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Value-Addition in Food Products and Processing Through Enzyme Technology Supply Chain Optimization, Design, and Management: Advances and Intelligent Methods

This book constitutes the refereed proceedings of the 11th International Conference on Parallel Problem Solving from Nature - PPSN XI, held in Krak ó w, Poland, in September 2010. The 131 revised full papers were carefully reviewed and selected from 232 submissions. The conference covers a wide range of topics, from evolutionary computation to swarm intelligence, from bio-inspired computing to real world applications. Machine learning and mathematical games supported by evolutionary algorithms as well as memetic, agent-oriented systems are also represented.

Singapore Electronics Industry Directory IGI Global

Cloud computing has experienced explosive growth and is expected to continue to rise in popularity as new services and applications become available. As with any new technology, security issues continue to be a concern, and developing effective methods to protect sensitive information and data on the cloud is imperative. Cloud Security: Concepts, Methodologies, Tools, and Applications explores the difficulties and challenges of securing user data and information on cloud platforms. It also examines the current approaches to cloud-based technologies and assesses the possibilities for future advancements in this field. Highlighting a range of topics such as cloud forensics, information privacy, and standardization and security in the cloud, this multi-volume book is ideally designed for IT specialists, web designers, computer engineers, software developers, academicians, researchers, and graduate-level students interested in cloud computing concepts and security. Global Applications of Pervasive and Ubiquitous Computing IGI Global

One of the major challenges for European governments is to solve the dilemma of increasing the security and reducing fraud in international trade, while at the same time reducing the administrative burden for commercial as well as public administration organisations. To address these conflicting demands, the ITAIDE project has developed a large set of innovative IT-related tools and methods that enable companies to be better in control of their business operations. These tools and methods have been integrated in the ITAIDE Information Infrastructure (I3) framework. By using the I3 framework, companies are better positioned to apply for the Trusted Trader status, and enjoy trade facilitation benefits such as simplified customs procedures and fewer inspections of their goods. Hence, the I3 framework can contribute to making global supply chains faster, cheaper, and more secure. The I3 framework has been tested and validated in five real-life Living Labs, spanning four different sectors of industry, and conducted in five different EU countries. National Tax & Customs organizations from various European countries have actively participated in the Living Labs. The United Nations CEFACT group, experts from the World Customs Organization and representatives of key industry associations have also provided valuable feedback and ideas for the Living Labs and the project in general. www.itaide.org

Inventory and Production Management in Supply Chains Oxford University Press

This book focuses on the latest approaches and methods in fundamental mathematics and mechanics, and discusses the practical application of abstract mathematical approaches, such as differential geometry, and differential and difference equations in solid mechanics, hydrodynamics, aerodynamics, optimization, decision-making theory and control theory. Featuring selected contributions to the open seminar series of Lomonosov Moscow State University and Igor Sikorsky Kyiv Polytechnic Institute by mathematicians from China, Germany, France, Italy, Spain, Russia, Ukraine and the USA, the book will appeal to mathematicians and engineers working at the interface of these fields

Customer-Oriented Global Supply Chains: Concepts for Effective Management Elsevier

Containing case studies and research findings, this book deals with methods and tools suitable for designing, managing, and controlling processes within the supply chain. The authors are leading experts within the international community in the field of production management.

Dynamic Supply Chain Alignment CRC Press

"This book is about achieving organizational synergy in an era of business which is rapidly moving towards electronic collaboration, providing clear definition of the next phase of this collaborative evolution of the Internet"--Provided by publisher.

Supply Chain Optimization, Design, and Management: Advances and Intelligent Methods John Wiley & Sons

Includes the most important issues, concepts, trends and technologies in the field of global information technology management, covering topics such as the technical platform for global IS applications, information systems projects spanning cultures, managing information technology in corporations, and global information technology systems and socioeconomic development in developing countries.

Supply Chain Design and Management for Emerging Markets Gower Publishing, Ltd.

