cloud computing, blockchain, artificial intelligence and create digital networks that are connected internally and externally to deal with internal and external customers, with suppliers and buyers, and with competitors and substitutes. The new risks appear once new knowledge emerges and is in use, but at the same time the new knowledge supports the initiatives to deal with risks arising from novel ways of competing and collaborating.

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supply chain risk intelligence: 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.

supply chain risk intelligence: Digital Resilience, Cybersecurity and Supply Chains Tarnveer Singh, 2025-04-18 In the digital era, the pace of technological advancement is unprecedented, and the interconnectivity of systems and processes has reached unprecedented levels. While this interconnectivity has brought about numerous benefits, it has also introduced new risks and vulnerabilities that can potentially disrupt operations, compromise data integrity, and

threaten business continuity. In today's rapidly evolving digital landscape, organisations must prioritise resilience to thrive. Digital resilience encompasses the ability to adapt, recover, and maintain operations in the face of cyber threats, operational disruptions, and supply chain challenges. As we navigate the complexities of the digital age, cultivating resilience is paramount to safeguarding our digital assets, ensuring business continuity, and fostering long-term success. Digital Resilience, Cybersecurity and Supply Chains considers the intricacies of digital resilience, its various facets, including cyber resilience, operational resilience, and supply chain resilience. Executives and business students need to understand the key challenges organisations face in building resilience and provide actionable strategies, tools, and technologies to enhance our digital resilience capabilities. This book examines real-world case studies of organisations that have successfully navigated the complexities of the digital age, providing inspiration for readers' own resilience journeys.

supply chain risk intelligence: Sustainability Management in the Oil and Gas Industry Joshua Yindenaba Abor, Amin Karimu, 2023-06-07 The oil and gas industry is a complex sector with significant reach in terms of providing the energy needs of the global economy and the security, environmental and development consequences thereof. In particular, the sector is extremely important for the economic growth of emerging markets and developing countries. Furthermore, the life span of oil and gas resources is finite, with high health and safety risks and substantial environmental costs that require careful management and sustainability practices to ensure optimal extraction and utilisation of these resources. This book examines the challenges and opportunities in the oil and gas industry, in the context of emerging markets and developing economies. It provides comprehensive coverage of the management and sustainability practices of the sector, the environmental impact and sustainability of resources as well as the businesses that operate in the sector across the entire value chain. It addresses the current discourse on topics such as the Sustainable Development Goals, the Green Economy, the Paris Agreement and Glasgow Climate Pact and concludes with a chapter on the future of the oil and gas industry. The discussions around energy and energy transitions in particular continue to gain momentum and the book provides a wide-reaching and up-to-date overview of the industry. The book introduces readers to the concepts and formal models of analysis in the oil and gas sector and will serve as a useful resource for students, scholars and researchers in operations, marketing, procurement and supply chain management, project management, health and safety management, environmental economics, natural resource economics, development finance, and development studies. Researchers and practitioners working in these areas will also find the book a useful reference material.

supply chain risk intelligence: United States Code United States, 2013 The United States Code is the official codification of the general and permanent laws of the United States of America. The Code was first published in 1926, and a new edition of the code has been published every six years since 1934. The 2012 edition of the Code incorporates laws enacted through the One Hundred Twelfth Congress, Second Session, the last of which was signed by the President on January 15, 2013. It does not include laws of the One Hundred Thirteenth Congress, First Session, enacted between January 2, 2013, the date it convened, and January 15, 2013. By statutory authority this edition may be cited U.S.C. 2012 ed. As adopted in 1926, the Code established *prima facie* the general and permanent laws of the United States. The underlying statutes reprinted in the Code remained in effect and controlled over the Code in case of any discrepancy. In 1947, Congress began enacting individual titles of the Code into positive law. When a title is enacted into positive law, the underlying statutes are repealed and the title then becomes legal evidence of the law. Currently, 26 of the 51 titles in the Code have been so enacted. These are identified in the table of titles near the beginning of each volume. The Law Revision Counsel of the House of Representatives continues to prepare legislation pursuant to 2 U.S.C. 285b to enact the remainder of the Code, on a title-by-title basis, into positive law. The 2012 edition of the Code was prepared and published under the supervision of Ralph V. Seep, Law Revision Counsel. Grateful acknowledgment is made of the contributions by all who helped in this work, particularly the staffs of the Office of the Law Revision

Counsel and the Government Printing Office--Preface.

supply chain risk intelligence: United States Code 2012 Edition Supplement IV ,

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Supply Market Intelligence: A Managerial Handbook for Building Sourcing Strategies begins by defining supply market intelligence and discussing opportunities, the establishment of a project team, and conducting an internal business intelligence assessment. The book then examines the development of business and market intelligence, supplier evaluations, and sourcing strategies. It also explores how to execute a sourcing strategy, manage a strategic supplier relationship, and redesign an organization for effective supply-chain intelligence and strategic sourcing. This volume offers a benchmarking framework covering all facets of supply-chain management, and includes best practices and case studies of world-class companies.

