

Mastering Digital Transformation Towards A Smarter Society Economy City And Nation Innovation Technology And Education For Growth

The three-volume set LNCS 10288, 10289, and 10290 constitutes the proceedings of the 6th International Conference on Design, User Experience, and Usability, DUXU 2017, held as part of the 19th International Conference on Human-Computer Interaction, HCII 2017, in Vancouver, BC, Canada, in July 2017, jointly with 14 other thematically similar conferences. The total of 1228 papers presented at the HCII 2017 conferences were carefully reviewed and selected from 4340 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of Human-Computer Interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The total of 168 contributions included in the DUXU proceedings were carefully reviewed and selected for inclusion in this three-volume set. LNCS 10288: The 56 papers included in this volume are organized in topical sections on design thinking and design philosophy; aesthetics and perception in design; user experience evaluation methods and tools; user centered design in the software development lifecycle; DUXU education and training. LNCS 10289: The 56 papers included in this volume are organized in topical sections on persuasive and emotional design; mobile DUXU; designing the playing experience; designing the virtual, augmented and tangible experience; wearables and fashion technology. LNCS 10290: The 56 papers included in this volume are organized in topical sections on information design; understanding the user; DUXU for children and young users; DUXU for art, culture, tourism and environment; DUXU practice and case studies.

The public sectors of African Portuguese-speaking countries and Timor-Leste (PALOP-TL) have made significant progress in mobilising digital technologies to promote internal efficiency, simplify government procedures and improve the delivery of public services.

Global consumption of raw materials currently goes beyond the earth's regenerative capacity, but the circular economy offers a more sustainable model which also provides new business opportunities. Mastering the Circular Economy is an introduction to circularity from a business and value chain management perspective. With many reflections and exercises throughout, the book draws a direct link between relevant recent theory and practice and offers students and practitioners a deeper understanding of the topic. It looks at both the macro and micro context of the circular economy, from the government and societal view to the impact of new business models in an individual company. Starting from the corporate imperative of moving from linear to circular business models, Mastering the Circular Economy covers the associated opportunities and challenges for organizations, from regulation and risk to value chain collaboration, reverse logistics and product quality. Part two of the book helps students to pull together everything they've learned and see how the concepts play out in the real world by guiding them through application in the online business simulation game The Blue Connection (free basic access is included with the book). Readers are continuously asked to reflect on the choices they would make in different roles to demonstrate a full understanding of the strategic and operational implications of the circular economy.

There is no simple strategic method for dealing with the multidimensional nature of digital change. Even the sharpest leaders can become disoriented as change builds on change, leaving almost nothing certain. Yet to stand still is to fail. Enterprises and leaders must re-master themselves to succeed. Leaders must identify the key macro forces, then lead their organizations at three distinct levels: industry, enterprise, and self. By doing this they cannot only survive but clean up. Digital to the Core makes the case that all business leaders must understand the impact the digital revolution will continue to play in their industries, companies, and leadership style and practices. Drawing on interviews with over 30 top C-level executives in some of the world's most powerful companies and government organizations, including GE, Ford, Tory Burch, Babolat, McDonalds, Publicis and UK Government Digital Service, this book delivers practical insights from those on the front lines of major digital upheaval. The authors incorporate

Gartner's annual CIO and CEO global survey research and also apply the deep knowledge and qualitative insights they have acquired as practitioners, management researchers, and advisors over decades in the business. Above all else, Raskino and Waller want companies and their top leaders to understand the full impact of digital change and integrate it at the core of their businesses.

How Organizations Rethink Their Business for the Digital Age

The Proceedings of the 4th International Conference on Smart City Applications

Handbook of Research on Using Global Collective Intelligence and Creativity to Solve Wicked Problems

Volume 1

Exploring Innovation in a Digital World

Information and Communication Technologies for Development

The Digital Transformation Playbook

Rethink your business for the digital age. Every business begun before the Internet now faces the same challenge: How to transform to compete in a digital economy? Globally recognized digital expert David L. Rogers argues that digital transformation is not about updating your technology but about upgrading your strategic thinking. Based on Rogers's decade of research and teaching at Columbia Business School, and his consulting for businesses around the world, The Digital Transformation Playbook shows how pre-digital-era companies can reinvigorate their game plans and capture the new opportunities of the digital world. Rogers shows why traditional businesses need to rethink their underlying assumptions in five domains of strategy—customers, competition, data, innovation, and value. He reveals how to harness customer networks, platforms, big data, rapid experimentation, and disruptive business models—and how to integrate these into your existing business and organization. Rogers illustrates every strategy in this playbook with real-world case studies, from Google to GE, from Airbnb to the New York Times. With practical frameworks and nine step-by-step planning tools, he distills the lessons of today's greatest digital innovators and makes them usable for businesses at any stage. Many books offer advice for digital start-ups, but The Digital Transformation Playbook is the first complete treatment of how legacy businesses can transform to thrive in the digital age. It is an indispensable guide for executives looking to take their firms to the next stage of profitable

growth.

