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Industry 4.0 Technologies for Business Excellence Springer Nature

This open access collection examines how higher education responds to the demands of the automation economy and the fourth industrial revolution. Considering significant trends in how people are learning, coupled with the ways in which different higher education institutions and education stakeholders are implementing adaptations, it looks at new programs and technological advances that are changing how and why we teach and learn. The book addresses trends in liberal arts integration of STEM innovations, the changing role of libraries in the digital age, global trends in youth mobility, and the development of lifelong learning programs. This is coupled with case study assessments of the various ways China, Singapore, South Africa and Costa Rica are preparing their populations for significant shifts in labour market demands – shifts that are already underway. Offering examples of new frameworks in which collaboration between government, industry, and higher education institutions can prevent lagging behind in this fast changing environment, this book is a key read for anyone wanting to understand how the world should respond to the radical technological shifts underway on the frontline of higher education.

Advances in Mathematics for Industry 4.0 BoD – Books on Demand

The industrial model is changing at a vertigo speed and in this book we discover the most innovative technology that makes it possible with the aim that students and new professionals can enrich their knowledge and contribute innovative ideas to their future business. With the reading of this book, written in a language understandable to non-specialists, we will get to know the technology that makes possible the fourth Industrial Revolution, the changes it will generate and the benefits of its application. IoT, AGV, RFID, RTLS, Additive Manufacturing, Collaborative Robots, PLM, Digital Twin, CPS, etc. ... are some KETs (key enabling technologies) that we are going to show you.

Agile Approaches for Successfully Managing and Executing

Projects in the Fourth Industrial Revolution Nova Science Publishers

This open access book explores the concept of Industry 4.0, which presents a considerable challenge for the production and service sectors. While digitization initiatives are usually integrated into the central corporate strategy of larger companies, smaller firms often have problems putting Industry 4.0 paradigms into practice. Small and medium-sized enterprises (SMEs) possess neither the human nor financial resources to systematically investigate the potential and risks of introducing Industry 4.0. Addressing this obstacle, the international team of authors focuses on the development of smart manufacturing concepts, logistics solutions and managerial models specifically for SMEs. Aiming to provide methodological frameworks and pilot solutions for SMEs during their digital transformation, this innovative and timely book will be of great use to scholars researching technology management, digitization and small business, as well as practitioners within manufacturing companies.

Procurement 4.0 and the Fourth Industrial Revolution Springer Nature

This book will serve as an Industry 4.0 reference, guide, and engaging story for all those interested in the ASEAN regions promising manufacturing sectors. A gold mine of information for industrial engineers and business practitioners in ASEAN, as well as those with business and investment interests in the region. From students to national strategists, *Industry 4.0: Navigating the Manufacturing Revolution in ASEAN* is an essential guide to digital transformation. Industry 4.0 offers almost limitless opportunities but also serious challenges, for the various stakeholders in each of the diverse ASEAN markets. This book disseminates the fourth industrial revolution, explores the vast scope of Industry 4.0, and brings together two of the region's leading experts to guide readers through best practice and help them achieve their professional goals.

Industry 4.0 Apress

Computational Intelligence Assisted Design framework mobilises computational resources, makes use of multiple Computational Intelligence (CI) algorithms and reduces computational costs. This book provides examples of real-world applications of technology.

Case studies have been used to show the integration of services, cloud, big data technology and space missions. It focuses on computational modelling of biological and natural intelligent systems, encompassing swarm intelligence, fuzzy systems, artificial neural networks, artificial immune systems and evolutionary computation. This book provides readers with wide-scale information on CI paradigms and algorithms, inviting readers to implement and problem solve real-world, complex problems within the CI development framework. This implementation framework will enable readers to tackle new problems without difficulty through a few tested MATLAB source codes

Industry 4.0: Industrial Revolution of the 21st Century Springer

The objective of this book is to support readers facing the urgency, challenges, analysis, and methodologies to reconfiguration. It presents a comprehensive framework for reconfiguring manufacturing enterprises and provides a set of valuable conceptual frameworks and methodologies for analyzing, evaluating, and assessing reconfiguration indices. This book offers practical guidance for implementing the Fourth Industrial Revolution (Industry 4.0). It presents open-ended problems pertaining to the concepts covered in the book and provides a new approach for reconfiguring industrial systems. Not only is this book for industrialists and academics, it will also appeal to undergraduate and graduate students studying industrial, mechanical, and manufacturing engineering. Scholars and practitioners in operations management will also find this book of interest.

