

Top 10 Strategic Technology Trends For 2018 Gartner

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Innovation for Sustainability - Nancy
Bocken 2019-02-22

The aim of this edited book is to provide a
comprehensive overview of the

opportunities and challenges related to innovation for sustainability. Combining work from both emerging and established scholars in different academic fields, this book provides an integrated understanding of the topic from four perspectives. First, the big picture: frameworks, types, and drivers; second, strategy and leadership; third, measurement and assessment and fourth, tools, methods and technologies. Chapter 11 of this book is available open access under a CC BY 4.0 license at link.springer.com. The editors donate their remuneration for this book to conservation organisation the WWF.

The Evolution of Business in the Cyber Age

- Divya Gupta Chowdhry 2020-01-13

This book has a two-fold mission: to explain and facilitate digital transition in business organizations using information and communications technology and to address the associated growing threat of cyber

crime and the challenge of creating and maintaining effective cyber protection. The book begins with a section on Digital Business Transformation, which includes chapters on tools for integrated marketing communications, human resource workplace digitalization, the integration of the Internet of Things in the workplace, Big Data, and more. The technologies discussed aim to help businesses and entrepreneurs transform themselves to align with today's modern digital climate. The Evolution of Business in the Cyber Age: Digital Transformation, Threats, and Security provides a wealth of information for those involved in the development and management of conducting business online as well as for those responsible for cyber protection and security. Faculty and students, researchers, and industry professionals will find much of value in this volume.

Intelligent Connectivity - Abdulrahman

Yarali 2021-09-28

INTELLIGENT CONNECTIVITY AI, IOT, AND 5G Explore the economics and technology of AI, IOT, and 5G integration Intelligent Connectivity: AI, IoT, and 5G delivers a comprehensive technological and economic analysis of intelligent connectivity and the integration of artificial intelligence, Internet of Things (IoT), and 5G. It covers a broad range of topics, including Machine-to-Machine (M2M) architectures, edge computing, cybersecurity, privacy, risk management, IoT architectures, and more. The book offers readers robust statistical data in the form of tables, schematic diagrams, and figures that provide a clear understanding of the topic, along with real-world examples of applications and services of intelligent connectivity in different sectors of the economy. Intelligent Connectivity describes key aspects of the

digital transformation coming with the 4th industrial revolution that will touch on industries as disparate as transportation, education, healthcare, logistics, entertainment, security, and manufacturing. Readers will also get access to: A thorough introduction to technology adoption and emerging trends in technology, including business trends and disruptive new applications Comprehensive explorations of telecommunications transformation and intelligent connectivity, including learning algorithms, machine learning, and deep learning Practical discussions of the Internet of Things, including its potential for disruption and future trends for technological development In-depth examinations of 5G wireless technology, including discussions of the first five generations of wireless tech Ideal for telecom and information technology managers, directors, and engineers,

Intelligent Connectivity: AI, IoT, and 5G is also an indispensable resource for senior undergraduate and graduate students in telecom and computer science programs.

Digital Technologies in the New Socio-Economic Reality - Svetlana Igorevna

Ashmarina 2021-11-16

This book contains contributions from the IX International Scientific Conference “Digital Transformation of the Economy: Challenges, Trends and New Opportunities,” which was organized by Samara State University of Economics (SSEU, Samara, Russia), 2021, and devoted to the 90th anniversary of this higher education institution. Digital technologies became even more in demand during the pandemic, when companies, state authorities, and educational organizations were forced to switch to a remote format of work. The “forced” digitization of the usual ways of activity required rapid and decisive

changes. Understanding the ongoing digital transformation implies the relevance of further in-depth research of this issue in the context of various socioeconomic systems, interdisciplinary interactions, and cooperation between scientists and practitioners. The book is an attempt to analyze these changes and consider them from the point of view of various scientific areas (economics, management, education, law, sociology, and others). This book addresses theoretical and practical aspects by studying the digital technology application in terms of the new socioeconomic reality development: big data in the digital economy, data collection and exchange, artificial intelligence, intelligent communications, digital platforms and strategies for the sustainable development of socioeconomic systems, and new requirements of professional and business education. It provides significant

value for scientists, teachers, and students of higher educational institutions.

