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LYDIA EMILIO

Tourism and Hospitality for Sustainable Development IOS Press

In the modern world, highly repetitive and tiresome tasks are being delegated

to machines. The demand for industrial robots is growing not only because of the need to improve production efficiency and the quality of the end products, but also due to rising employment costs and a shortage of skilled professionals. The industrial robot

market is projected to grow by 16% year-on-year in the immediate future. The industry's progressing automation is increasing the demand for specialists who can operate robots. If you would like to join this sought-after and well-paid professional group, it's time to learn how to operate and program robots using modern methods. This book provides all the information you will need to enter the industry without spending money on training or looking for someone willing to introduce you to the world of robotics. You will learn about all aspects of programming and implementing robots in a company. The book consists of four parts: general introduction to robotics for non-technical people; part two describes industry robotisation; part three depicts the principles and methods of

programming robots; the final part touches upon the safety of industrial robots and cobots. Are you a student of a technical faculty, or even a manager of a plant who would like to robotise production? If you are interested in this subject, you won't find a better book! Generation AI Katerina Thomas Towards a Better Port Industry provides professionals in freight transport and maritime logistics, and specifically the port industry, as well as students in these fields, with a better conceptual understanding of the port industry. It includes key insights and best practices for port management and development, and an overview of new trends and developments relevant for developing winning strategies. After an introduction, Chapter 2 offers a new perspective on

port governance, in which public interests, corporatization, state-ownership, and shareholder policies take a central role. Chapter 3 explains how new trends and developments affect port development and argues that assuming ‘business as usual’ often leads to major port development mistakes. Chapter 4 deals with port development and discusses all major port development challenges, including granting concessions, developing a port vision, crafting stakeholder support, choosing port performance indicators and creating a port innovation system. The final chapter deals with port development strategies and includes themes such as strategies of port development companies, pricing and business development. This book will

broaden professionals’ conceptual understanding of the ports industry, and provide insights on the latest developments in this area. For students, this book provides an industry-focused and non-technical ‘essential reading’ for gaining a deep understanding of the ports industry.

Urban Sustainability and Energy Management of Cities for Improved Health and Well-Being One Billion Knowledgeable

The chapters in this volume explore, engage and expand on the key thinkers and ideas of the Austrian, Virginia, and Bloomington schools of political economy. The book emphasizes the continuing relevance of the contributions of these schools of thought to our understanding of cultural, social, moral

and historical processes for interdisciplinary research in the social sciences and humanities. An analysis of human action that deliberately divorces it from cultural, social, moral and historical processes will (at least) limit and (at worst) distort our understanding of human phenomena. The diversity in topics and approaches will make the volume of interest to readers in a variety of fields, including: anthropology, communications, East Asian languages & literature, economics, law, musicology, philosophy, and political science.

China's Long March of Modernisation

Springer Nature

Robots: A Reference Handbook differs from most other books on robotics in the variety of resources that it provides to readers of all ages. Robots: A Reference

Handbook teaches readers about a wide variety of robots. It opens with a history of robotics, dating to ancient Greece and Rome, at which time an impressive array of automata were invented for entertainment, religious, and instructional purposes. It follows the development of automata and robots in ancient China and the Islamic world, through to Western Civilization in the present day. Subsequent chapters describe the wide array of applications to which robots are put today and discuss the technical, social, political, ethical, and economic issues created by their increasing use. Additionally, a number of essays by interested individuals highlight various aspects of robotics development. The remaining chapters of the book provide resources

that will assist readers in learning more about the topic of robotics.

Industrial Revolution 4.0 Springer
Nature

This book provides a holistic approach to understand the challenges and opportunities related to the planning and management of sustainable development in tourism. The editors present a collection of empirical studies, best-practice cases, and theoretical discussions to draw insights on the economic, social, environmental, and political dimensions of sustainability. Specifically, using a range of case studies examining sustainability applications within various tourism industry sectors as well as different geographical regions, this book is of value to tourism policymakers,

practitioners, academicians, and students, encouraging them to develop proactive behavior. This publication represents an up-to-date, innovative guide in helping readers understand the challenges facing sustainable tourism development and implementation as well as the potential opportunities for both developed and developing nations in pursuing sustainability goals in their tourism plans.

