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[Intelligent Technologies for Web Applications](#) Jan 31 2020 The Internet has become an integral part of human life, yet the web still utilizes mundane interfaces to the physical world, which makes Internet operations somewhat mechanical, tedious, and less human-oriented. Filling a large void in the literature, [Intelligent Technologies for Web Applications](#) is one of the first books to focus on providing vital fundamental and advanced guidance in the area of Web intelligence for beginners and researchers. The book covers techniques from diverse areas of research, including: Natural language processing Information extraction, retrieval, and filtering Knowledge representation and management Machine learning Databases Data, web, and text mining Human-computer interaction Semantic web technologies To develop effective and intelligent web applications and services, it is critical to discover useful knowledge through analyzing large amounts of content, hidden content structures, or usage patterns of web data resources. Intended to improve and reinforce problem-solving methods in this area, this book delves into the hybridization of artificial intelligence (AI) and web technologies to help simplify complex Web operations. It introduces readers to the state-of-the art development of web intelligence techniques and teaches how to apply these techniques to develop the next generation of intelligent Web applications. The book lays out presented projects, case studies, and innovative ideas, which readers can explore independently as standalone research projects. This material facilitates experimentation with the book's content by including fundamental tools, research directions, practice questions, and additional reading.

The Routledge Companion to Technology Management Dec 12 2020 Bringing together an international range of expertise, this comprehensive Companion to Technology Management is designed to facilitate the development of management frameworks adaptable for a wide range of organizations, as well as an overview of the development and integration of technology in advanced and emerging economies. Research-based and drawing on a range of practical tools and international cases, it covers the diverse spectrum of the challenges of technology management and how to approach them: I Fundamentals of Technology Management provides an overview of the fundamental aspects of technology management. II Technology Planning focusses on technology-driven organizations, government labs and universities. III Technology Evaluation includes evaluation and assessment, adoption and forecasting through management tools. IV Technology Development and Transfer includes integration, marketing and intellectual property management. V Managing Technological Innovations addresses policy, open innovation and technology entrepreneurship. VI Society and Technology Management focusses on social issues which impact technology and its management. VII New Technologies and Emerging Regions includes blockchain, biotechnologies and smart cities. This Companion is an essential comprehensive source of new and emerging approaches for researchers and advanced students in engineering and technology management, as well as professionals seeking an authoritative global reference source.

[Sensors in Science and Technology](#) Mar 03 2020 Sensors are used to measure physical, chemical and biological quantities. The book offers a comprehensive overview of physical principles, functions and applications of sensors. It is structured according to the fields of activity of sensors and shows their application by means of typical examples. Measured variables that can be recorded by sensors are e.g. mechanical, dynamic, thermal, electrical and magnetic. Furthermore, optical and acoustical sensors are discussed in detail in the book. The sensor signals are recorded, processed and converted into control signals for actuators. Such sensor systems are also presented. This book is a translation of the original German 2nd edition [Sensoren in Wissenschaft und Technik](#) by Ekbert Hering, published by Springer Fachmedien Wiesbaden GmbH, part of Springer Nature in 2017. The translation was done with the help of artificial intelligence (machine translation by the service DeepL.com). A subsequent human revision was done primarily in terms of content, so that the book will read stylistically differently from a conventional translation. Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors. The Content Fundamentals of sensor systems · Physical effects for sensor use · Measured variables that can be recorded by sensors · Mechanical measured variables · Thermal measured variables · Electrical and magnetic measured variables · Optical measured variables · Acoustic measured variables · Climatic and meteorological measured variables · Chemical measured variables · Biological and medical measured variables The Target Groups " Engineers and natural scientists in practice " Students and lecturers at universities " Experts in the field of sensor technology The Authors Prof. Dr. Dr. Ekbert Hering has been teaching physics, electronics, photonics and business administration at Aalen University since 1971. He was rector of the university, served on various supervisory boards and was the author of 70 textbooks, 45 of which were published by Springer Vieweg. Dr.-Ing. Gert Schönfelder received his doctorate in digital measurement technology. He worked in the field of computer architecture, image-based measurement technology (stereo) and system design of cameras and measurement technology. Since 8 years he is head of development at a manufacturer of pressure sensors.