On power system automation: -

Christoph Brosinsky 2023-01-01

The ubiquitous digital transformation also influences power system operation. Emerging real-time applications in information (IT) and operational technology (OT) provide new opportunities to address the increasingly demanding power system operation imposed by the progressing energy transition. This IT/OT convergence is epitomised by the novel Digital Twin (DT) concept. By integrating sensor data into analytical models and aligning the model states with the observed system, a power system DT can be created. As a result, a validated high-fidelity model is derived, which can be applied within the next generation of energy management systems (EMS) to support power system operation. By providing a consistent and maintainable

data model, the modular DT-centric EMS proposed in this work addresses several key requirements of modern EMS architectures. It increases the situation awareness in the control room, enables the implementation of model maintenance routines, and facilitates automation approaches, while raising the confidence into operational decisions deduced from the validated model. This gain in trust contributes to the digital transformation and enables a higher degree of power system automation. By considering operational planning and power system operation processes, a direct link to practice is ensured. The feasibility of the concept is examined by numerical case studies.

Applications - Peter Benner 2020-12-07

An increasing complexity of models used to predict real-world systems leads to the need for algorithms to replace complex models with far simpler ones, while

preserving the accuracy of the predictions. This three-volume handbook covers methods as well as applications. This third volume focuses on applications in engineering, biomedical engineering, computational physics and computer science.

Digital Economy. Emerging Technologies and Business Innovation - Rim Jallouli 2021-12-09

This book constitutes the proceedings of the 6th International Conference on Digital Economy, ICDEc 2021. The conference was held during July 15-17, 2021. It was initially planned to take place in Tallin, Estonia, but changed to a virtual event due to the COVID-19 pandemic. The 18 papers presented in this volume were carefully reviewed and selected from 51 submissions. They were organized in topical sections as follows: Digital strategies; virtual communities; digital assets and blockchain

technology; artificial intelligence and data science; online education; digital transformation; and augmented reality and IOT.

Progress in Industrial Mathematics: Success Stories - Manuel Cruz 2021-02-07

This book presents a panorama about the recent progress of industrial mathematics from the point of view of both industrials and researchers. The chapters correspond to a selection of the contributions presented in the "Industry Day" and in the Minisymposium "EU - MATHS - IN: Success Stories of Applications of Mathematics to Industry" organized in the framework of the International Conference ICIAM 2019 held in Valencia (Spain) on July 15-19, 2019. In the Industry Day, included for the first time in this series of Conferences, representatives of companies from different countries and several sectors presented their view about the benefits regarding the

usage of mathematical tools and/or collaboration with mathematicians. The contributions of this special session were addressed to industry people.

Minisymposium contributions detailed some collaborations between mathematicians and industrials that led to real benefits in several European companies. All the speakers were affiliated in some of the European National Networks that constitute the European Service Network of Mathematics for Industry and Innovation (EU-MATHS-IN).

Applications, Challenges, and Opportunities of Blockchain Technology in Banking and Insurance - Gupta, S. L. 2022-06-03

The surge in technological transformation affects all business model phases over many industries. Emerging technologies provide new avenues for industries to increase their competitive advantage and enhance economic progression. Blockchain

technology's ability to build an open and trustworthy network model seems to promote shared IT-based networks in banking, insurance, and other similar industries. The adoption of blockchain in the banking and insurance industry is developing rapidly. Applications, Challenges, and Opportunities of Blockchain Technology in Banking and Insurance explores how blockchain technologies optimize and integrate the transactions and operations in association with access to information and reduction in communication costs and negligible data transfer errors. It includes studies on various banking and insurance industries intending to use blockchain technology to make transactions convenient, simple, and safe. Covering topics such as cryptocurrency, digital transformation, and small and medium-sized enterprises, this premier reference source is an essential

resource for policymakers, government officials, students and educators of higher education, libraries, banking managers, insurance professionals, researchers, and academicians.

Innovative Solutions for Creating Sustainable Cities - Sylvie Albert

2019-08-30

How do we prepare for and manage the challenges and the transformations that are increasingly confronting cities? Solutions are necessary for the impacts expected from the global population movement toward urban centres; the evolution of technologies and its influence on the economy; the evolving socio-cultural fabric of our cities and what it means for citizen engagement and happiness; and for the increasing need to protect and better manage the environment. The series of essays presented here will help governments, organizations, and concerned

citizens think differently about ways we can improve the places we call home. It will stimulate local stakeholders to move away from silo-thinking and work collaboratively toward innovative solutions to make cities more liveable and sustainable. The volume brings together international experts on development, innovation, education, health, digitalization, and planning to provide stimulating new ideas and successful examples of tools and systems being used worldwide to improve the future of cities.