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supply chain risk intelligence: Handbook of Research on Artificial Intelligence in Government Practices and Processes Saura, Jose Ramon, Debasa, Felipe, 2022-03-18 In today's global culture where the internet has established itself as a main tool of communication, the global system of economy and regulations, as well as data and decisions based on data analysis, have become essential for public actors and institutions. Governments need to be updated and use the latest technologies to understand what society's demands are, and user behavioral data, which can be pulled by intelligent applications, can offer tremendous insights into this. The Handbook of Research on Artificial Intelligence in Government Practices and Processes identifies definitional perspectives of behavioral data science and what its use by governments means for automation, predictability, and risks to privacy and free decision making in society. Many governments can train their algorithms to work with machine learning, leading to the capacity to interfere in the behavior of society and potentially achieve a change in societal behavior without society itself even being aware of it. As such, the use of artificial intelligence by governments has raised concerns about privacy and personal security issues. Covering topics such as digital democracy, data extraction techniques, and political communications, this book is an essential resource for data analysts, politicians, journalists, public figures, executives, researchers, data specialists, communication specialists, digital marketers, and academicians.

supply chain risk intelligence: Cyber Security Impact on Digitalization and Business Intelligence Haitham M. Alzoubi, Muhammad Turki Alshurideh, Taher M. Ghazal, 2024-01-03 This book takes a unique approach by exploring the connection between cybersecurity, digitalization, and business intelligence. In today's digital landscape, cybersecurity is a crucial aspect of business operations. Meanwhile, organizations continue to leverage digital technologies for their day-to-day operations. They must be aware of the risks associated with cyber-attacks and implement robust cybersecurity measures to protect their assets. It provides practical insights and solutions to help businesses better understand the impact of cybersecurity on their digitalization and business intelligence strategies. It provides practical insights and solutions for implementing cybersecurity measures in organizations and covers a wide range of topics, including threat intelligence, risk management, compliance, cloud security, and IoT security. The book takes a holistic approach and explores the intersection of cybersecurity, digitalization, and business intelligence and examines the possible challenges and opportunities.

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Global Joint Conference on Industrial Engineering and Its Application Areas (GJCIE), held virtually on October 30–31, 2021, from Istanbul Technical University. Continuing the tradition of previous volumes, it highlights recent developments of industrial engineering at the purpose of using and managing digital and intelligent technologies for application to a wide range of field, including manufacturing, healthcare, e-commerce and mobility.

supply chain risk intelligence: Artificial Intelligence and Industrial Applications Tawfik Masrour, Anass Cherrafi, Ibtissam El Hassani, 2020-09-01 This book gathers the refereed proceedings of the Artificial Intelligence and Industrial Applications (A2IA'2020), the first installment of an annual international conference organized by the ENSAM-Meknes at Moulay Ismail University, Morocco. The 30 papers presented here were carefully reviewed and selected from 141 submissions by an international scientific committee. They address various aspects of artificial intelligence such as smart manufacturing, smart maintenance, smart supply chain management, supervised learning, unsupervised learning, reinforcement learning, graph-based and semi-supervised learning, neural networks, deep learning, planning and optimization, and other AI applications. The book is intended for AI experts, offering them a valuable overview of the status quo and a global outlook for the future, with many new and innovative ideas and recent important developments in AI applications, both of a foundational and practical nature. It will also appeal to non-experts who are curious about this timely and important subject.

supply chain risk intelligence: Proceedings of the 2023 2nd International Conference on Artificial Intelligence, Internet and Digital Economy (ICAID 2023) K. Hemachandran, Raja Sarath Kumar Boddu, Waseem Alhasan, 2023-09-26 This is an open access book. With the continuous upgrading of network information technology, especially the combination of Internet - cloud computing - blockchain - Internet of things and other information technologies with social and economic activities, through the improvement of artificial intelligence, Internet and big data with high quality and fast processing efficiency, the economic form is transformed from industrial economy to information economy. This will greatly reduce social transaction costs, improve the efficiency of resource optimization, increase the added value of products, enterprises and industries, and promote the rapid development of social productivity. 2023 2nd International Conference on Artificial Intelligence, the Internet and the Digital Economy (ICAID 2023) will continue to focus on the latest research on Artificial intelligence, the Internet and the Digital Economy, and expand the research on technology and application of the integrated development of Digital Economy and Artificial Intelligence as the theme. The aim is to gather experts, scholars, researchers and related practitioners from around the world to share research results, discuss hot issues, and provide participants with cutting-edge technology information so that they can keep abreast of industry developments, the latest technologies and broaden their research horizons. The conference was held in Beijing, China on April 21-23, 2023. All experts and scholars are welcome to attend.

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supply chain risk intelligence: Artificial Intelligence, Medical Engineering and Education Z.B. Hu, Qingying Zhang, Matthew He, Felix Yanovsky, 2024-02-15 Artificial Intelligence

(AI) is a rapidly developing field of computer science which now plays an increasingly important role in many disciplines. A catalyst for significant change, research into AI is of particular importance in fields such as medicine and education, and as such has become an area to watch for many people worldwide. This book presents the proceedings of AIMEE 2023, the 7th International Conference on Artificial Intelligence, Medical Engineering and Education, held on 9 and 10 November 2023 in Guangzhou, China. The conference brought together top international researchers from around the world to exchange research results and address open issues in AI, medical engineering and education. A total of 238 submissions were received for AIMEE 2023, of which 89 papers were selected for presentation and publication after a rigorous international peer review process. The book is divided into 3 sections, covering artificial intelligence and scientific methodology; systems engineering and analysis: concepts, methods, and applications; and education reform and innovation. Presenting papers which explore and discuss many novel concepts and methodologies contributing to the rapid evolution of artificial intelligence and its applications, the book will be of interest to all those working in the relevant fields.

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