

Enterprise Networks And Logistics For Agile Manufacturing

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Formation mechanisms for the sustainable economic development of industries, facilities and enterprises - Khakhonova, N.N.

2013-07-23

This collection includes materials of the international scientific conference "Formation mechanisms for the sustainable economic development of industries, facilities, businesses," held in Munich, 8-10 July 2013. The main objective of the conference - the development of the community of scholars and practitioners in the field of economics and management. The conference brought together scholars and practitioners from Russia, Belarus, Latvia, Kazakhstan. The international scientific conference was supported by the Publishing House of the International Centre of research projects, editors of peer-reviewed scientific journals "Modern control technology", "Regional Economics and Management: Electronic scientific journal", "Economic growth and development», «Social & economic innovations».

Innovative Solutions for Implementing Global Supply Chains in Emerging Markets - Dwivedi, Ashish 2016-01-28

Advancements in the field of information technology have transformed the way businesses interact with each other and their customers. Businesses now require customized products and services to reflect their constantly changing environment, yet this results in cutting-edge products with relatively short lifecycles. Innovative Solutions for Implementing Global Supply Chains in Emerging Markets addresses the roles of knowledge management and information technology within emerging markets. This forward-thinking title explores the current trends in supply chain management, knowledge acquisition and transfer mechanisms among supply chain partners, and knowledge management paradigms. This book is an invaluable resource for researchers, business professionals and students, business analysts, and marketing professionals.

Collaborative Networks of Cognitive Systems - Luis M. Camarinha-Matos 2018-09-06

This book constitutes the refereed proceedings of the 19th IFIP WG 5.5 Working Conference on Virtual Enterprises, PRO-VE 2018, held in Cardiff, UK, in September 2018. The 57 revised full papers were carefully reviewed and selected from 143 submissions. They provide a comprehensive overview of identified challenges and recent advances in various collaborative network (CN) domains and their applications, with a strong focus on the following areas: blockchain in collaborative networks, industry transformation and innovation, semantics in networks of cognitive systems, cognitive systems for resilience management, collaborative energy services in smart cities, cognitive systems in agribusiness, building information modeling, industry 4.0 support frameworks, health and social welfare services, risk, privacy and security, collaboration platform issues, sensing, smart and sustainable enterprises, information systems integration, dynamic logistics networks, collaborative business processes, value creation in networks, users and organizations profiling, and collaborative business strategies.

Contemporary Operations and Logistics - Peter Wells 2019-04-23

This edited collection collates the most up-to-date and important research within the area of operations and logistics management. Boasting the combined expertise of one of the largest logistics and operations management academic teams in Europe, it provides both depth and diversity in a balanced portfolio. The first two sections are concerned with key contemporary issues in the subject area, providing a current and up-to-date overview of the field. Section three presents a selection of important cross-cutting themes that impinge upon and inform teaching, research and practice, while the final section includes a celebration of research highlights and showcases cutting-edge applications from leaders in the field. Invaluable to students, researchers and academics alike, this book is compulsory reading for those active within operations and logistics research.

Technological Innovation for Collective Awareness Systems - Luis M. Camarinha-Matos 2014-04-02

This book constitutes the refereed proceedings of the 5th IFIP WG 5.5/SOCOLNET Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2014, held in Costa de Caparica, Portugal, in April 2014. The 68 revised full papers were carefully reviewed and selected from numerous submissions. They cover a wide spectrum of topics ranging from collaborative enterprise networks to microelectronics. The papers are organized in the following topical sections: collaborative networks; computational systems; self-organizing manufacturing systems; monitoring and supervision systems; advances in manufacturing; human-computer interfaces; robotics and mechatronics, Petri nets; multi-energy systems; monitoring and control in energy; modelling and simulation in energy; optimization issues in energy; operation issues in energy; power conversion; telecommunications; electronics: design; electronics: RF applications; and electronics: devices.