A World Beyond Work? IGI Global
The third edition of this textbook comprehensively discusses global supply chain and operations management (SCOM), combining value creation networks and interacting processes. It focuses on operational roles within networks and presents the quantitative and organizational methods needed to

plan and control the material, information, and financial flows in supply chains. Each chapter begins with an introductory case study, while numerous examples from various industries and services help to illustrate the key concepts. The book explains how to design operations and supply networks and how to incorporate suppliers and customers. It examines how to balance supply and demand, a core aspect of tactical planning, before turning to the allocation of resources to meet customer needs. In addition, the book presents state-of-the-art research reflecting the lessons learned from the COVID-19 pandemic, and emerging, fast-paced developments in the digitalization of supply chain and operations management. Providing readers with a

working knowledge of global supply chain and operations management, with a focus on bridging the gap between theory and practice, this textbook can be used in core, specialized, and advanced classes alike. It is intended for a broad range of students and professionals in supply chain and operations management.

[Advanced Technologies, Systems, and Applications II](#) Springer Nature

MCC Centre for Next Technological Futures Studies on Innovation, Technologies and Regions, Volume 1 As cyberpunk writer William Gibson famously said, “The future is already here—it’s just not evenly distributed.” This ironic statement is particularly relevant when we look at the map of innovation and entrepreneurial

ecosystems in Europe, where we can easily see deep regional imbalances. But while the future of technology is nearly impossible to predict, it could be discovered by those companies—the startups whose basic working method is trial and error. In addition, the current deafening hype around artificial intelligence is also reigniting the debate about robots and their impact on our economy and society. And these are the main reasons this book is about startups and robots. The studies conducted at the Centre for Next Technological Futures, Mathias Corvinus Collegium, Budapest, raise questions such as: How does geographic proximity to venture capital affect startups at different stages of development? While startups in Europe are concentrated in a handful of large

cities, what opportunities do smaller cities have that specialise in Industry 4.0? What factors influence the use of industrial robots in different European countries, and how does the story of industrial robots differ from the emerging new story of robots in the service sector? Incubators and accelerators can increase the chances of survival of startups, but are those institutions that only chase a quick return on investment really the most successful? CONTRIBUTORS: Borbála Brosig Zoltán Cséfalvay Csaba Kristóf Johanyák Viktor Lázár Csikó Bálint Pálfai Orsolya Székely Zoltán Szombathy Máté Ujvárosi
Digital Business Strategies in Blockchain Ecosystems Edward Elgar Publishing

Cognitive Hyperconnected Digital Transformation provides an overview of the current Internet of Things (IoT) landscape, ranging from research, innovation and development priorities to enabling technologies in a global context. It is intended as a standalone book in a series that covers the Internet of Things activities of the IERC-Internet of Things European Research Cluster, including both research and technological innovation, validation and deployment. The book builds on the ideas put forward by the European Research Cluster, the IoT European Platform Initiative (IoT-EPI) and the IoT European Large-Scale Pilots Programme, presenting global views and state-of-the-art results regarding the challenges facing IoT research, innovation,

development and deployment in the next years. Hyperconnected environments integrating industrial/business/consumer IoT technologies and applications require new IoT open systems architectures integrated with network architecture (a knowledge-centric network for IoT), IoT system design and open, horizontal and interoperable platforms managing things that are digital, automated and connected and that function in real-time with remote access and control based on Internet-enabled tools. The IoT is bridging the physical world with the virtual world by combining augmented reality (AR), virtual reality (VR), machine learning and artificial intelligence (AI) to support the physical-digital integrations in the Internet of mobile things based on

sensors/actuators, communication, analytics technologies, cyber-physical systems, software, cognitive systems and IoT platforms with multiple functionalities. These IoT systems have the potential to understand, learn, predict, adapt and operate autonomously. They can change future behaviour, while the combination of extensive parallel processing power, advanced algorithms and data sets feed the cognitive algorithms that allow the IoT systems to develop new services and propose new solutions. IoT technologies are moving into the industrial space and enhancing traditional industrial platforms with solutions that break free of device-, operating system- and protocol-dependency. Secure edge computing solutions replace local