This book examines the potential to deploy low-cost, three-dimensional printers known as RepRaps in developing countries to fabricate surgical instruments and medical supplies to combat the “global surgical burden of disease.” Approximately two billion people in developing countries around the world lack access to essential surgical services, resulting in the avoidable deaths of millions of individuals each year. A fundamental barrier that inhibits access to surgical care in these locations is the lack of basic surgical instruments and supplies in healthcare facilities. RepRap printers are highly versatile 3D printers assembled from basic, domestically sourced materials that can fabricate low-cost surgical instruments on-site, ultimately enhancing the interventional capacity of healthcare facilities to treat patients. Rather than focusing on one specific field of interest, this book takes an integrative approach that incorporates topics and methods from multiple disciplines ranging from global health and development economics to materials science and applied engineering. These topics include the feasibility of using bio-based plastics to fabricate surgical instruments via 3D printing sustainably, the application of “frugal innovation and engineering” in resource-poor settings, and analyses related to the social returns on investment, barriers to entry, and current and future medical device supply-chain paradigms. In taking a multi-disciplinary approach, the reader can gain a holistic understanding of the multiple facets related to implementing medical device innovations in developing countries.

3D Printing and Bio-Based Materials in Global Health MDPI

Recent news events related to quality in global supply chains have called attention to the need for more research on supply chains that operate in a global context. Indeed, it would be difficult to find a supply chain that does not cut across national boundaries at some point. The presence of global supply chains introduces a number of new management challenges. Managing Global Supply Chain Relationships: Operations, Strategies and Practices focuses on issues related to relationships among members of global supply chains. This comprehensive work addresses three important aspects of global supply chain relationships: supply chain integration and collaboration; outsourcing and offshoring of production; and recent growth in supplier networks.

Accelerating Global Supply Chains with IT-Innovation IGI Global

Many fields are beginning to implement developing practices that prove to be more efficient and environmentally friendly compared to traditional practices. This holds true for the realm of business, as organizations are redesigning their operations through the incorporation of sustainable methods. Research is needed on the specific techniques companies are using to promote efficiency and improved effectiveness using sustainability. Handbook of Research on Sustainable Supply Chain Management for the Global Economy is an essential reference source that discusses the incorporation of sustainability in various facets of business management. Featuring research on topics such as disruptive logistics, production planning, and renewable energy sources, this book is ideally designed for researchers, practitioners, students, managers, policymakers, academicians, economists, scholars, and educators seeking coverage on sustainable practices in supply chains to ensure a cleaner environment.

Parallel Problem Solving from Nature, PPSN XI IGI Global

The central question for this year's report is how governance systems can evolve to better address the systemic risks of the future. In today's crowded and interconnected world, disaster impacts increasingly cascade across geographies and sectors, as the COVID-19 pandemic and climate change are rapidly making clear. Despite progress, risk creation is outstripping risk reduction. Disasters, economic loss, and the underlying vulnerabilities that drive risk, such as poverty and inequality, are increasing just as ecosystems and biospheres are at risk of collapse. The report highlights that a) the climate emergency and the systemic impacts of the COVID-19 pandemic point to a new reality; b) understanding and reducing risk in a world of uncertainty is fundamental to achieving genuinely sustainable development; and c) the best defense against future shocks is to transform systems now, to build resilience by addressing climate change, and to reduce the vulnerability, exposure, and inequality that drive disasters.

Handbook of Research on Global Information Technology Management in the Digital Economy IGI Global

The global sustainability challenge is urgent, tremendous and increasing. From an ecological perspective, the current worldwide resource footprint requires approximately 1.5 planets to sustain existing life, and with current usage would require two planets by 2030. The social impact of ever-growing resource use disproportionately affects the world’s poor – the 3 billion people living on less than \$2.50 a day, as they struggle to acquire what is needed to survive. The serious ecological and social challenges we face in trying to establish global sustainable supply chains must not be underestimated, yet so far research has largely ignored the social dimension in favour of the environmental and economic. So how can we develop business strategies that move away from a primary economic focus and give equal weight to people, planet and profit? How can we create sustainable supply chains that take a true triple-bottom-line approach?Implementing Triple Bottom Line Sustainability into Global Supply Chains features innovative research, highlighting new cases, approaches and concepts in how to successfully implement sustainability – covering economic, ecological and social dimensions – into global supply chains. The four parts cover the rationale for sustainable global supply chains, key enablers, case studies showing clear implementation steps, and directions for future research and development.This book is a must-read for any academic researching in sustainable supply chain management, procurement or business strategy, and for business leaders seeking cases that will inform a critical step forward for CSR programmes.