Collaborative Networks for a Sustainable World - Luis M. Camarinha-Matos 2010-10-02

Collaborative Networks for a Sustainable World Aiming to reach a sustainable world calls for a wider collaboration among multiple stakeholders from different origins, as the changes needed for sustainability exceed the capacity and capability of any individual actor. In recent years there has been a growing awareness both in the political sphere and in civil society including the business sectors, on the importance of sustainability. Therefore, this is an important and timely research issue, not only in terms of systems design but also as an effort to borrow and integrate contributions from different disciplines when designing and/or engineering those systems. The discipline of collaborative networks especially, which has already emerged in many application sectors, shall play a key role in the implementation of effective sustainability strategies. PRO-VE 2010 focused on sharing knowledge and experiences as well as identifying directions for further research and development in this area. The conference - dressed models, infrastructures, support tools, and governance principles developed for collaborative networks, as important resources to support multi-stakeholder sustainable developments. Furthermore, the challenges of this theme open new research directions for CNs. PRO-VE 2010 held in St.

Supply Chain and Logistics Management: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2019-11-01

Business practices are constantly evolving in order to meet growing customer demands. Evaluating the role of logistics and supply chain management skills or applications is necessary for the success of any organization or business. As market competition becomes more aggressive, it is crucial to evaluate ways in which a business can maintain a strategic edge over competitors. Supply Chain and Logistics Management: Concepts, Methodologies, Tools, and Applications is a vital reference source that centers on the effective management of risk factors and the implementation of the latest supply management strategies. It also explores the field of digital supply chain optimization and business transformation. Highlighting a range of topics such as inventory management, competitive advantage, and transport management, this multi-volume book is ideally designed for business managers, supply chain managers, business professionals, academicians, researchers, and upper-level students in the field of supply chain management, operations management, logistics, and operations research.

Collaborative Networks in the Internet of Services - Luis M. Camarinha-Matos 2012-09-26

This book constitutes the refereed proceedings of the 13th IFIP WG 5.5 Working Conference on Virtual Enterprises, PRO-VE 2012, held in Bournemouth, UK, in October 2012. The 61 revised papers presented were carefully selected from numerous submissions. They provide a comprehensive overview of identified challenges and recent advances in

various collaborative network (CN) domains and their applications with a particular focus on the Internet of Services. The papers are organized in topical sections on service enhanced products; service composition; collaborative ecosystems; platform requirements; cloud-based support; collaborative business frameworks; service design; e-governance; collaboration in traditional sectors; collaboration motivators; virtual organization breeding environments; collaboration spaces; designing collaborative networks; cost, benefits and performance; identification of patterns; co-innovation and competitiveness; collaborative behavior models; and risks, governance, trust.

16th European Conference on Innovation and Entrepreneurship Vol 2 - Dr. Florinda Matos 2021-09-16

Encyclopedia of E-Commerce, E-Government, and Mobile

Commerce - Khosrow-Pour, D.B.A., Mehdi 2006-03-31

[Administration (référence électronique)].

Laser Scanner Technology - J. Apolinar Munoz Rodriguez 2012-03-28

Laser scanning technology plays an important role in the science and engineering arena. The aim of the scanning is usually to create a digital version of the object surface. Multiple scanning is sometimes performed via multiple cameras to obtain all slides of the scene under study.

Usually, optical tests are used to elucidate the power of laser scanning technology in the modern industry and in the research laboratories. This book describes the recent contributions reported by laser scanning technology in different areas around the world. The main topics of laser scanning described in this volume include full body scanning, traffic management, 3D survey process, bridge monitoring, tracking of scanning, human sensing, three-dimensional modelling, glacier monitoring and digitizing heritage monuments.