Blockchain Technologies for Sustainable Development in Smart Cities - Swarnalatha, P. 2022-02-18

Blockchain technology has great potential to radically change our socio-economic systems by guaranteeing secure transactions between untrusted entities, reducing costs, and simplifying many processes. However, employing blockchain techniques in sustainable applications

development for smart cities still has some technical challenges and limitations. Blockchain Technologies for Sustainable Development in Smart Cities investigates blockchain-enabled technology for smart city developments and big data applications. This book provides relevant theoretical frameworks and the latest empirical research findings in the area.

Covering topics such as digital finance, smart city technology, and data processing architecture, this book is an essential reference for electricians, policymakers, local governments, city committees, computer scientists, IT professionals, professors and students of higher education, researchers, and academicians.

Immersive Learning Research Network -
Dennis Beck 2019-06-15

This volume constitutes the refereed proceedings of the 5th International Conference of the Immersive Learning

Network, iLRN 2019, held in London, UK, in June 2019. The 18 revised full papers and presented in this volume were carefully reviewed and selected from 60 submissions. The papers are organized in topical sections on science, technology, engineering, and mathematics (STEM); disciplinary applications: special education; disciplinary applications: history; pedagogical strategies; immersion and presence.

Distance Learning - Michael Simonson
2017-12-01

Distance Learning is for leaders, practitioners, and decision makers in the fields of distance learning, e-learning, telecommunications, and related areas. It is a professional journal with applicable information for those involved with providing instruction to all kinds of learners, of all ages, using telecommunications technologies of all types. Stories are written by practitioners

for practitioners with the intent of providing usable information and ideas. Articles are accepted from authors--new and experienced--with interesting and important information about the effective practice of distance teaching and learning. Distance Learning is published quarterly. Each issue includes eight to ten articles and three to four columns, including the highly regarded "And Finally..." column covering recent important issues in the field and written by Distance Learning editor, Michael Simonson. Articles are written by practitioners from various countries and locations, nationally and internationally. The Handbook of Board Governance - Richard Leblanc 2020-04-06 The revised new edition of the must-read guide for executives—provides comprehensive coverage of topics in corporate governance by leading subject-matter experts The Handbook of Board

Governance is the marketing-leading text on public, nonprofit, and private board governance. Providing comprehensive, in-depth coverage, this unique text represents a collaboration of internationally-recognized academics and prominent organization directors, executives, managers, and advisors. Contributors include Ariel Fromer Babcock, Robert Eccles, Alice Korngold, Ellie Mulholland, Michael Useem, Elizabeth Valentine and John Zinkin. Practical, expert guidance enables readers to understand value creation and the strategic role of the board, risk governance and oversight, audit and compensation committee effectiveness, CEO succession planning, and other diverse board duties and responsibilities. Now in its second edition, the Handbook offers substantial updates and revisions reflecting contemporary trends, practices, and developments in board governance. New

content includes discussions of pressing issues related to climate change, examination of information technology and cybersecurity challenges, and recent tax legislation that will impact executive compensation. Editor Dr. Richard Leblanc—an award-winning teacher, professor, lawyer, management consultant, and specialist on boards of directors—integrates practical experience and academic rigor to assist readers: Build and strengthen engaged and collaborative leadership in the boardroom Recognize the role and responsibilities of a well-functioning governing board Risk governance, assurance, and the duties of directors Keep pace with new trends in board governance and shareholder responsibility Measure performance and align performance measurement to executive pay Understand information technology governance, sustainability

governance, and the different forms of governance Highly relevant to board and committee members regardless of sector or industry, *The Handbook of Board Governance*, 2nd Edition is an invaluable source of knowledge on all aspects of corporate and organization governance.

Organizational Acceptance of Artificial Intelligence - Diana Bengel 2020-07-14

The book investigates the determinants which are influencing the acceptance of artificial intelligence (AI) in an organizational context, focusing on the German financial services industry. An AI-specific acceptance model is being developed based on technology acceptance models as well as being enriched with practical insights from industry experts. Ultimately, the acceptance of artificial intelligence is influenced by multiple, interrelated variables, which can be classified into five major dimensions:

organizational, individual, financial, technological and societal factors.