This book analyzes the set of forces driving the global financial system toward a period of radical transformation and explores the transformational challenges that lie ahead for global and regional or local banks and other financial intermediaries. It is explained how these challenges derive from the newly emerging post-crisis structure of the market and from shadow and digital players across all banking operations. Detailed attention is focused on the impacts of digitalization on the main functions of the financial system, and particularly the banking sector. The author elaborates how an alternative model of banking will enable banks to predict, understand, navigate, and change the external ecosystem in which they compete. The five critical components of this model are data and information mastering; effective use of applied analytics; interconnectivity and "junction playing"; development of new business solutions; and trust and credibility assurance. The analysis is supported by a number of informative case studies. The book will be of interest especially to top and middle managers and employees of banks and financial institutions but also to FinTech players and their advisers and others.

The term Digital Governance stands for Digital Transformation Strategy & Execution's Governance. Mastering Digital Governance will help you improve your personal understanding of the Digital Transformation initiatives dynamics and of the "techniques" required to ensure their smoothest possible execution. Literally, nothing is more important in today's ever-changing world. The success or survival of Companies and Governments depends directly on their ability to embrace and properly execute their Digital Transformation. But this is very hard. Nobody gets trained in this art and most Companies need to act as icebreakers to find their own ways, as there is limited literature and no comprehensive tools available. Mastering Digital Governance aims at filling that gap.

Cyber-physical systems (CPSs) consist of software-controlled computing devices communicating with each other and interacting with the physical world through sensors and actuators. A CPS has, therefore, two parts: The cyber part implementing most of the functionality and the physical part, i.e., the real world. Typical examples of CPS's are a water treatment plant, an unmanned aerial vehicle, and a heart pacemaker. Because most of the functionality is implemented in software, the software is of crucial importance. The software determines the functionality and many CPS properties, such as safety, security, performance, real-time behavior, etc. Therefore, avoiding safety accidents and security incidents in the CPS requires highly

dependable software. Methodology Today, many methodologies for developing safe and secure software are in use. As software engineering slowly becomes disciplined and mature, generally accepted construction principles have emerged. This monograph advocates principle-based engineering for the development and operation of dependable software. No new development process is suggested, but integrating security and safety principles into existing development processes is demonstrated. Safety and Security Principles At the core of this monograph are the engineering principles. A total of 62 principles are introduced and catalogized into five categories: Business & organization, general principles, safety, security, and risk management principles. The principles are rigorous, teachable, and enforceable. The terminology used is precisely defined. The material is supported by numerous examples and enriched by illustrative quotes from celebrities in the field. Final Words «In a cyber-physical system's safety and security, any compromise is a planned disaster» Audience First, this monograph is for organizations that want to improve their methodologies to build safe and secure software for mission-critical cyber-physical systems. Second, the material is suitable for a two-semester, 4 hours/week, advanced computer science lecture at a Technical University. This textbook has been recommended and developed for university courses in Germany, Austria and Switzerland.

Challenges and Futures in the Asian Digital Economy

Digital Transformation for Promoting Inclusiveness in Marginalized Communities

An Entrepreneurial Revolution in the Making

Rethink Your Business for the Digital Age

Digital Kenya

Digital Transformation Management for Agile Organizations

Digitalization Cases Vol. 2

This book is open access under a CC BY 4.0 license. Presenting rigorous and original research, this volume offers key insights into the historical, cultural, social, economic and political forces at play in the creation of world-class ICT innovations in Kenya.

Following the arrival of fiber-optic cables in 2009, Digital Kenya examines why the initial entrepreneurial spirit and digital revolution has begun to falter despite support from motivated entrepreneurs, international investors, policy experts and others. Written by engaged scholars and professionals in the field, the book offers 15 eye-opening

chapters and 14 one-on-one conversations with entrepreneurs and investors to ask why establishing ICT start-ups on a continental and global scale remains a challenge on the "Silicon Savannah". The authors present evidence-based recommendations to help Kenya to continue producing globally impactful ICT innovations that improve the lives of those still waiting on the side-lines, and to inspire other nations to do the same.

One of the realities characterizing the globe is the exclusion of marginalized communities in digital transformation. Their exclusion has resulted in a lack of participation in the digital space, which has catastrophic consequences on the digital economy. To promote digital inclusiveness in marginalized communities, there is a need to deconstruct the illusion that digital transformation is an urban phenomenon. Digital Transformation for Promoting Inclusiveness in Marginalized Communities discusses how digital transformation can be utilized to promote inclusiveness in marginalized communities by exploring opportunities and challenges and determining change mechanisms required to enhance digital transformation in marginalized communities. Covering a range of topics such as augmented reality and remote communities, this reference work is ideal for government employees, technologists, policymakers, industry professionals, researchers, scholars, academicians, instructors, and students.