The Unity of Science and Economics - Jing Chen 2015-11-06

This book presents a new economic theory developed from physical and biological principles. It explains how technology, social systems and economic values are intimately related to resources. Many people have recognized that mainstream (neoclassical) economic theories are not consistent with physical laws and often not consistent with empirical patterns, but most feel that economic activities are too complex to be described by a simple and coherent mathematical theory. While social systems are indeed complex, all life systems, including social systems, satisfy two principles. First, all systems need to extract resources from the external environment to compensate for their consumption. Second, for a system to be viable, the amount of resource extraction has to be no less than the level of consumption. From these two principles, we derive a quantitative theory of major factors in economic activities, such as fixed cost, variable cost, discount rate, uncertainty and duration. The mathematical theory enables us to systematically measure the effectiveness of different policies and institutional structures at varying levels of resource abundance and cost. The theory presented in this book shows that there do not exist universally optimal policies or institutional structures. Instead, the impacts of different policies or social structures have to be measured within the context of existing levels of resource abundance. As the physical costs of extracting resources rise steadily, many policy assumptions adopted in mainstream economic theories, and workable in times of cheap and abundant energy supplies and other resources, need to be reconsidered. In this rapidly changing world, the theory presented here provides a solid foundation for examining the long-term impacts of today's policy decisions.

Optimization, Variational Analysis and Applications - Vivek Laha 2021-07-27

This book includes selected papers presented at the Indo-French Seminar on Optimization, Variational Analysis and Applications (IFSOVAA-2020), held at the Department of Mathematics, Institute of Science, Banaras Hindu University, Varanasi, India, from 2-4 February 2020. The book discusses current optimization problems and their solutions by using the powerful tool of variational analysis. Topics covered in this volume include set optimization, multiobjective optimization, mathematical programs with complementary, equilibrium, vanishing and switching constraints, copositive optimization, interval-valued optimization, sequential quadratic programming, bound-constrained optimization, variational inequalities, and more. Several applications in different branches of applied mathematics, engineering, economics, finance, and medical sciences have been included. Each chapter not only provides a detailed survey of the topic but also builds systematic theories and suitable algorithms to deduce the most recent findings in literature. This volume appeals to graduate students as well as researchers and practitioners in pure and applied mathematics and

related fields that make use of variational analysis in solving optimization problems.

Advances in Manufacturing Technology XV - Tim O'Hagan 2001-11-28

An overview of the latest advances in manufacturing. In manufacturing, staying up to date with the newest technology has a direct impact on the bottom line. To this end, *Advances in Manufacturing Technology XV* provides an invaluable resource: papers presented at the 15th National Conference on Manufacturing Research, highlighting the latest findings and ongoing work of the world's leading labs. Showcasing innovation in efficiency, speed, safety, capability, and much more, these works represent the forefront of manufacturing today.

Lean and Green Manufacturing - Kaliyan Mathiyazhagan 2021-10-16

This book provides a stage-by-stage integration of lean and green manufacturing paradigms to achieve environmental and economic benefits. The book includes chapters on conceptual development for incorporating the lean and green paradigm, and methods, tools and techniques for developing and integrating lean manufacturing. Several case studies which demonstrate the benefits of integrating lean and green manufacturing techniques are also covered here. The contents of this book are expected to support researchers and practitioners in the implementation of integrated lean and green manufacturing technologies.

Advances in Production Management Systems. Competitive Manufacturing for Innovative Products and Services - Christos

Emmanouilidis 2013-08-13

The two volumes IFIP AICT 397 and 398 constitute the thoroughly refereed post-conference proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2012, held in Rhodes, Greece, in September 2012. The 182 revised full papers were carefully reviewed and selected for inclusion in the two volumes. They are organized in 6 parts: sustainability; design, manufacturing and production management; human factors, learning and innovation; ICT and emerging technologies in production management; product and asset lifecycle management; and services, supply chains and operations.