[Proceedings of the 6th International Symposium on Green and Smart Technologies for a Sustainable Society](#) Feb 23 2022 This symposium, originally founded in 2013 by Universidade Nova de Lisboa, Universidad de Zaragoza and University of Yamaguchi, is conceived as an international forum for the dissemination and reinforcement of research collaboration among the participating institutions. Different institutions have been invited to participate in subsequent editions. University of Cantabria had the opportunity to participate in the 2nd and 5th edition, and we are honoured to organize the present 6th conference, that unfortunately, was forced to be celebrated remotely due to the COVID-19 global pandemic. This edition continues with the topics discussed in the previous symposium. Scientific topics are aligned with the 2030 Agenda for Sustainable Development, and aimed at the study of key-enabling technologies and processes to ensure a sustainable industry for the society of the future. As a novelty in this

edition, the symposium will consist of two events that will take place in parallel: · Live online scientific seminars given by reputed experts in the field of Chemical Engineering and related complementary scientific areas. · Students workshop aimed at the dissemination of the research activities of PhD and MS candidates. A special seminar session has been included, devoted to the dissemination of research goals and collaborative outcomes of the X-MEM project (5th EIG-Concert Japan joint call on «Porous structured materials»), with a partnership composed of researchers from University of Cantabria (Spain), University of Yamaguchi (Japan), Atılım University (Turkey), Ege University (Turkey), Hacettepe University (Turkey) and Jerzy Haber Institute of Catalysis and Surface Chemistry (Poland).

Smart Technologies in Urban Engineering Oct 02 2022 This book offers a comprehensive review of smart technologies and perspectives on their application in urban engineering. It covers a wide range of applications, from transport and energy management to digital manufacturing, smart city, environment, and sustainable development, providing readers with new ideas for future research and collaborations. This book presents select papers from the International Conference on Smart Technologies in Urban Engineering (STUE-2022), held to commemorate the 100th anniversary of the O.M. Beketov National University of Urban Economy in Kharkiv, Ukraine, on June 9–11, 2022. All the contributions offer plenty of valuable information and would be of great benefit to the experience exchange among scientists in urban engineering.

Handbook of Research on Smart Technology Applications in the Tourism Industry Mar 15 2021 In today's modernized society, certain technologies have become more applicable within many professional fields and are much easier to implement. This includes the tourism industry, where smart technology has provided a range of new marketing possibilities including more effective sales tactics and delivering a more personalized customer experience. As the scope of business analytics continues to expand, professionals need research on the various applications of smart technology within the field of tourism. The Handbook of Research on Smart Technology Applications in the Tourism Industry is an essential reference source that discusses the use of intelligent systems in tourism as well as their influence on consumer relationships. Featuring research on topics such as digital advertising, wearable technology, and consumer behavior, this book is ideally designed for travel agents, tour developers, restaurateurs, hotel managers, tour directors, airlines, marketers, researchers, managers, hospitality professionals, policymakers, business strategists, researchers, academicians, and students seeking coverage on the use of smart technologies in tourism.

Smart Trends in Information Technology and Computer Communications Apr 03 2020 This book constitutes the refereed proceedings of the First International Conference on Smart Trends in Information Technology and Computer Communications, SmartCom 2016, held in Jaipur, India, in August 2016. The 106 revised papers presented were carefully reviewed and selected from 469 submissions. The papers address issues on smart and secure systems; technologies for digital world; data centric approaches; applications for e-agriculture and e-health; products and IT innovations; research for knowledge computing.