Digital Twin Driven Smart

Manufacturing - Fei Tao 2019-02-07

Digital Twin Driven Smart Manufacturing examines the background, latest research, and application models for digital twin technology, and shows how it can be central to a smart manufacturing process. The interest in digital twin in manufacturing is driven by a need for excellent product reliability, and an overall trend towards intelligent, and connected manufacturing systems. This book provides an ideal entry point to this subject for readers in industry and academia, as it answers the questions: (a) What is a digital twin? (b) How to construct a digital twin? (c) How to use a digital twin to improve manufacturing efficiency? (d) What are the essential activities in the implementation of a digital twin? (e) What are the most

important obstacles to overcome for the successful deployment of a digital twin? (f) What are the relations between digital twin and New Technologies? (g) How to combine digital twin with the New Technologies to achieve high efficiency and smartness in manufacturing? This book focuses on these problems as it aims to help readers make the best use of digital twin technology towards smart manufacturing. Analyzes the differences, synergies and possibilities for integration between digital twin technology and other technologies, such as big data, service and Internet of Things Discuss new requirements for a traditional three-dimension digital twin and proposes a methodology for a five-dimension version Investigates new models for optimized manufacturing, prognostics and health management, and cyber-physical fusion based on the digital twin

Data-Based Decision Making and

Digital Transformation - Daniel J. Power
2018-05-31

Digital disruption is accelerating. Implementing a successful digital transformation strategy requires that senior managers make trade-off decisions to reinvent a business. Equally important all decision makers must learn to ask the right questions, use data and computer support in decision making, and increase their knowledge and skills. Creating a data-centric culture and rewarding data-based decision making leads to successful digital transformation. Join the digital journey. This book is targeted at managers, especially middle-level managers who are trying to come to grips with using data-based decision making in a transforming organization. The authors explore a number of broad questions including: How can managers become data-based decision makers? How can digital transformation

become part of an organizational strategy? What new skills do managers need to implement digital transformation? How will we know an organization has been successfully transformed?

Democratization of Artificial Intelligence for the Future of Humanity - Chandrasekar Vuppalapati 2021-01-18

Artificial intelligence (AI) stands out as a transformational technology of the digital age. Its practical applications are growing very rapidly. One of the chief reasons AI applications are attaining prominence, is in its design to learn continuously, from real-world use and experience, and its capability to improve its performance. It is no wonder that the applications of AI span from complex high-technology equipment manufacturing to personalized exclusive recommendations to end-users. Many deployments of AI software, given its continuous learning need, require

computation platforms that are resource intense, and have sustained connectivity and perpetual power through central electrical grid. In order to harvest the benefits of AI revolution to all of humanity, traditional AI software development paradigms must be upgraded to function effectively in environments that have resource constraints, small form factor computational devices with limited power, devices with intermittent or no connectivity and/or powered by non-perpetual source or battery power. The aim this book is to prepare current and future software engineering teams with the skills and tools to fully utilize AI capabilities in resource-constrained devices. The book introduces essential AI concepts from the perspectives of full-scale software development with emphasis on creating niche Blue Ocean small form factored computational environment products.

Retrofitting for Optimal Energy Performance - Tantau, Adrian 2019-06-14

Retrofitting expresses, in a traditional approach, the process of improving something after it has been manufactured, constructed, or assembled. These systems integrate new technologies, new functions, and new services that increase the energy performance in existing private, public, and commercial buildings. Retrofitting for Optimal Energy Performance is a comprehensive reference source that examines environmentally conscious technologies and their applications in advancing retrofitting practices. Providing relevant theoretical frameworks and the latest empirical research findings in the area, it highlights an array of topics such as climate change, energy management, and optimization modeling, and is essential for academicians, students, researchers, engineers, architects, entrepreneurs,

managers, policymakers, and building owners.

A Digital Framework for Industry 4.0 -

Ana Landeta Echeberria 2020-12-18

This book examines the impact of industry 4.0, and constructs a strategic digital transformation operational framework to prepare for it. It begins by examining the background of industry 4.0, exploring the industrial internet, new business models and disruptive technologies, as well as the challenges that this revolution brings for industries and manager. The research enhances our understanding of strategic digital transformation framework within industry 4.0. It will be valuable reading for academics working in the field of industry 4.0 and strategy, as well as practitioners interested in enhancing their firms' readiness for industry 4.0.

Handbook Of Digital Enterprise Systems: Digital Twins, Simulation And Ai - Wolfgang

Kuhn 2019-06-04

Digitalization is changing nearly everything. This compendium highlights a comprehensive understanding of the concepts and technologies about digitalization in industrial environments, using the Industrial Internet of Things, Digital Twins and data-driven decision-making approaches including Artificial Intelligence. The overview of industrial enterprise platforms and the consideration of future trends gives a fundamental idea of concepts and strategies, how to get started and about the required changes of business models.