Innovation Management and New Product Development for Engineers, Volume I - Rob Dekkers 2018-08-31

Whereas innovation has become part of daily language, in practice, realizing new product and new service development is a complex and daunting task for engineers, design engineering managers, managers, and those involved in other functions in organizations. Most books on innovation management approach this topic from a managerial or economic perspective; this text takes the actual design and engineering processes as starting point. To this purpose, it relates product design and engineering processes and their management to sources of innovation, collaboration with suppliers, and knowledge providers (for example, inventors and universities), and users. The managerial aspects get ample attention as well as the socioeconomic aspects in the context of product design and engineering. For this wide range of topics, the book provides both theoretical underpinning and practical guidance. Readers and students will benefit from this book by not only understanding the key mechanisms for innovation but also by the practical guidance it offers. The author uses diagrams, models, methods, and steps to guide readers to a better understanding of innovation projects. This practical approach and the link to theory make the book valuable to practitioners as well as engineering students.

Agile Manufacturing Systems - K Hans Raj 2011-12-17

Agility has become very important for the industries today as the lifetimes of the products are continuously shrinking. This book provides an excellent opportunity for updating understanding of agile methods from the design, manufacturing and business process perspectives, whether one is an industrial practitioner, academic researcher engineer or business graduate student. This volume is a compilation of various important aspects of agility consisting of systemic considerations in manufacturing, agile software systems, agile business systems, agile operations research, flexible manufacturing systems, advanced manufacturing systems with improved materials and mechanical behavior of products, agile aspects of design, clean and green manufacturing systems, environment, agile defence systems.

Agile Network Businesses - Vivek Kale 2017-07-20

"A highly readable and yet comprehensive book on network businesses that have become governable with the advent of cloud and big data computing. Vivek Kale is a master of simplifying the complex world of network theory and its relevance to business." —Jagdish N. Sheth, Charles H. Kellstadt Professor of Marketing, Emory University Agile

Network Businesses: Collaboration, Coordination, and Competitive Advantage reflects the shift from traditional networks to virtual and agile networks that enable businesses to operate dynamically, thereby representing markets more closely. This book enables IT managers and business decision-makers to understand clearly what network businesses and enterprises are, what they can do for them, and how to realize them. Customers in geographically dispersed markets are demanding higher quality products in a greater variety, at lower cost, and in a shorter time. Thus, enterprises have moved from a few centralized and vertically integrated facilities to geographically dispersed networks of capabilities, competencies and resources, which are the core of network businesses. Enterprises are now constructing more fluid network businesses in which each member facility focuses on differentiation and relies increasingly on its partners, suppliers, and customers to provide the rest. Network businesses have emerged as an organizational paradigm for collaboration and coordination across loosely connected individual organizations. This pragmatic book: Introduces network solutions and distributed systems that are a first step towards enabling a network enterprise. It also gives a detailed description of networks and agent system that have paved the road to network enterprises. Describes the basics of service-oriented architecture (SOA), cloud computing, and big data that are essential to network enterprises. Details the distinguishing aspects of network enterprises, which include virtual enterprises, management of network enterprises, and collaborative network enterprises. Covers such major application areas as supply, manufacturing, e-business, platform, social and wireless sensor networks. Introduces decision networks in the context of supply chain networks This book reinterprets the traditional supply chain in terms of the flow of decisions, information, and materials, which leads to reconfiguring the traditional supply chain network into mutually separate decision networks (e.g., fourth-party logistics or 4PL), information networks (e.g., wireless sensor networks), and logistics networks (e.g., third-party logistics or 3PL).

Surviving Supply Chain Integration - National Research Council 2000-03-23

The managed flow of goods and information from raw material to final sale also known as a "supply chain" affects everything--from the U.S. gross domestic product to where you can buy your jeans. The nature of a company's supply chain has a significant effect on its success or failure--as in the success of Dell Computer's make-to-order system and the failure of General Motor's vertical integration during the 1998 United Auto Workers strike. Supply Chain Integration looks at this crucial component of business at a time when product design, manufacture, and delivery are changing radically and globally. This book explores the benefits of continuously improving the relationship between the firm, its suppliers, and its customers to ensure the highest added value. This book identifies the state-of-the-art developments that contribute to the success of vertical tiers of suppliers and relates these developments to the capabilities that small and medium-sized manufacturers must have to be viable participants in this system. Strategies for attaining these capabilities through manufacturing extension centers and other technical assistance providers at the national, state, and local level are suggested. This book identifies action steps for small and medium-sized manufacturers--the "seed corn" of business start-up and development--to improve supply chain management. The book examines supply chain models from consultant firms, universities, manufacturers, and associations. Topics include the roles of suppliers and other supply chain participants, the rise of outsourcing, the importance of information management, the natural tension between buyer and seller, sources of assistance to small and medium-sized firms, and a host of other issues. Supply Chain Integration will be of interest to industry policymakers, economists, researchers, business leaders, and forward-thinking executives.