Smart Cities Policies and Financing Jul 07 2020 Smart Cities Policies and Financing: Approaches and Solutions is the definitive professional reference for harnessing the full potential of policy making and financial planning in smart cities. It covers the effective tools for capturing the dynamic relations between people, policies, financing, and environments, and where they are most often useful and effective for all relevant stakeholders. The book examines the key role of science, technology, and innovation (STI) - especially in information and communications technologies - in the design, development, and management of smart cities policies and financing. It identifies the problems and offers practical solutions in implementation of smart infrastructure policies and financing. Smart Cities Policies and Financing is also about how the implementation of smart infrastructure projects (related to the challenges of the lack of financing and the application of suitable policies) underlines the key roles of science, technology and innovation (STI) communities in addressing these challenges and provides key policies and financing that will help guide the design and development of smart cities. Brings together experts from academia, government and industry to offer state-of-the-art solutions for improving the lives of billions of people in cities around the globe Creates awareness among governments of the various policy tools available, such as output-based contracting, public-private partnerships, procurement policies, long-term contracting, and targeted research funds in order to promote smart infrastructure implementation, and encouraging the use of such tools to shape markets for smart infrastructure and correct market failures Ensures the inclusiveness of smart city projects by adequately addressing the special needs of marginalized sections of society including the elderly, persons with disabilities, and inhabitants of informal settlements and informal sectors Ensures gender considerations in the design of smart cities and infrastructure through the use of data generated by smart systems to make cities safer and more responsive to the needs of women Demonstrate practical implementation through real-life case studies Enhances reader comprehension using learning aids such as hands-on exercises, checklists, chapter summaries, review questions, and an extensive appendix of additional resources

PC Mag Jun 29 2022 PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

Planning and Designing Smart Cities in Developing Nations Jan 01 2020 As smart cities are rapidly developing, it is vital that they are built on a combination of support and active participation of self-decisive, independent, and aware citizens by ensuring strong human capital, social capital, and information and communications technology infrastructure. Due to this evolution across the globe, it is critical to examine how others are working to create smarter cities in order to learn and revolutionize the way cities are planned and executed. Planning and Designing Smart Cities in Developing Nations explores smart city implementation in developing countries by highlighting the challenges and opportunities of smart cities and showcasing various developments and accomplishments and presents a framework to implement strategic plans for smart development. Covering topics such as smart technologies and social capital, it is ideal for policymakers, economic and development professionals, city planners and designers, government officials, academicians, professors, and students.

Handbook of Smart Materials, Technologies, and Devices Jun 05 2020 This handbook brings together technical expertise, conceptual background, applications, and societal aspects of Industry 4.0: the evolution of automation and data exchange in fabrication technologies, materials processing, and device manufacturing at both experimental and theoretical model scales. The book assembles all the aspects of Industry 4.0, starting from the emergence of the concept to the consequences of its progression. Drawing on expert contributors from around the world, the volume details the technologies that sparked the fourth revolution and illustrates their characteristics, potential, and methods of use in the industrial and societal domains. In addition, important topics such as ethics, privacy and security are considered in a reality where all data is shared and saved remotely. The collection of contribution serve a very broad audience working in the fields of science and engineering, chemical engineering, materials science, nanotechnology, energy, environment, green chemistry, sustainability, electrical and electronic engineering, solid-state physics, surface science, aerosol technology, chemistry, colloid science, device engineering, and computer technology. This handbook ideal reference libraries in universities and industrial institutions, government and independent institutes, individual research groups and scientists.

The 2021 International Conference on Smart Technologies and Systems for Internet of Things Jan 25 2022 This book contains papers presented at the 2021 International Conference on Smart Technologies and Systems for Internet of Things, held on November 26-27, 2021, in Shanghai, China. It covers topics like distributed processing for sensor data in CPS networks, approximate reasoning and pattern recognition for CPS networks, distributed processing in mobile networking, data analytics for social media sensor data integration, data platforms for efficient integration with CPS networks, virtualized and cloud-oriented resources for data processing for CPS networks, machine learning algorithms for CPS networks, data security and privacy in CPS networks, sensor fusion algorithms, sensor signal processing, data acquisition and preprocessing technology, intelligent computing, data mining methods and algorithms, big data system solutions and tools platform, intelligent control and intelligent management, and operational situation awareness utilizing big data-driven intelligence. It caters to postgraduate students, researchers, and practitioners specializing and working in related areas.

Smart Technologies: Breakthroughs in Research and Practice Sep 08 2020 Ongoing advancements in modern technology have led to significant developments with smart technologies. With the numerous applications available, it becomes imperative to conduct research and make further progress in this field. Smart Technologies: Breakthroughs in Research and Practice provides comprehensive and interdisciplinary research on

the most emerging areas of information science and technology. Including innovative studies on image and speech recognition, human-computer interface, and wireless technologies, this multi-volume book is an ideal source for researchers, academicians, practitioners, and students interested in advanced technological applications and developments.