Beyond Reality - Kenneth J. Varnum
2019-07-03

The current price of virtual reality headsets may seem out of economic reach for most libraries, but the potential of "assisted reality" tools goes well beyond merely inviting patrons to strap on a pair of

goggles. Ranging from enhanced training to using third-party apps to enrich digital collections, there is a kaleidoscope of library uses for augmented, virtual, or mixed reality. In this collection, Varnum and his hand-picked team of contributors share exciting, surprising, and inspiring case studies from a mix of institution types, spotlighting such topics as collaborative virtual reality for improved library instruction, education, and learning and teaching; 3D modeling using virtual reality; virtual reality as collaboration space, from gaming to teleconferencing; balancing access with security, and other privacy issues; future possibilities for augmented reality in public libraries; and augmented reality for museums and special collection libraries. A perfect introduction to the topic, this book will encourage libraries to look beyond their own reality and adapt the ideas inside.

Fusing Big Data, Blockchain and Cryptocurrency - Hossein Hassani

2019-12-18

As technology continues to revolutionise today's economy, Big Data, Blockchain and Cryptocurrency are rapidly transforming themselves into mainstream functions within the financial services industry. This book examines each concept individually, analysing the opportunities and challenges they bring and exploring the potential for future development. The authors further evaluate the fusion of these three important products of the FinTech revolution, illustrating their combined influence on the digital economy. Providing a comprehensive analysis of three innovative technologies, this timely book will appeal to scholars researching innovation in the finance industry and financial services technology more specifically.

Demystifying Federated Learning for

Blockchain and Industrial Internet of Things - Kautish, Sandeep 2022-06-17

In recent years, mobile technology and the internet of objects have been used in mobile networks to meet new technical demands. Emerging needs have centered on data storage, computation, and low latency management in potentially smart cities, transport, smart grids, and a wide number of sustainable environments. Federated learning's contributions include an effective framework to improve network security in heterogeneous industrial internet of things (IIoT) environments. Demystifying Federated Learning for Blockchain and Industrial Internet of Things rediscovers, redefines, and reestablishes the most recent applications of federated learning using blockchain and IIoT to optimize data for next-generation networks. It provides insights to readers in a way of inculcating the theme that shapes the next generation

of secure communication. Covering topics such as smart agriculture, object identification, and educational big data, this premier reference source is an essential resource for computer scientists, programmers, government officials, business leaders and managers, students and faculty of higher education, researchers, and academicians.

Building Enterprise IoT Applications -

Chandrasekar Vuppalapati 2019-12-12
McKinsey Global Institute predicts Internet of Things (IoT) could generate up to \$11.1 trillion a year in economic value by 2025. Gartner Research Company expects 20 billion inter-connected devices by 2020 and, as per Gartner, the IoT will have a significant impact on the economy by transforming many enterprises into digital businesses and facilitating new business models, improving efficiency and increasing employee and customer engagement. It's

clear from above and our research that the IoT is a game changer and will have huge positive impact in foreseeable future. In order to harvest the benefits of IoT revolution, the traditional software development paradigms must be fully upgraded. The mission of our book, is to prepare current and future software engineering teams with the skills and tools to fully utilize IoT capabilities. The book introduces essential IoT concepts from the perspectives of full-scale software development with the emphasis on creating niche blue ocean products. It also: Outlines a fundamental full stack architecture for IoT Describes various development technologies in each IoT layer Explains IoT solution development from Product management perspective Extensively covers security and applicable threat models as part of IoT stack The book provides details of several IoT reference

architectures with emphasis on data integration, edge analytics, cluster architectures and closed loop responses.

Digital Twin Driven Smart Design - Fei Tao 2020-05-07

Digital Twin Driven Smart Design draws on the latest industry practice and research to establish a basis for the implementation of digital twin technology in product design. Coverage of relevant design theory and methodology is followed by detailed discussions of key enabling technologies that are supported by cutting-edge case studies of implementation. This groundbreaking book explores how digital twin technology can bring improvements to different kinds of product design process, including functional, lean and green. Drawing on the work of researchers at the forefront of this technology, this book is the ideal guide for anyone interested in digital manufacturing or computer-aided design.