Data Analytics BoD – Books on Demand

Large data sets arriving at every increasing speeds require a new set of efficient data analysis techniques. Data analytics are becoming an essential component for every organization and technologies such as health care, financial trading, Internet of Things, Smart Cities or Cyber Physical Systems. However, these diverse application domains give rise to new research challenges. In this context, the book provides a broad picture on the concepts, techniques, applications, and open research directions in this area. In addition, it serves as a single source of reference

for acquiring the knowledge on emerging Big Data Analytics technologies.

Industry 4.0 UNESCO Publishing

The book shows how simulations long history and close ties to industry since the third industrial revolution have led to its growing importance in Industry 4.0. The book emphasises the role of simulation in the new industrial revolution, and its application as a key aspect of making Industry 4.0 a reality - and thus achieving the complete digitisation of manufacturing and business. It presents various perspectives on simulation and demonstrates its applications, from augmented or virtual reality to process engineering, and from quantum computing to intelligent management. Simulation for Industry 4.0 is a guide and milestone for the simulation community, as well as those readers working to achieve the goals of Industry 4.0. The connections between simulation and Industry 4.0 drawn here will be of interest not only to beginners, but also to practitioners and researchers as a point of departure in the subject, and as a guide for new lines of study.

Industry 4.0 and Circular Economy Walter de Gruyter GmbH & Co KG

World-renowned economist Klaus Schwab, Founder and Executive Chairman of the World Economic Forum, explains that we have an opportunity to shape the fourth industrial revolution, which will fundamentally alter how we live and work. Schwab argues that this revolution is different in scale, scope and complexity from any that have come before. Characterized by a range of new technologies that are fusing the physical, digital and biological worlds, the developments are affecting all disciplines, economies, industries and governments, and even challenging ideas about what it means to be human. Artificial intelligence is already all around us, from supercomputers, drones and virtual assistants to 3D printing, DNA sequencing, smart thermostats, wearable sensors and microchips smaller than a grain of sand. But this is just the beginning: nanomaterials 200 times stronger than steel and a million times thinner than a strand of hair and the first transplant of a 3D printed liver are already in development. Imagine "smart factories" in which global systems of manufacturing are coordinated virtually, or implantable mobile phones made of biosynthetic materials. The fourth industrial revolution, says Schwab, is more significant, and its ramifications more

profound, than in any prior period of human history. He outlines the key technologies driving this revolution and discusses the major impacts expected on government, business, civil society and individuals. Schwab also offers bold ideas on how to harness these changes and shape a better future—one in which technology empowers people rather than replaces them; progress serves society rather than disrupts it; and in which innovators respect moral and ethical boundaries rather than cross them. We all have the opportunity to contribute to developing new frameworks that advance progress.

Industry 4.0 CRC Press

The Fourth Industrial Revolution Currency

OECD Publishing

Advances in Mathematics for Industry 4.0 examines key tools, techniques, strategies, and methods in engineering applications. By covering the latest knowledge in technology for engineering design and manufacture, chapters provide systematic and comprehensive coverage of key drivers in rapid economic development. Written by leading industry experts, chapter authors explore managing big data in processing information and helping in decision-making, including mathematical and optimization techniques for dealing with large amounts of data in short periods. Focuses on recent research in mathematics applications for Industry 4.0 Provides insights on international and transnational scales Identifies mathematics knowledge gaps for Industry 4.0 Describes fruitful areas for further research in industrial mathematics, including forthcoming international studies and research