networks, web services replace software, and devices with networked programmable logic controllers (NPLCs) based on Internet protocols replace devices that use proprietary protocols. Information captured by edge devices on the factory floor is secure and accessible from any location in real time, opening the communication gateway both vertically (connecting machines across the factory and enabling the instant availability of data to stakeholders within operational silos) and horizontally (with one framework for the entire supply chain, across departments, business units, global factory locations and other markets). End-to-end security and privacy solutions in IoT space require agile, context-aware and scalable components with mechanisms that are

both fluid and adaptive. The convergence of IT (information technology) and OT (operational technology) makes security and privacy by default a new important element where security is addressed at the architecture level, across applications and domains, using multi-layered distributed security measures. Blockchain is transforming industry operating models by adding trust to untrusted environments, providing distributed security mechanisms and transparent access to the information in the chain. Digital technology platforms are evolving, with IoT platforms integrating complex information systems, customer experience, analytics and intelligence to enable new capabilities and business models for

digital business.

New Horizons in Artificial Intelligence in Libraries Springer

Utilizando el formato de preguntas y respuestas, Phil Husbands nos introduce a la situación actual de los robots, la robótica y la inteligencia artificial (IA). Analizando sus orígenes y hacia dónde podría ir en el futuro, este libro explora la historia de los robots y su compleja relación con la cultura popular, la tecnología subyacente, lo que pueden hacer ahora y lo que podrían ser capaces de hacer en el futuro. ¿Los robots representan una amenaza o una oportunidad sin precedentes? Husbands considera tanto los problemas éticos como los desafíos sociopolíticos que los robots ya están creando y elabora una guía práctica para conocer más sobre

una tecnología que habita y modela nuestra forma de vida actual. "Husbands nos brinda una introducción históricamente informada a la robótica, centrada en la realidad tecnológica y descartando las exageraciones futuristas". Simon Balle, Metascience **Robots** Walter de Gruyter GmbH & Co KG

This book features papers focusing on the implementation of new and future technologies, which were presented at the International Conference on New Technologies, Development and Application, held at the Academy of Science and Arts of Bosnia and Herzegovina in Sarajevo on 22-24 June 2023. It covers a wide range of future technologies and technical disciplines, including complex systems such as

Industry 4.0; patents in industry 4.0; robotics; mechatronics systems; automation; manufacturing; cyber-physical and autonomous systems; sensors; networks; control, energy, and renewable energy sources; automotive and biological systems; vehicular networking and connected vehicles; effectiveness and logistics systems, smart grids, nonlinear systems, power, social and economic systems, education, and IoT. This book is oriented towards Fourth Industrial Revolution "Industry 4.0", which implementation will improve many aspects of human life in all segments and lead to changes in business paradigms and production models. Further, new business methods are emerging, transforming production systems, transport, delivery, and

consumption, which need to be monitored and implemented by every company involved in the global market.

SPS2020 Taylor & Francis

In a world grappling with sustainability challenges, the service sector is crucial for both the global economy and achieving Sustainable Development Goals (SDGs). Despite its importance, the sector faces obstacles like unequal access, resource inefficiency, and the digital divide, hindering progress towards sustainability. Sustainable Development Goal Advancement Through Digital Innovation in the Service Sector offers a pioneering solution by exploring how digital technologies can drive SDG achievement in this sector, unveiling a transformative path toward sustainability. The book delves deep into

the relationship between digital innovation and sustainable development, revealing challenges, opportunities, and strategies. It highlights how technologies like IoT, AI, and blockchain can revolutionize service delivery, enhance access, and promote resource efficiency. More than a guide, this book serves as a roadmap for policymakers, academics, business leaders, and changemakers, enabling them to leverage digital innovation's potential for a service sector that transcends limitations and aligns with SDGs.

Robots IGI Global

This book focuses on how digital technologies and rapid developments in artificial intelligence are shaping a new generation of cyber-physical systems based on the convergence among

robots, sensors, and 3D printing. The book tells a story based on data and indicators to compare the resilience to this transformation in some key manufacturing regions. As a specific case study, the book discusses in length the transformation of the manufacturing processes in the Italian automotive industry. The authors conclude the book by providing policy implications for regions and cities.