Provides detailed case studies that explore key applications of digital twin technology in design practice Introduces the concept of using digital twins to create the virtual commissioning of design projects Presents a framework to help engineers incorporate digital twins into their product design process

Management and Business Education in the Time of Artificial Intelligence -

Agata Stachowicz-Stanusch 2020-05-01

Artificial intelligence (AI) technologies are one of top investment priorities in these days. They are aimed at finding applications in fields of special value for humans, including education. The fourth industrial revolution will replace not only human hands but also human brains, the time of machines requires new forms of work and new ways of business education, however we must be aware that if there is no control of human-AI interaction, there is a risk of

losing sight of this interaction's goal. First, it is important to get people to truly understand AI systems, to intentionally participate in their use, as well as to build their trust, because "the measure of success for AI applications is the value they create for human lives" (Stanford University 2016, 33). Consequently, society needs to adapt to AI applications if it is to extend its benefits and mitigate the inevitable errors and failures. This is why it is highly recommended to create new AI-powered tools for education that are the result of cooperation between AI researchers and humanities' and social sciences' researchers, who can identify cognitive processes and human behaviors. This book is authored by a range of international experts with a diversity of backgrounds and perspectives hopefully bringing us closer to the responses for the questions what we should teach (what the

'right' set of future skills is), how we should teach (the way in which schools should teach and assess them) and where we should teach (what implications does AI have for today's education infrastructure). We must remember as we have already noticed before "...education institutions would need to ensure that that they have an appropriate infrastructure, as well as the safety and credibility of AI-based systems. Ultimately, the law and policies need to adjust to the rapid pace of AI development, because the formal responsibility for appropriate learning outcomes will in future be divided between a teacher and a machine. Above all, we should ensure that AI respect human and civil rights (Stachowicz-Stanusch, Amann, 2018)". Public Service Excellence in the 21st Century - Alikhan Baimenov 2019-01-17 This book combines academic wisdom and practitioners' insights to critically examine

the challenges faced by civil service systems in the 21st Century. Moreover, the book evaluates what types of civil servants are needed to tackle critical issues such as rapidly ageing populations, increased urbanisation, environmental degradation, swift technological advancement, and globalisation of the market place in the social and economic realm of the 21st Century. Its topics range from civil service development in post-Soviet countries indicating that peer-to-peer learning is the way forward, to civil service reforms in China, Japan, and Korea in their quest to satisfy their citizens demands and expectations in the 21st Century. Other topics span across regional analyses by focusing on current dominant trends and challenges confronting administrative and civil service systems, vis-à-vis technology, innovation and "big data", and their disruptive effects on society and

government. This book will be of interest to both academics and practitioners, and would-be builders of the 21st Century world.

Collaborative Networks in Digitalization and Society 5.0 - Luis M. Camarinha-Matos
2022-09-12

This book constitutes the refereed proceedings of the 23rd IFIP WG 5.5 Working Conference on Virtual Enterprises, PRO-VE 2022, held in Lisbon, Portugal, in September 2022. The 55 papers presented were carefully reviewed and selected from 119 submissions. They provide a comprehensive overview of major challenges and recent advances in various domains related to the digital transformation and collaborative networks and their applications with a strong focus on the following areas related to the main theme of the conference: sustainable collaborative networks; sustainability via

digitalization; analysis and assessment of business ecosystems; human factors in collaboration 4.0; maintenance and life-cycle management; policies and new digital services; safety and collaboration management; simulation and optimization; complex collaborative systems and ontologies; value co-creation in digitally enabled ecosystems; digitalization strategy in collaborative enterprises' networks; pathways and tools for DIHs; socio-technical perspectives on smart product-service systems; knowledge transfer and accelerated innovation in FoF; interoperability of IoT and CPS for industrial CNs; sentient immersive response network; digital tools and applications for collaborative healthcare; collaborative networks and open innovation in education 4.0; collaborative learning networks with industry and academia; and industrial workshop.

Machine Learning and Artificial Intelligence for Agricultural Economics - Chandrasekar Vuppalapati 2021-10-04

This book discusses machine learning and artificial intelligence (AI) for agricultural economics. It is written with a view towards bringing the benefits of advanced analytics and prognostics capabilities to small scale farmers worldwide. This volume provides data science and software engineering teams with the skills and tools to fully utilize economic models to develop the software capabilities necessary for creating lifesaving applications. The book introduces essential agricultural economic concepts from the perspective of full-scale software development with the emphasis on creating niche blue ocean products. Chapters detail several agricultural economic and AI reference architectures with a focus on data integration, algorithm development, regression, prognostics model development

and mathematical optimization. Upgrading traditional AI software development paradigms to function in dynamic agricultural and economic markets, this volume will be of great use to researchers and students in agricultural economics, data science, engineering, and machine learning as well as engineers and industry professionals in the public and private sectors.