Changes and Challenges in the Modern World Economy - Tomasz Rynarzewski 2016

The book was prepared by the academics and doctoral students of the Faculty of International Business and Economics of the Poznań University of Economics and Business to celebrate the 90th anniversary of the University and the 10th anniversary of the Faculty itself. The subject of this Volume reflects the variety of issues that are researched by academics from all departments of the Faculty. The rationale for publishing this Volume was to signal current work and research progress in the area of international economics, business and management. As the title of the Volume suggests, we need to anticipate changes and implement a new approach to face the challenges in the world economy

for it is transforming in an unprecedented way now, at a fast pace, and the global economic map is constantly redrawing. Papers published in this Volume are written by individual authors and workgroups. They are results of research conducted in departments and have been assigned to eight chapters discussing crucial aspects of the world economy. The deliberations are held on a micro- and macroeconomic level in both theoretical and empirical terms. We hope that the contents of individual papers will inspire both readers and authors themselves to make further studies, to carry out follow-up research, to network with one another in order to find answers to the most important problems of the world economy and international business.

Encyclopedia of Business Analytics and Optimization - Wang, John 2014-02-28

As the age of Big Data emerges, it becomes necessary to take the five dimensions of Big Data- volume, variety, velocity, volatility, and veracity- and focus these dimensions towards one critical emphasis - value. The Encyclopedia of Business Analytics and Optimization confronts the challenges of information retrieval in the age of Big Data by exploring recent advances in the areas of knowledge management, data visualization, interdisciplinary communication, and others. Through its critical approach and practical application, this book will be a must-have reference for any professional, leader, analyst, or manager interested in making the most of the knowledge resources at their disposal.

Forest Value Chain Optimization and Sustainability - Sophie D'Amours 2016-12-01

This book provides a global perspective on the various issues that the industry has to face as well as to provide some key global strategies that can help coping with those global challenges, such as collaboration, strategic value chain planning, and interdependency analyses. It presents literature reviews, strategic research orientations, assessment of some current key issues, and state-of-the-art methodologies.

Computer Aided Design and Manufacturing - Zhuming Bi 2020-02-04

Broad coverage of digital product creation, from design to manufacture and process optimization This book addresses the need to provide up-to-date coverage of current CAD/CAM usage and implementation. It covers, in one source, the entire design-to-manufacture process, reflecting the industry trend to further integrate CAD and CAM into a single, unified process. It also updates the computer aided design theory and methods in modern manufacturing systems and examines the most advanced computer-aided tools used in digital manufacturing. Computer Aided Design and Manufacturing consists of three parts. The first part on Computer Aided Design (CAD) offers the chapters on Geometric Modelling; Knowledge Based Engineering; Platforming Technology; Reverse Engineering; and Motion Simulation. The second part on Computer Aided Manufacturing (CAM) covers Group Technology and Cellular Manufacturing; Computer Aided Fixture Design; Computer Aided Manufacturing; Simulation of Manufacturing Processes; and Computer Aided Design of Tools, Dies and Molds (TDM). The final part includes the chapters on Digital Manufacturing; Additive Manufacturing; and Design for Sustainability. The book is also featured for being uniquely structured to classify and align engineering disciplines and computer aided technologies from the perspective of the design needs in whole product life cycles, utilizing a comprehensive Solidworks package (add-ins, toolbox, and library) to showcase the most critical functionalities of modern computer aided tools, and presenting real-world design projects and case studies so that readers can gain CAD and CAM problem-solving skills upon the CAD/CAM theory. Computer Aided Design and Manufacturing is an ideal textbook for undergraduate and graduate students in mechanical engineering, manufacturing engineering, and industrial engineering. It can also be used as a technical reference for researchers and engineers in mechanical and manufacturing engineering or computer-aided technologies.