Ubiquitous and Pervasive Computing: Concepts, Methodologies, Tools, and Applications Jul 27 2019 "This publication covers the latest innovative research findings involved with the incorporation of technologies into everyday aspects of life"--Provided by publisher.

Marketing and Smart Technologies Oct 10 2020 This book includes selected papers presented at the International Conference on Marketing and Technologies (ICMarkTech 2019), held at Maieutica Academic Campus (University Institute of Maia & Polytechnic Institute of Maia) in Maia, Portugal, from 27 to 29 November 2019. It covers up-to-date cutting-edge research on artificial intelligence applied in marketing, virtual and augmented reality in marketing, business intelligence databases and marketing, data mining and big data, marketing data science, web marketing, e-commerce and v-commerce, social media and networking, geomarketing and IoT, marketing automation and inbound marketing, machine learning applied to marketing, customer data management and CRM, and neuromarketing technologies.

Smart Technologies for Energy, Environment and Sustainable Development Jul 19 2021 This book comprises select proceedings of the International Conference on Smart Technologies for Energy, Environment, and Sustainable Development (ICSTEESD 2018). The chapters are broadly divided into three focus areas, viz. energy, environment, and sustainable development, and discusses the relevance and applications of smart technologies in these fields. A wide variety of topics such as renewable energy, energy conservation and management, energy policy and planning, environmental management, marine environment, green building, smart cities, smart transportation are covered in this book. Researchers and professionals from varied engineering backgrounds contribute chapters with an aim to provide economically viable solutions to sustainable development challenges. The book will prove useful for academics, professionals, and policy makers interested in sustainable development.

SMART Technologies for Natural Resource Conservation and Sustainable Development Feb 11 2021 The book is a conference proceeding on adoption and application of sustainable, Manageable, Appropriate, Rational and Transferable (SMART) Technologies in all sectors of development.

Introduction to Industrial Internet of Things and Industry 4.0 Nov 30 2019 Industrial IoT (IIoT) and Industry 4.0 are newly developing and fast emerging domains of interest among students, researchers, and professionals in academia and industry. Due to the popular demand of this topic, Introduction to Industrial Internet of Things and Industry 4.0 is written to serve a diverse readership from the domains of computer science and engineering, mechanical engineering, information technology, industrial engineering, electronics engineering, and other related branches of engineering. Based on the lead author's massive open online courses (MOOCs), this book can be used as a textbook on the emerging paradigm of Industry 4.0 and IIoT, as well as a reference for professionals working in sectors of IIoT. The book covers the significant aspects of IIoT in detail, including sensors, actuators, data transmission, and data acquisition, which form the core of IIoT. Topics and concepts are presented in a comprehensive manner, so that readers can develop expertise and knowledge. The book helps beginners to gain a basic idea of Industry 4.0 and IIoT as the first section is an overview of IoT applications, infrastructure-based protocols, cloud computing, and fog computing. The second section is designed to impart a basic knowledge of Industry 4.0 and IIoT as well as of the different phases of development in industry. Delving into more advanced areas, other sections in the book cover: The business models and reference architecture of IIoT The technological aspects of Industry 4.0 and IIoT Predictive and prescriptive analytics applied in IIoT-based implementations Applications and case studies of IIoT Key enabling technologies of IIoT To aid students and professional master IIoT and Industry 4.0, the book includes conceptual questions, exercises, and learning objectives.

Internet of Things in Smart Technologies for Sustainable Urban Development Jun 17 2021 This book provides solution for challenges facing engineers in urban environments looking towards smart development and IoT. The authors address the challenges faced in developing smart applications along with the solutions. Topics addressed include reliability, security and financial issues in relation to all the smart and sustainable development solutions discussed. The solutions they provide are affordable, resistive to threats, and provide high reliability. The book pertains to researchers, academics, professionals, and students. Provides solutions to urban sustainable development problems facing engineers in developing and developed countries Discusses results with industrial problems and current issues in smart city development Includes solutions that are reliable, secure and financially sound

Smart Technologies, Systems and Applications May 29 2022 This book constitutes refereed proceedings of the First International Conference on Smart Technologies, Systems and Applications, held in Quito, Ecuador, in December 2019. The 27 full papers and 3 short papers presented were carefully reviewed and selected from 90 submissions. The papers of this volume are organized in topical sections on smart technologies; smart systems; smart trends and applications.