Proceedings of Second International Conference on Computing, Communications, and Cyber-Security - Pradeep Kumar Singh 2021-05-24

This book features selected research papers presented at the Second International Conference on Computing, Communications, and Cyber-Security (IC4S 2020), organized in Krishna Engineering College (KEC), Ghaziabad, India, along with Academic Associates; Southern Federal University, Russia; IAC Educational, India;

and ITS Mohan Nagar, Ghaziabad, India during 3–4 October 2020. It includes innovative work from researchers, leading innovators, and professionals in the area of communication and network technologies, advanced computing technologies, data analytics and intelligent learning, the latest electrical and electronics trends, and security and privacy issues.

Digital Supply Chain Leadership - David B. Kurz 2021-02-25

Strong leadership is necessary to drive the transformational change required to build and apply digital capabilities across organizations. Digital transformation in the supply chain is a leadership problem first and foremost. This book draws out some of the key digital business strategies supply chain leaders must become familiar with as they take on the responsibilities of leading transformations within their firms. The central rationale of the book is to establish

a clear business case for the performance shifts and opportunities of the Digital Supply Chain. The benefits of a digital supply chain for firms can be summarized as uniquely reducing the amount of trade-off between costs and customer satisfaction. The challenges, complexity, and management involved in transforming to a digital supply chain have slowed many firms in their implementation. The key to unlocking this value and advantage is a new, robust, and digitally aware supply chain leadership mindset. It will provide readers with a practical Digital Supply Chain Leadership Road Map that will accelerate actions in technology, analytics, talent and business models. The road map to digital transformation will step the reader through these critical dimensions and illustrate how they can support their own organizational transformation by developing greater levels of maturity. This

book will be most valued by supply chain leaders in medium to large scale organizations, as well as consultants and academics interested in digital business and supply chain transformation. The book will also be valuable for students studying digital transformation, supply chain, and operations.

Research and Practical Issues of Enterprise Information Systems - Petr Doucek
2019-12-13

This book constitutes the refereed proceedings of the 13th IFIP WG 8.9 Working Conference on Research and Practical Issues of Enterprise Information Systems, CONFENIS 2019, held in Prague, Czech Republic, in December 2019. The 11 full and 2 short papers included in this volume were carefully reviewed and selected from 43 submissions. They were organized in topical sections named: EIS and industry; technical architecture and

applications for EIS; collaborative networks and project management; and security and privacy issues.

The NICE Cyber Security Framework - Izzat Alsmadi 2023-04-13

This updated textbook is for courses in cyber security education that follow the National Initiative for Cybersecurity Education (NICE) framework which adopts the Competency- Based Education (CBE) method. The book creates content based on the Knowledge, Skills and Abilities (a.k.a. KSAs) described in the NICE framework. This book focuses on cyber analytics and intelligence areas. The book has 18 chapters: Introduction, Acquisition Management, Continuity Planning and Disaster Recovery, Cyber Defense Analysis and Support, Cyber Intelligence, Cyber Intelligence Analysis, Cyber Operational Planning, Cyber Policy and Strategy Management, Cyber Threat Analysis,

Cybersecurity Management, Forensics Analysis, Identity Management, Incident Response, Collection Operations, Computer Network Defense, Data Analysis, Threat Analysis and last chapter, Vulnerability Assessment.

Drones as Cyber-Physical Systems - Jung-Sup Um 2019-01-31

This book introduces the concept of using drones as a teaching tool to explore the fundamental principles, technology and applications of Cyber-Physical Systems (CPS). A short introduction sets CPS in the context of the 4th industrial revolution, and describes various CPS technologies including self-driving cars, commercial intelligent drones and mobile robots, in which artificial intelligence routinely supports smarter decision-making. The core of the book then focuses on commercially available drones, the only available system offering the advantage of cyber-physical

bridging through 3D autonomous dynamic flying in classroom conditions. Chapters describe drone technology, including location sensors and imaging systems. CPS theory is explained through typical drone flying procedures and do-it-yourself (DIY) aerial photography in which communication between sensors, actuators and controllers occurs through cyber-physical bi-directional bridging. This book opens new possibilities in fostering 4th industrial revolution literacy, introducing relevant examples from readily available equipment, making core elements of cyber-physical bridging accessible. It is aimed primarily at those students who have an interest in CPS, drones and those from disciplines that are concerned with spatial information.