Industrial Policy for the Manufacturing Revolution Walter de Gruyter GmbH & Co KG

This open access book examines the future of inequality, work and wages in the age of automation with a focus on developing countries. The authors argue that the rise of a global 'robot reserve army' has profound effects on labor

markets and economic development, but, rather than causing mass unemployment, new technologies are more likely to lead to stagnant wages and premature deindustrialization. The book illuminates the debate on the impact of automation upon economic development, in particular issues of poverty, inequality and work. It highlights public policy responses and strategies—ranging from containment to coping mechanisms—to confront the effects of automation.

Applied Technologies Routledge

With digital automation becoming ubiquitous, the relationship between man and machine is being redefined. This book, through a focus on America, identifies the tension this relationship has produced, and how it has divided

America socially, politically, and economically, ultimately breeding two fundamentally incompatible nations within one: the “forgotten America” and “elite America.” This book enables the reader to visualize the changes brought by automation on our producer and buyer identities, and suggests policy changes that global leaders could adopt to deal with the increasing discord. The book is heavily dependent on a few fundamental concepts of both economics and sociology, such as globalization, labor economics, and cultural homogenization. The book is ideally suited to students and academics researching political economics and sociology, with focuses on globalization, unemployment, and the social impacts of technological advances.

Startups and Robots Edward Elgar
Publishing

The field of artificial intelligence (AI) has made tremendous advances in the last two decades, but as smart as AI is now, it is getting smarter and becoming more autonomous. This raises a host of challenges to current legal doctrine, including whether AI/algorithms should count as ‘speech’, whether AI should be regulated under antitrust and criminal law statutes, and whether AI should be considered as an agent under agency law or be held responsible for injuries under tort law. This book contains chapters from US and international law scholars on the role of law in an age of increasingly smart AI, addressing these and other issues that are critical to the evolution of the field.

Planning and Managing Sustainability in Tourism CRC Press

WIPO's latest World Intellectual Property Report (WIPR) explores the role of IP at the nexus of innovation and economic growth, focusing on the impact of breakthrough innovations.

Autonomous Robotics Taylor & Francis
Strategic foresight is discipline that organizations adopt to gather, interpret, manage information about the future environment they plan to operate in. This book introduces the concept of strategic foresight and advocates a holistic and systemic foresight approach comprising five phases that are suitable for organizations in the public and private sectors. Using real-life cases as practical examples, the book demonstrates how organizations can

apply a range of foresight methods and resources across the phases from intelligence to implementation. The book offers an opportunity to learn by all key stakeholders. It enhances the understanding of the National Research Organization's Foresight exercise (as the complex social phenomenon) in its context. The case study of the National Research Organisation provides lessons and insights that can improve both the theoretical and practical implementation of the Foresight Exercise. Dr Mlungisi Cele Acting Head: National Advisory Council on Innovation Department of Science and Technology, Republic of South Africa Foresight methodologies have been widely spreading among business and research organizations worldwide during the last decades. The

weakest point of many forward-looking activities so far was the lack of their practical use. The books shows, on a number of cases, how a Foresight study, being wisely designed and implemented, can become a useful navigation tool for increasing competitiveness in the fast changing environment. Dr Alexander Sokolov Professor, HSE National Research University, Russia Director, Institute for Statistical Studies and Economics of Knowledge / International Research and Educational Foresight Centre Very useful tool to describe how organizations assess the future and formulate strategic plans using a systemic foresight methodology Ibon Zugasti Managing Director in PROSPEKTIKER and Chair of the Millennium Project Node in Spain A

comprehensive source of knowledge on complex issues of technology foresight process, from conception to commercialization of key technologies, made easy to understand and useful for aspiring futurists seeking to learn more about the matters at hand. Dr Surachai Sathitkunarat Executive Director, APEC Center for Technology Foresight (APEC CTF) Assistant to the President Office of National Higher Education, Science, Research and Innovation Policy Council (NXPO) Thailand This book provides a very good coverage of the end-to-end methodology for technology-based innovation through the use of diverse and relevant business use cases. Very often, books on this theme only expound the approaches. Sarah goes beyond in sharing the pitfalls and challenges