Human Factors, Business Management and Society May 05 2020 Human Factors, Business Management and Society Proceedings of the 13th International Conference on Applied Human Factors and Ergonomics (AHFE 2022), July 24-28, 2022, New York, USA

Smart Technologies for Sustainable Smallholder Agriculture Nov 10 2020 Smart Technologies for Sustainable Smallholder Agriculture: Upscaling in Developing Countries defines integrated climate smart agricultural technologies (ICSAT) as a suite of interconnected techniques and practices that enhance quantity and quality of agricultural products with minimum impact on the environment. These ICSAT are centered on three main pillars, increased production and income, adaptation and resilience to climate change, and minimizing GHG emissions. This book brings together technologies contributing to the three pillars, explains the context in which they can be scaled up, and identifies research and development gaps as areas requiring further investigation. It stresses the urgency in critically analyzing and recommending ICSAT and scaling out the efforts of both developing and disseminating these in an integrated manner. The book discusses, synthesizes, and offers alternative solutions to agriculture production systems and socio-economic development. It brings together biophysical and socioeconomic disciplines in evaluating suitable ICSAT in an effort to help reduce poverty and food insecurity. Highlights the research gaps and opportunities on climate smart agricultural technologies and institutional arrangements Provides information on institutional engagements that are inclusive of value chain actors that support partnerships and the development of interactive platforms Elaborates some of the effects of climate extremes on production and socioeconomic development on small farms whose impact has potentially large impact

Smart Technologies and Innovations in Design for Control of Technological Processes and Objects: Economy and Production Apr 27 2022 This book features selected papers presented at The International Science and Technology Conference "FarEastCon", which took place on October 2-4, 2018 in Vladivostok, Russian Federation. The conference represents an informational platform for accumulating expert opinion on projects and initiatives aimed at the implementation of farsighted scientific research and development; it also allows scientific and practical achievements to be shared with a wide circle of researchers. Sections of the conference are of interest for the broad range of experts involved in developing innovative solutions and organizing events that increase the efficiency of economic and innovative activities.

Enhancing Computer Security with Smart Technology May 17 2021 Divided into two major parts, Enhancing Computer Security with Smart Technology introduces the problems of computer security to researchers with a machine learning background, then introduces machine learning concepts to computer security professionals. Realizing the massive scope of these subjects, the author concentrates on problems related to the detection of intrusions through the application of machine learning methods and on the practical algorithmic aspects of machine learning and its role in security. A collection of tutorials that draw from a broad spectrum of viewpoints and experience, this volume is made up of chapters written by specialists in each subject field. It is accessible to any professional with a basic background in computer science. Following an introduction to the issue of cyber-security and cyber-trust, the book offers a broad survey of the state-of-the-art in firewall technology and of the importance of Web application security. The remainder of the book focuses on the use of machine learning methods and tools and their performance.

Information and Software Technologies Aug 27 2019 This book constitutes the refereed proceedings of the 23rd International Conference on Information and Software Technologies, ICIST 2017, held in Druskininkai, Lithuania, in October 2017. The 51 papers presented were carefully reviewed and selected from 135 submissions. The papers are organized in topical sections on information systems; business intelligence for

information and software systems; software engineering; information technology applications.

Green and Smart Technologies for Smart Cities Apr 15 2021 The book starts with an overview of the role of cities in climate change and environmental pollution worldwide, followed by the concept description of smart cities and their expected features, focusing on green technology innovation. This book explores the energy management strategies required to minimize the need for huge investments in high-capacity transmission lines from distant power plants. A new range of renewable energy technologies modified for installation in cities like small wind turbines, micro-CHP and heat pumps are described. The overall objective of this book is to explore all the green and smart technologies for designing green smart cities.