Contemporary Issues in Branding -

Pantea Foroudi 2019-12-16

This book provides students and academics with a comprehensive analysis of the theory

and practice of branding. The challenge to explore new and effective ways of harnessing the power of communication to engage with company stakeholders in interactive, immediate and innovative ways is ever-present in the digital era. Digital marketing and social media create opportunities for managers to communicate their brand's identity to their consumers and stakeholders. Yet, limited empirical research exists to elucidate these issues, and less still that assists our understanding of branding issues at an international level. Recognising the complexity and plurality at the heart of the branding discipline, this text explores the relationship between brands, identity and stakeholders. Working through building, designing and maintaining a brand, the authors consider such aspects as strategic planning and campaign management, research and measurement, media relations, employee

communication, leadership and change communication, and crisis branding. Critically, differing methods and approaches applied to branding and communication research design are assessed, including both qualitative and quantitative methods. Proposing a mixture of theory and practice with international case studies, this book is an invaluable companion for advanced undergraduate and postgraduate students, academics of marketing and strategic brand management, as well as managers and decision makers globally.

From Bioinspired Systems and Biomedical Applications to Machine Learning - José Manuel Ferrández Vicente 2019-05-09
The two volume set LNCS 11486 and 11487 constitutes the proceedings of the International Work-Conference on the Interplay Between Natural and Artificial Computation, IWINAC 2019, held in

Almería, Spain,, in June 2019. The total of 103 contributions was carefully reviewed and selected from 190 submissions during two rounds of reviewing and improvement. The papers are organized in two volumes, one on understanding the brain function and emotions, addressing topics such as new tools for analyzing neural data, or detection emotional states, or interfacing with physical systems. The second volume deals with bioinspired systems and biomedical applications to machine learning and contains papers related bioinspired programming strategies and all the contributions oriented to the computational solutions to engineering problems in different applications domains, as biomedical systems, or big data solutions.

Total Manufacturing Assurance -

Douglas Brauer 2022-04-07

This new edition presents an enhanced perspective for the innovative concept of

Total Manufacturing Assurance (TMA) and the holistic means by which such assurance can be attained. In fulfilling this objective, this textbook discusses the management and engineering techniques and tools, required to achieve TMA. Using a holistic approach to manufacturing operations, Total Manufacturing Assurance: Controlling Product Quality, Reliability, and Safety, Second Edition focuses on analytics and performance assessment, along with Industry 4.0 and the role it plays in advanced manufacturing. The textbook covers strategic planning, innovation, and engineering economics, as well as the manufacturing process, materials, and operations. Product manufacturing system reliability, maintainability, availability, quality, and safety, along with financial issues in decision-making and engineering analysis, are all captured in this new edition. Students at undergraduate and

graduate levels studying engineering management, mechanical, industrial, and manufacturing engineering, as well as business students will find this new edition an invaluable instructional resource. At the same time, working professionals, including management, engineers, and others who are intimately involved in the manufacturing system sector will also find this textbook very useful in their day-to-day work. PowerPoint slides and a solutions manual are available to instructors for qualified course adoptions.

Contemporary Business - Louis E. Boone
2019-12-09

Contemporary Business, Third Canadian Edition, is a comprehensive introductory course. Rooted in the basics of business, this course provides students a foundation upon which to build a greater understanding of current business practices and issues that affect their lives. A wide

variety of global issues, ideas, industries, technologies, and career insights are presented in a straightforward, application-based format. Written in a conversational style and edited for plain language, Contemporary Business ensure readability for all students, including students for whom English is their second language. The goal of this course is to improve a student's ability to evaluate and provide solutions to today's global business challenges and ultimately to thrive in today's fast-paced business environment.

Knowledge Management in Organizations -
Lorna Uden 2019-06-11

This book contains the refereed proceedings of the 14th International Conference on Knowledge Management in Organizations, KMO 2019, held in Zamora, Spain, in July 2019. The 46 papers accepted for KMO 2018 were selected from 109 submissions and are organized in topical

sections on: knowledge management models and analysis; knowledge transfer and learning; knowledge and service innovation; knowledge creation; knowledge

and organization; information systems and information science; data mining and intelligent science; social networks and social aspects of KM; big data and IoT; and new trends in IT.