Agile Manufacturing: The 21st Century Competitive Strategy - A. Gunasekaran 2001-01-25

Agile manufacturing is defined as the capability of surviving and prospering in a competitive environment of continuous and unpredictable change by reacting quickly and effectively to changing markets, driven by customer-designed products and services. Critical to successfully accomplishing AM are a few enabling technologies such as the standard for the exchange of products (STEP), concurrent engineering, virtual manufacturing, component-based hierarchical shop floor control system, information and communication infrastructure, etc. The scope of the book is to present the undergraduate and graduate students, senior managers and researchers in manufacturing systems design and management, industrial engineering and information technology with the

conceptual and theoretical basis for the design and implementation of AMS. Also, the book focuses on broad policy directives and plans of agile manufacturing that guide the monitoring and evaluating the manufacturing strategies and their performance. A problem solving approach is taken throughout the book, emphasizing the context of agile manufacturing and the complexities to be addressed.

Dispersed Manufacturing Networks - Rob Dekkers 2009-06-26

Dispersed Manufacturing Networks provides new perspectives of dispersed manufacturing systems from three points of view. The first is that offered by complex systems theory, particularly on how agents in these industrial networks interact and how that provides possibility for coordination. The book also elaborates on issues of coordination and planning, as well as examining new solutions and challenges for logistics problems and collaboration in engineering networks within the internationalisation perspective. The impact of globalization is discussed for both managerial decision-making and operational performance of supply chains. A strong emphasis is placed on the need for continuous decision-making with recognition of the fact that networks of loosely connected agents require different approaches. Both researchers and professionals will welcome Dispersed Manufacturing Networks. It is an informative guide for those researching and working across a range of fields.

The Practice of Enterprise Modeling - Janis Grabis 2013-11-01

This volume constitutes the proceedings of the 6th IFIP WG 8.1 Conference on the Practice of Enterprise Modeling held in November 2013 in Riga, Latvia. The focus of the PoEM conference series is on advances in the practice of enterprise modeling through a forum for sharing knowledge and experiences between the academic community and practitioners from industry and the public sector. The 19 papers accepted were carefully reviewed and selected from 80 submissions. They reflect different topics of enterprise modeling including quality of models, change management and transformation, approaches and tools for agility and flexibility, enterprise modeling and business processes, enterprise modeling and information systems and enterprise modeling cases. Additionally, one of the two keynotes is also included in this volume.

Advances in Sustainable and Competitive Manufacturing Systems -

Américo Azevedo 2013-06-25

The proceedings includes the set of revised papers from the 23rd International Conference on Flexible Automation and Intelligent Manufacturing (FAIM 2013). This conference aims to provide an international forum for the exchange of leading edge scientific knowledge and industrial experience regarding the development and integration of the various aspects of Flexible Automation and Intelligent Manufacturing Systems covering the complete life-cycle of a company's Products and Processes. Contents will include topics such as: Product, Process and Factory Integrated Design, Manufacturing Technology and Intelligent Systems, Manufacturing Operations Management and Optimization and Manufacturing Networks and MicroFactories.

A Stakeholder Approach to Managing Food - Adam Lindgreen 2016-08-05

This research anthology explores the concept of food production and supply, from farm gate to plate, bringing together contemporary thinking and research on local, national, and global issues from a stakeholder perspective. A Stakeholder Approach to Managing Food includes a number of sections to represent these challenges, opportunities, conflicts, and cohesions affecting relevant stakeholder groups within food production and supply and their reaction to, engagement with, and co-creation of the food environment. For some, local, national, and global interests may seem at odds. We are in an era of growing and pervasive multi-national corporations, and these corporations have significant influence at all levels. Rapidly growing economies such as China are a focus for the global brand, but is this a scenario of adaptation or homogenization of food? Alongside this trend toward national and global development in food, this volume presents the counter-reaction that is taking place (especially in developed countries) toward local speciality and culturally bound foods, with emphasis on the importance of the inter-connection of local communities and agri-food culture and economy. With an in-depth analysis of agricultural businesses, this book shows that the entrepreneurial spirit is alive and well in rural communities with often renewed and engaged connection with consumers and imaginative use of new media. This book will be of interest to students, researchers and policy-makers concerned with agriculture, food production and economics, cultural studies.