Green and Intelligent Technologies for Sustainable and Smart Asphalt Pavements Aug 08 2020 Green and Intelligent Technologies for Sustainable and Smart Asphalt Pavements contains 124 papers from 14 different countries which were presented at the 5th International Symposium on Frontiers of Road and Airport Engineering (IFRAE 2021, Delft, the Netherlands, 12-14 July 2021). The contributions focus on research in the areas of "Circular, Sustainable and Smart Airport and Highway Pavement" and collects the state-of-the-art and state-of-practice areas of long-life and circular materials for sustainable, cost-effective smart airport and highway pavement design and construction. The main areas covered by the book include: • Green and sustainable pavement materials • Recycling technology • Warm & cold mix asphalt materials • Functional pavement design • Self-healing pavement materials • Eco-efficiency pavement materials • Pavement preservation, maintenance and rehabilitation • Smart pavement materials and structures • Safety technology for smart roads • Pavement monitoring and big data analysis • Role of transportation engineering in future pavements Green and Intelligent Technologies for Sustainable and Smart Asphalt Pavements aims at researchers, practitioners, and administrators interested in new materials and innovative technologies for achieving sustainable and renewable pavement materials and design methods, and for those involved or working in the broader field of pavement engineering.

Smart Technologies for Energy and Environmental Sustainability Sep 20 2021 As the application of smart technologies for monitoring environmental activities becomes more widespread, there is a growing demand for solutions that can help analyze the risk factors and impacts on the environment by focusing on energy consumption, storage, and management. This book is designed to serve as a knowledge-sharing platform, focusing on the emerging models, architectures, and algorithms being developed for smart computational technologies that can lead to efficient energy conservation and environmental sustainability.

The Engineering Handbook of Smart Technology for Aging, Disability, and Independence Jul 31 2022 An advanced look at smart technology to promote the independence of the elderly and disabled Ongoing research and advancements in technology are essential for the continuing independence of elderly and disabled persons. The Engineering Handbook of Smart Technology for Aging, Disability, and Independence provides a thorough analysis of these technologies and the needs of the elderly and disabled, including a breakdown of demographics, government spending, growth rate, and much more. Each chapter is written by an expert in his or her respective field, and gives readers unparalleled insight into the research and developments in a multitude of important areas, including: User-need analyses, classifications, and policies Assistive devices and systems for people with motor disabilities Assistive devices and systems for people with visual and hearing impairments Human-machine interaction and virtual reality Assistive robotics Technology for user mobility and object manipulation Smart homes as assistant environments A discussion of emerging standards and guidelines to build accessible devices, tools, and environments This book is an indispensable resource for researchers and professionals in computer science, rehabilitation science, and clinical engineering. It also serves as a valuable textbook for graduate students in the aforementioned fields.

Digital Transformation in Accounting Oct 29 2019 Digital Transformation in Accounting is a critical guidebook for accountancy and digital business students and practitioners to navigate the effects of digital technology advancements, digital disruption, and digital transformation on the accounting profession. Drawing on the latest research, this book: Unpacks dozens of digital technology advancements, explaining what they are and how they could be used to improve accounting practice. Discusses the impact of digital disruption and digital transformation on different accounting functions, roles, and activities. Integrates traditional accounting information systems concepts and contemporary digital business and digital transformation concepts. Includes a rich array of real-world case studies, simulated problems, quizzes, group and individual exercises, as well as supplementary electronic resources. Provides a framework and a set of tools to prepare the future accounting workforce for the era of digital disruption. This book is an invaluable resource for students on accounting, accounting information systems, and digital business courses, as well as for accountants, accounting educators, and accreditation / advocacy bodies.

Biomedical Applications of Smart Technologies Jan 13 2021 The 16 peer-reviewed papers collected here together offer a plenitude of up-to-date information on [Biomedical Applications of Smart Technologies]. Volume is indexed by Thomson Reuters CPCI-S (WoS). The papers are conveniently arranged into: Chapter 1: Active and Stimuli Responsive Materials, Chapter 2: Medical Diagnostics and Imaging, Chapter 3: Tissue Engineering and Regenerative Medicine, Chapter 4: Targeted Drug and Gene Delivery.