Enterprise Integration and Information Architecture Routledge

This book covers the latest development of bioprocess technology including theoretical, numerical, and experimental approaches in biotechnology as well as green technology that bridge conventional practices and Industry 4.0. Bioprocessing is one of the key factors in several emerging industries of biofuels, used in the production of biogas, bioethanol, and biodiesel; industrial enzymes; waste management through biotechnology; new vaccines; and many more. It is hoped that the novel bioprocess and green biotechnologies presented in this book are useful in assisting the global community in working towards fulfilling the Sustainable Development Goals (SDG) of the United Nations. **Acronyms, Initialisms & Abbreviations Dictionary** Springer Science & Business Media

Best Practices in Green Supply Chain Management uses present case studies from the Indian and Mexican manufacturing industries to offer new insights on the challenges of integrating environmental awareness into supply chain management operations in developing countries.

Contemporary Approaches and Methods in Fundamental Mathematics and Mechanics CRC Press

"This book provides insights and supports executives, middle managers and practitioners concerned with the management of supply chain

with expertise, knowledge, information and organizational management development in different types of industries"--Provided by publisher.

Global Production Management Springer

As technology continues to play a vital role in our everyday lives, advancements in human-computer interaction studies embrace ubiquitous computing as a tool for information processing to evolve into the human environment. Global Applications of Pervasive and Ubiquitous Computing provides the global applications and efforts in building and applying pervasive and ubiquitous computer technology. This book provides an essential collection of research on information technology for educators, researchers, and practitioners aiming to advance the practice and understanding of pervasive and ubiquitous applications.

Managing Global Supply Chain Relationships: Operations, Strategies and Practices Springer

"This multi-volume reference examines critical issues and emerging trends in global business, with topics ranging from managing new information technology in global business operations to ethics and communication strategies"--Provided by publisher.

Global Business: Concepts, Methodologies, Tools and Applications Academic Press

Blockchain and Supply Chain Management combines discussions of blockchain and supply chains, linking technologies such as artificial intelligence, Internet of Things, satellite imagery, and machine vision. The book examines blockchain’s basic concepts, relevant theories, and its roles in meeting key supply chain objectives. The book addresses problems related to inefficiency, opacity, and fraud, helping the digitization process, simplifying the value creation process, and facilitating collaboration. The book is balanced between blockchain and supply chain application and theory, covering the latest technological, organizational and regulatory developments in blockchain from a supply chain perspective. The book discusses the opportunities, barriers, and enablers of blockchain in supply chain policy, along with legal and ethical implications. Supply chain management faces massive disruption with the dynamic changes in global trade, the impact of Covid-19, and technological innovation. Entire industries are also being transformed by blockchain, with some of the most promising applications in supply chain management. Provides theoretical and practical insights into both blockchain and supply chains Features numerous illustrative case studies, boxes, tables, and figures Examines blockchain's impacts on supply chains in four key industries: Food and beverage, healthcare, pharmaceuticals, and finance

Reverse Acronyms, Initialisms, & Abbreviations Dictionary Taylor & Francis

This book discusses the concepts of volatility, uncertainty, complexity, and ambiguity (VUCA) that are the core of various paradigms used in strategic management to understand competitive advantage as well as flexibility in organizational boundaries. It serves as a valuable reference resource in the area of VUCA markets. An increase in the levels and types of uncertainty has important implications potentially for the durability of a company’s advantages, the way firms learn and adapt, approaches for managing innovation and knowledge, and the attractiveness of different strategies and organizational models. In today’s world, strategic flexibility in VUCA is essential for business leaders to sustain market advantage and attain a clear vision amid the chaos. Business leaders who stay focused and are aware of external volatility as the prevalent characteristic are successful, while those who are not flexible in this VUCA world and lock themselves into fixed positions lose out. The book includes empirical and conceptual research papers along with case studies and models discussing strategies for emerging markets in volatile and uncertain environments. It also covers a variety of issues, including innovation, people and processes, financial management, and leadership and strategies in VUCA markets. Apart from research fraternity and academia, the contents of the book will be useful for practitioners as well as industry watchers.

Geographies of Food and Power IGI Global

COVID-19 and other public health threats have contributed to more than six million deaths globally in a short amount of time. As such, there is an urgent need to respond to these threats in a way that improves global health and wellbeing. Written by a diverse group of exemplary scientists, the thirteen chapters in this volume provide unique, comprehensive, and science-based approaches to respond to macro-structural, human process, and micro issues affecting public health threats.