Industry 4.0 CRC Press

A digital manufacturer's guide to gaining a tech advantage and taking a commercial lead with Industry 4.0 Manufacturing is in the midst of a revolution. Whole supply chains are becoming visible. Innovation is speeding up and becoming more open. Data is being shared and value is being created in real time. Potentially, performance can be transformed and new markets created, either by existing players or disruptive ventures. For all the excitement of the Fourth Industrial Revolution or Industry 4.0, the risks are too often overlooked. Like other digital markets, value can just flow to the top, leading everyone else to struggle as commodities. Manufacturers can adopt all the technologies, but still find themselves falling back, as many now are. Their challenge is to

start playing by the new digital rules and capture the value in their performance. This book, written by a leading expert and practitioner in Industry 4.0, gives those on the manufacturing frontline a set of tools, templates and guidelines to start gaining a technology advantage and taking a commercial lead. Based on a comprehensive review of how manufacturing contracts are currently being written and negotiated, it highlights the questions for manufacturers to ask and reviews their options for managing innovation, designing business models, managing intellectual property and gaining a lasting source of competitive advantage. COMMENTS 'Essential reading for anyone embarking on an Industry 4.0 transformation', Brian Reilly, head of business development, Flags Software. 'A compelling book that offers intelligence and practical tools for creating new value chains from the Industry 4.0 eco-system', Deepak Farmah, head of industrial innovation, Coventry University. 'A valuable read that signposts how you and your team can make the right decisions at the right time', Christopher Greenough, chief commercial officer, SDE Technology. 'Recommended for young engineers looking to get ahead of the curve in manufacturing', Babak Jahanbani, managing director, Festo Didactic. CONTENTS (1) The fourth industrial revolution (2) Defining characteristics of Industry 4.0 (3) Transforming digital value (4) The human dimension of Industry 4.0 (5) Competitive Industry 4.0 (6) Innovation models (7) Appropriability regimes (8) Connecting value chains (9) Four cases of appropriability (10) Gains and losses (11) Your Industry 4.0 project (12) IP in the value chain (13) Managing IP for Industry 4.0 (14) Managing valuable assets (15) Protecting IP in value chains (16) A model to profit from Industry 4.0

Industry 4.0 John Wiley & Sons

This two-volume set constitutes the proceedings of the 19th IFIP WG 6.11 Conference on e-Business, e-Services, and e-Society, I3E 2020, held in Skukuza, South Africa, in April 2020.* The total of 80 full and 7 short papers presented in these volumes were carefully reviewed and selected from 191 submissions. The papers are organized in the following topical sections: Part I: block chain; fourth industrial revolution; eBusiness; business processes; big data and machine learning; and ICT and education Part II: eGovernment; eHealth; security; social media; knowledge and knowledge management; ICT and gender equality and development; information systems for governance; and user

experience and usability *Due to the global COVID-19 pandemic and the consequential worldwide imposed travel restrictions and lockdown, the I3E 2020 conference event scheduled to take place in Skukuza, South Africa, was unfortunately cancelled.

[The Future of Productivity](#) Springer

This book will serve as an Industry 4.0 reference, guide, and engaging story for all those interested in the ASEAN regions promising manufacturing sectors. A gold mine of information for industrial engineers and business practitioners in ASEAN, as well as those with business and investment interests in the region. From students to national strategists, Industry 4.0: Navigating the Manufacturing in ASEAN is an essential guide to digital transformation. Industry 4.0 offers almost limitless opportunities but also serious challenges, for the various stakeholders in each of the diverse ASEAN markets. This book disseminates the fourth industrial revolution, explores the vast scope of Industry 4.0, and brings together two of the region's leading experts to guide readers through best practice and help them achieve their professional goals.