"Smart Technologies" for Society, State and Economy Mar 27 2022 This proceedings book presents a comprehensive view of "smart" technologies and perspectives of their application in various areas of economic activity. The authors of the book combined the results of the cutting-edge research on the topic of "smart" technologies in the digital economy and Industry 4.0 and developed a unified scientific concept. The current experience has been considered, and the prospects for the application of "smart" technologies in society to promote social advance have been identified. "Smart" technologies in public administration and law, as well as the experience in development of e-government, have been examined. "Smart" technologies in business activity have been studied, and the transition from digital business to business 4.0 has been justified. The book contains the collection of the best works following the results of the 13th International Research-to-Practice Conference "Smart Technologies" for society, state and economy which was run by the Institute of Scientific Communications (ISC) and was held on July 2-3, 2020. The target audience of this book includes researchers investigating fundamental and applied problems of development of "smart" technologies, as well as concerned parties outside the academic community, in particular, representatives of the digital society, high-tech business entities and officials regulating the digital economy and Industry 4.0.

The Routledge Handbook of Smart Technologies Nov 03 2022 This Handbook provides a thorough discussion of the most recent wave of technological (and organisational) innovations, frequently called "smart" and based on the digitisation of information. The acronym stands for "Self-Monitoring, Analysis and Reporting Technology". This new wave is one in a row of waves that have shaken up and transformed the economy, society and culture since the first Industrial Revolution and have left a huge impact on how we live, think, communicate and work: they have deeply affected the socioeconomic metabolism from within and humankind's footprint on our planet. The Handbook analyses the origins of the current wave, its roots in earlier ones and its path-dependent nature; its current forms and actual manifestations; its multifarious impact on economy and society; and it puts forward some guesstimates regarding the probable directions of its further development. In short, the Handbook studies the past, the present and the future of smart technologies and digitalisation. This cutting-edge reference will appeal to a broad audience, including but not limited to, researchers from various disciplines with a focus on technological innovation and their impact on the socioeconomic system; students across different fields but especially from economics, social sciences and law studying questions related to radical technological change and its consequences, as well as professionals around the globe interested in the debate of smart technologies and socioeconomic transformation, from a multi- and interdisciplinary perspective.

Intelligent Communication Technologies and Virtual Mobile Networks Jun 25 2019 The book is a collection of high-quality research papers presented at Intelligent Communication Technologies and Virtual Mobile Networks (ICICV), held at Francis Xavier Engineering College, Tirunelveli, Tamil Nadu, India, during February 10-11, 2022. The book shares knowledge and results in theory, methodology and applications of communication technology and mobile networks. The book covers innovative and cutting-edge work of researchers, developers and practitioners from academia and industry working in the area of computer networks, network protocols and wireless networks, data communication technologies and network security.

Science Teachers' Use of Visual Representations Sep 28 2019 This book examines the diverse use of visual representations by teachers in the science classroom. It contains unique pedagogies related to the use of visualization, presents original curriculum materials as well as explores future possibilities. The book begins by looking at the significance of visual representations in the teaching of science. It then goes on to detail two recent innovations in the field: simulations and slowmation, a process of explicit visualization. It also evaluates the way teachers have used different diagrams to illustrate concepts in biology and chemistry. Next, the book explores the use of visual representations in culturally diverse classrooms, including the implication of culture for teachers' use of representations, the crucial importance of language in the design and use of visualizations and visualizations in popular books about chemistry. It also shows the place of visualizations in the growing use of informal, self-directed science education. Overall, the book concludes that if the potential of visualizations in science education is to be realized in the future, the subject must be included in both pre-service and in-service teacher education. It explores ways to develop science teachers' representational competence and details the impact that this will have on their teaching. The worldwide trend towards providing science education for all, coupled with the increased availability of color printing, access to personal computers and projection facilities, has led to a more extensive and diverse use of visual representations in the classroom. This book offers unique insights into the relationship between visual representations and science education, making it an ideal resource for educators as well as researchers in science education, visualization and pedagogy.