during the different stages of the systemic foresight methodology so that readers can learn and avoid the mistakes that other companies made. The emphasis on open innovation and intellectual property management is valuable as many organizations fail to deliver the vision due to insufficient attention on these two aspects. A must read if you wish to master strategic foresight. Dr Terence Hung Chief, Future Intelligence Technologies Rolls-Royce Singapore Pte Ltd Why do people want to know the future? People want to use budget efficiently or don't want to waste time? Aside from those who see the future, like fortune tellers, how do we make the future? Foresight is known as a method of creating the future in a way that many people has been using. So

how is it different between Forecast and Foresight? This book will help answer that. Dr Kuniko Urashima Deputy Director of Foresight Center National Institute of Science and Technology Policy (NISTEP), Japan .

Tax and Robotics Xlibris Corporation Automation and Its Macroeconomic Consequences reveals new ways to understand the economic characteristics of our increasing dependence on machines. Illuminating technical and social elements, it describes economic policies that could counteract negative income distribution consequences of automation without hampering the adoption of new technologies. Arguing that modern automation cannot be compared to the Industrial Revolution, it considers consequences of automation

such as spatial patterns, urbanization, and regional concerns. In touching upon labor, growth, demographic, and policy, Automation and its Macroeconomic Consequences stands at the intersection of technology and economics, offering a comprehensive portrait illustrated by empirical observations and examples. - Introduces formal growth models that include automation and the empirical specifications on which the data-driven results rely - Focuses on formal modeling, empirical analysis and derivation of evidence-based policy conclusions - Considers consequences of automation, such as spatial patterns, urbanization and regional concerns

Cognitive Hyperconnected Digital Transformation Rowman & Littlefield

The radical transformations to which the

economy and society have been subjected for decades have gained momentum in recent years, not least because of the coronavirus pandemic, the consequences of which are yet to be fully understood. As a result, certain economic models and business practices are becoming less sustainable. One of the reasons for this is the rapid advance of Revolution 4.0. The issues raised in this book are central to understanding the theoretical and practical aspects of the Fourth Industrial Revolution and its overwhelming impact on emerging socio-economic relations. The book addresses the future and flexibility of the labour market in the era of digital transformation; issues related to the emergence of new patterns of production and the distribution of public

services. It examines the impact of Revolution 4.0 on the global business services sector and business project management models, in times of increasing complexity. The book covers a broad spectrum of concerns associated with Industry 4.0, such as social, economic, technological, and environmental, making it a comprehensive resource offering state-of-the-art knowledge. Further, it includes a discussion on the perspectives for the development of Revolution 4.0 in the context of the post-pandemic world. This book skillfully combines theoretical considerations with practical applications, offering a valuable, engaging and accessible resource for researchers, scholars, students, policymakers, public decision-makers,

and businesspeople alike.

Resilience and Digital Disruption Taylor & Francis

Knowledge-intensive product realization implies embedded intelligence; meaning that if both theoretical and practical knowledge and understanding of a subject is integrated into the design and production processes of products, this will significantly increase added value. This book presents papers accepted for the 9th Swedish Production Symposium (SPS2020), hosted by the School of Engineering, Jönköping University, Sweden, and held online on 7 & 8 October 2020 because of restrictions due to the Corona virus pandemic. The subtitle of the conference was Knowledge Intensive Product Realization in Co-Operation for Future Sustainable

Competitiveness. The book contains the 57 papers accepted for presentation at the conference, and these are divided into nine sections which reflect the topics covered: resource efficient production; flexible production; virtual production development; humans in production systems; circular production systems and maintenance; integrated product and production development; advanced and optimized components, materials and manufacturing; digitalization for smart products and services; and responsive and efficient

operations and supply chains. In addition, the book presents five special sessions from the symposium: development of changeable and reconfigurable production systems; smart production system design and development; supply chain relocation; management of manufacturing digitalization; and additive manufacturing in the production system. The book will be of interest to all those working in the field of knowledge-intensive product realization.