International Supply Chain Management and Collaboration

Practices - Wilson Adarme Jaimes 2011

Introduction to E-commerce - Zheng Qin 2010-06-30

Introduction to E-commerce discusses the foundations and key aspects of E-commerce while focusing on the latest developments in the E-commerce industry. Practical case studies offer a useful reference for dealing with various issues in E-commerce such as latest applications, management techniques, or psychological methods. Dr. Zheng Qin is currently Director of the E-Commerce Institute of Xi'an Jiaotong University.

Design and Manufacture for Sustainable Development 2004 - Tracy Bhamra 2004-10-29

Sustainable development is now becoming a matter that must be addressed at both strategic and operational level, whether driven by legislation, the 'greening of the marketplace', supply chain requirements, or the pressure of events associated with climate change. Design and Manufacture for Sustainable Development 2004 is an international volume including papers by distinguished authors for academia and industry. These international papers encompass the holistic study and interchange of ideas on the theory, practice, tools, and methodology for the entire product life cycle within the framework of sustainable development.

E-Business and Virtual Enterprises - Luis M. Camarinha-Matos

2013-06-29

The fast progress in computer networks and their wide availability complemented with on one hand the "explosion" of the mobile computing and on the other hand the trends in the direction of ubiquitous computing, act as powerful enablers for new forms of highly dynamic collaborative organizations and emergence of new business practices. The first efforts in virtual enterprises (VE) were strongly constrained by the need to design and develop horizontal infrastructures aimed at supporting the basic collaboration needs of consortia of enterprises. Even pilot projects that were focused on specific business domains were forced to first develop some basic infrastructures before being able to develop their specific business models. Nowadays, although there is still a need to consolidate and standardize the horizontal infrastructures, the focus is more and more directed to the development of new vertical business models and the corresponding support tools. At the same time, in the earlier R&D projects, the attention was almost exclusively devoted to the operation phase of the VE life cycle, while now there are more activities addressing the creation phase, developing mechanisms to support the rapid formation of new virtual organizations for new business opportunities. In order to complete the life cycle, there is a need to also invest on support for VE dissolution.

Cityscape - 1998

Advances in Ubiquitous Networking - Essaïd Sabir 2016-02-02

This volume publishes new trends and findings in hot topics related to ubiquitous computing/networking. It is the outcome of UNet - international scientific event that took place on September 08-10, 2015, in the fascinating city of Casablanca, Morocco. UNet'15 is technically sponsored by IEEE Morocco Section and IEEE COMSOC Morocco Chapter.

Logistics 4.0 - Turan Paksoy 2020-12-18

Industrial revolutions have impacted both, manufacturing and service. From the steam engine to digital automated production, the industrial revolutions have conducted significant changes in operations and supply chain management (SCM) processes. Swift changes in manufacturing and service systems have led to phenomenal improvements in productivity. The fast-paced environment brings new challenges and opportunities for the companies that are associated with the adaptation to the new concepts such as Internet of Things (IoT) and Cyber Physical Systems, artificial intelligence (AI), robotics, cyber security, data analytics, block chain and cloud technology. These emerging technologies facilitated and expedited the birth of Logistics 4.0. Industrial Revolution 4.0 initiatives in SCM has attracted stakeholders' attentions due to its ability to empower using a set of technologies together that helps to execute more efficient production and distribution systems. This initiative has been called Logistics 4.0 of the fourth Industrial Revolution in SCM due to its high potential. Connecting entities, machines, physical items and enterprise resources to each other by using sensors, devices and the internet along the supply chains are the main attributes of Logistics 4.0. IoT enables customers to make more suitable and valuable decisions due to the data-driven structure of the Industry 4.0 paradigm. Besides that, the system's ability of gathering and analyzing information about the environment at any given time and adapting itself to the rapid changes add significant value to the SCM