Smart Technology Trends in Industrial and Business Management Dec 24 2021 This book presents current developments in smart city research and application regarding the management of manufacturing systems, Industry 4.0, transportation, and business management. It suggests approaches to incorporating smart city innovations into manufacturing systems, with an eye towards competitiveness in a global environment. The same pro-innovative approach is then applied to business and cooperation management. The authors also present smart city transportation solutions including vehicle data processing/reporting system, mobile application for fleet managers, bus drivers, bus passengers and special applications for smart city buses like passenger counting system, IP cameras, GPS system etc. The goal of the book is to establish channels of communication and disseminate knowledge among researchers and professionals working on smart city research and application. Features contributions on a variety of topics related to smart cities from global researchers and professionals in a wide range of sectors; Presents topics relating to smart cities such as manufacturing, business, and transportation; Includes expanded selected papers from EAI International Conference on Management of Manufacturing Systems (MMS 2016), EAI Industry of Things and Future Technologies Conference - Mobility IoT 2016 and International Conference on Smart Electric Vehicles and Vehicular Ad-hoc NETWORKS (SEVNET).

Smart Manufacturing Nov 22 2021 Explore the dramatic changes brought on by the new manufacturing technologies of Industry 4.0 In *Smart Manufacturing, The Lean Six Sigma Way*, Dr. Anthony Tarantino delivers an insightful and eye-opening exploration of the ways the Fourth Industrial Revolution is dramatically changing the way we manufacture products across the world and especially how it will revitalize manufacturing in North America and Europe. The author examines the role and impact of a variety of new Smart technologies including industrial IoT, computer vision, mobile/edge computing, 3D printing, robots, big data analytics, and the cloud. He demonstrates how to apply these new technologies to over 20 continuous improvement/Lean Six Sigma tools, greatly enhancing their effectiveness and ease of use. The book also discusses the role Smart technologies will play in improving: Career opportunities for women in manufacturing Cyber security, supply chain risk, and logistics resiliency Workplace health, safety, and security Life on the manufacturing floor Operational efficiencies and customer satisfaction Perfect for anyone involved in the manufacturing or distribution of products in the 21st century, *Smart Manufacturing, The Lean Six Sigma Way* belongs in the libraries of anyone interested in the intersection of technology, commerce, and physical manufacturing.

Marketing and Smart Technologies Sep 01 2022 This book includes selected papers presented at the International Conference on Marketing and Technologies (ICMarkTech 2021), held at University of La Laguna, Tenerife, Spain, during December 2-4, 2021. It covers up-to-date cutting-edge research on artificial intelligence applied in marketing, virtual and augmented reality in marketing, business intelligence databases and marketing, data mining and big data, marketing data science, web marketing, e-commerce and v-commerce, social media and networking, geomarketing and IoT, marketing automation and inbound marketing, machine learning applied to marketing, customer data management and CRM, and neuromarketing technologies.

Smart Technologies for Smart Cities Oct 22 2021 This book provides a scholarly forum for researchers both in academia and industry from a wide range of application areas of smart cities and smart technologies to share their research findings. This book presents contributions on emerging approaches and case studies including future technological trends and challenges. This book is intended for researchers and companies in several areas such as transportation, computer science, and electrical engineering, among others. The book is composed of extended versions of selected papers from the 1st International Conference on Smart Cities and Smart Technologies (MIC-Smart 2019), 7-9 June 2019 Istanbul Turkey. Presents research from a wide range of application areas into smart cities and smart technologies; Includes topics such as smart devices, smart grid, and smart transportation and vehicles; Composed of extended versions of selected papers from the 1st International Conference on Smart Cities and Smart Technologies (MIC-Smart 2019).

Smart Technologies for Energy, Environment and Sustainable Development, Vol 2 Aug 20 2021 This book contains select proceedings of the International Conference on Smart Technologies for Energy, Environment, and Sustainable Development (ICSTEESD 2020). The book is broadly divided into the themes of energy, environment, and sustainable development; and discusses the significance and solicitations of intelligent technologies in the domain of energy and environmental systems engineering. Topics covered in this book include sustainable energy systems including renewable technologies, energy efficiency, techno-economics of energy system and policies, integrated energy system planning, environmental management, energy efficient buildings and communities, sustainable transportation, smart manufacturing processes, etc. The book will be a valuable reference for young researchers, professionals, and policy makers working in the areas of energy, environment and sustainable development.