[Computational Intelligence Assisted Design](#) John Wiley & Sons

"Industry 4.0 will disrupt and change how we produce, do business, and live our lives. Related to manufacturing, the way products are produced will change radically not only within a company but also across companies. So, like any other revolution, the fourth industrial revolution will also produce winners and losers. Occupations, companies, and industries will die whereas new ones will emerge. So, companies need to adapt properly to those new technologies in order not to be pushed out of business. This book makes a contribution to understand the developments related to Industry 4.0. Experienced and well-established authors came together to shed light on different but complementary topics to offer a holistic view on Industry 4.0. Here, the Industry 4.0 ecosystem, implications of Industry 4.0 on human workforce, technical challenges and application examples are addressed"--

Industry 4.0 CRC Press

We are living in the middle of a Fourth Industrial Revolution, with new technology leading to dramatic shifts in everything from

manufacturing to supply chain logistics. In a lively, developing field of academic, procurement is often neglected. Despite this, procurement plays a vital role, connecting the organization with its ecosystem. At a time of change and economic crisis, a new business model is called for, which this book aims to define.

Based on the applications of Industry 4.0 concepts to procurement, this book describes Procurement 4.0 as a method and a set of tools, helping businesses to improve the value of their products, reduce waste, become more flexible, and address the business needs of the future. It will appeal to academics in the area, as well as practitioners.

[Responsible Design, Implementation and Use of Information and Communication Technology](#) Academic Press

The purpose of this book is to provide an overview of the new industrial revolution: the "Industry 4.0." Globalization and competitiveness are forcing companies to review and improve their production processes. Industry 4.0 is a revolution that involves many different sectors and is still evolving. It represents the integration of tools already used in the past (big data, cloud, robot, 3D printing, simulation, etc.) that are now connected to a smart network by transmitting digital data at high speeds. The implementation of a 4.0 system represents a huge change for companies, which are faced with big investments. The idea of the book is to present practices, challenges, and opportunities related to the Industry 4.0. This book is intended to be a useful resource for anyone who deals with this issue.

[Industry 4.0 for SMEs](#) The Fourth Industrial Revolution

This book addresses the rising productivity gap between the global frontier and other firms, and identifies a number of structural impediments constraining business start-ups, knowledge diffusion and resource allocation (such as barriers to up-scaling and relatively high rates of skill mismatch).

[Industry 4.0 and Regional Transformations](#) Springer Nature

With the rapid changes in technology that characterize the Fourth Industrial Revolution comes social evolution and the potential for future social crises. Understanding Industry 4.0 looks to determine the most probable oncoming changes and highlight the

most important professions of the future.

[Transforming the Next Generation Leaders](#) Emerald Group Publishing

How the marriage of Industry 4.0 and the Circular Economy can radically transform waste management—and our world Do we really have to make a choice between a wasteless and nonproductive world or a wasteful and ultimately self-destructive one? Futurist and world-renowned waste management scientist Antonis Mavropoulos and sustainable business developer and digital strategist Anders Nilsen respond with a ringing and optimistic "No!" They explore the Earth-changing potential of a happy (and wasteless) marriage between Industry 4.0 and a Circular Economy that could—with properly reshaped waste management practices—deliver transformative environmental, health, and societal benefits. This book is about the possibility of a brand-new world and the challenges to achieve it. The fourth industrial revolution has given us innovations including robotics, artificial intelligence, 3D-printing, and biotech. By using these technologies to advance the Circular Economy—where industry produces more durable materials and runs on its own byproducts—the waste management industry will become a central element of a more sustainable world and can ensure its own, but well beyond business as usual, future. Mavropoulos and Nilsen look at how this can be achieved—a wasteless world will require more waste management—and examine obstacles and opportunities such as demographics, urbanization, global warming, and the environmental strain caused by the rise of the global middle class. · Explore the new prevention, reduction, and elimination methods transforming waste management · Comprehend and capitalize on the business implications for the sector · Understand the theory via practical examples and case studies · Appreciate the social benefits of the new approach Waste-management has always been vital for the protection of health and the environment. Now it can become a crucial role model in showing how Industry 4.0 and the Circular Economy can converge to ensure flourishing, sustainable—and much brighter—future.

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