processes. In this peer-reviewed book, experts from all over the world, in the field present a conceptual framework for Logistics 4.0 and provide examples for usage of Industry 4.0 tools in SCM. This book is a work that will be beneficial for both practitioners and students and academicians, as it covers the theoretical framework, on the one hand, and includes examples of practice and real world.

Enterprise Networks and Logistics for Agile Manufacturing - Lihui Wang 2010-07-24

Enterprise Networks and Logistics for Agile Manufacturing presents a focused collection of quality chapters on state-of-the-art research efforts in the areas of enterprise networks and logistics, as well as their practical applications towards agile manufacturing. With the increasing decentralisation of manufacturing systems and outsourcing of processes, more robust and practical approaches and systems are needed to support agile manufacturing operations. Enterprise Networks and Logistics for Agile Manufacturing consists of two major sections: the first presents a broad-based review of the key areas of research in enterprise networks and logistics; the second focuses on an in-depth treatment of a particular methodology or system relevant to the book title. Examples include: • sustainable green supply chain; • value creation and supplier selection; • extended enterprise network management; • reverse logistics; and • innovative supply chain systems. The authors take into account the need to pose intellectual challenges while retaining a balanced approach in terms of scope versus depth and theory versus applications. Enterprise Networks and Logistics for Agile Manufacturing can be beneficial to academic researchers, practicing engineers and managers, and graduate students with an interest in any manufacturing sectors. It can enable them to better understand the present state and future trends of research in this important area, in order to position themselves strategically for future challenges as we enter the era of agile and distributed manufacturing.

Emerging Issues in Urban Development - 1998

Strategic Management of the Manufacturing Value Chain - Umit S. Bititci 2013-06-05

Today the Scottish electronics industry employs 40,000 people directly and a further 30,000 in the supply infrastructure. There are now more than 550 electronic manufacturing and supplier companies in 'Silicon Glen'. In terms of the contribution to the economy, electronics is by far the most valuable industry. Its value in 1996 was approximately £10 billion and accounted for more than half of Scotland's exports. The major product groupings within the industry include: • PCs, laptops and workstations • Disk drives, cable harnessing • Printers, keyboards and peripherals • Semiconductor devices and PCBs • TV, VCRs, CDs, stereos and other consumer electronics • Cellular phones and telecommunications products • ATM and funds transfer systems • Networking and security systems • Navigation and sonar systems • Microwave products • Power supplies • Software and compilers Many of these companies are multi-national OEMs, who came to Scotland as inward investing companies. Early inward investing companies were from USA, followed by companies from Japan, and more recently from Taiwan and Korea. An important segment of the industry is involved in the manufacture of computers, including IBM, Compaq, Digital and Sun. In fact approximately 40% of the PCs sold in Europe are built in Scotland. With five of the world's top eight computer manufacturers locating a manufacturing base in Scotland there has been an attraction for foreign companies keen to provide service for these multinationals. In 1995/96 the supply base output was worth £1.

Handbook of Research on Information Management for Effective Logistics and Supply Chains - Jamil, George Leal 2016-09-23

Evaluating the role of logistics and supply chain management skills or applications is necessary for the success of any organization or business. As market competition becomes more aggressive, it is crucial to evaluate ways in which a business can maintain a strategic edge over competitors. The Handbook of Research on Information Management for Effective Logistics and Supply Chains highlights strategies, tools, and skills necessary for supply management within organizations and companies. Featuring best practices and empirical research within the field, this handbook is a critical reference source for scholars, practitioners, researchers, information systems and telecommunication specialists, and managers.