Industry 4.0 is a challenge for today's businesses. It's a concept that encompasses the technological innovations of automation, control, and information technology, as it's applied to manufacturing processes. It's a new topic that recently emerged in academia and industry, with few books that target both management and engineering. This book will cover the new advances and the way to manage competitive organizations. The chapters will include terms of theory, evidence, and/or methodology, and significantly advance social scientific research. This book: Focuses on the latest and most recent research findings occurring on the topic of Industry 4.0 Presents the ways companies around the world are facing today's technological challenges Assists researchers and practitioners in selecting the correct options and strategies to manage competitive organizations Provides recent advances in international studies Encompasses the main technological innovations in the fields of automation, control, and information technology applied to the

manufacturing processes Industry 4.0: Challenges, Trends, and Solutions in Manangement and Engineering is designed to increase the knowledge and effectiveness of all managers and engineers in all organizations and activity sectors Carolina Machado has been teaching in the Human Resources Management subjects since 1989 at University of Minho, Portugal. She has been an associate professor since 2004, with experience and research interest areas in the field of Human Resource Management, International Human Resource Management, Human Resource Management in SMEs, Training and Development, Emotional Intelligence, Management Change, Knowledge Management, and Management/HRM in the Digital Age. She is head of the Department of Management and head of the Human Resources Management Work Group at University of Minho, as well as chief editor of the International Journal of Applied Management Sciences and Engineering (IJAMSE). J. Paulo Davim is a professor at the Department of Mechanical Engineering of the University of Aveiro, Portugal. He has more than 30 years of teaching and research experience in Manufacturing, Materials, Mechanical, and Industrial Engineering, with special emphasis in Machining & Tribology. He has also interest in Management, Engineering Education, and Higher Education for Sustainability. He has worked as evaluator of projects for ERC (European Research Council) and other international research agencies.

The term Digital Governance stands for Digital Transformation Strategy & Execution's Governance.Nothing is more important in today's world. The success or survival of Companies and Governments depends directly on their ability to embrace and properly execute their Digital Transformation.But this is very hard, and there is limited literature and no comprehensive tools available.

The agile approach to change and successful digitalization in uncertain times

A Guide to Reimagining Your Business

Innovations in Smart Cities Applications Edition 2

The Agile Approach to Change and Successful Digitalization in Uncertain Times

Understanding the Strategic Process

The Fourth Industrial Revolution

Insights, Tools, and Techniques

This book constitutes the refereed proceedings of the 14th IFIP WG 9.4 International Conference on Social Implications of Computers in Developing Countries, ICT4D 2017, held in Yogyakarta, Indonesia, in May 2017. The 60 revised full papers and 8 short papers presented together with 3 keynotes were carefully reviewed and selected from 118 submissions. The papers are organized in the following topical sections: large scale and complex information systems for development; women empowerment and gender justice; social mechanisms of ICT-enabled development; the data revolution and sustainable development goals; critical perspectives on ICT and open innovation for development; the contribution of practice theories to ICT for development; agile development; indigenous local community grounded ICT developments; global sourcing and development; sustainability in ICT4D; and information systems development and implementation in Southeast Asia. Also included are a graduate student track, current issues and notes. The chapter 'An Analysis of Accountability Concepts for Open Development' is open access under a CC BY 4.0 license via link.springer.com.

This book addresses key topics related to organization design and knowledge management in the digital economy with organizational context, particularly in Asia. Asian nations are moving fast toward the digital economy, within which the role of organization design and knowledge management is crucial to support innovative and creative ideas for meeting huge market opportunities where customers are ready for digitalization. The book conceptualizes organization design into three dimensions, people, information, and technology, and offers readers a unique valued insight, bringing new perspectives to understanding emerging business opportunities and challenges in Asia. It presents a valuable collection of 14 chapters with empirical studies from leading researchers. The book addresses digital transformation in companies and organizations in Asia, analysing how disruptive technologies can help them have more efficient organization processes, create innovative products and services, be more resilient and achieve sustainable goals in the post-pandemic time. It fills a gap in the market offering a valuable collection of chapters that combines strategic topics for companies, organizations and nations today, such as digital economy, disruptive technologies, big data and knowledge management, with a specific focus on the Asian region, providing rich examples and studies focused in countries and regions within Asia. Written for scholars, researchers and other specialists in digitalization, this book offers a unique collection of insights into the current and future situation in Asia.

This book presents a rich compilation of real-world cases on digitalization, aiming to share first-hand insights from renowned organizations and to make digitalization tangible. With all economic and societal sectors being challenged by emerging technologies, the digital economy is highly volatile, uncertain, complex, and ambiguous. It confronts established organizations with substantial challenges and opportunities. Against this backdrop, this book reports on best practices and lessons learned from organizations that succeeded in tackling the challenges and seizing the opportunities of the digital

economy. It illustrates how twenty organizations leveraged their capabilities to create disruptive innovation, to develop digital business models, and to digitally transform themselves. These cases stem from various industries (e.g. automotive, insurance, consulting, and public services) and countries, covering the many facets that digitalization may have. As all case descriptions follow a unified template, they are easily accessible for readers and provide insightful examples for practitioners as well as interesting cases for researchers, teachers, and students. Almost every organization is trying to figure out how best to respond to the opportunities and threats posed by digitalization. This book provides valuable lessons from those organizations that have already begun their digital transformation journey. Michael D. Myers, Professor of Information Systems, University of Auckland *Digitalization Cases* provides firsthand insights into the efforts of renowned companies. The presented actions, results, and lessons learned are a great inspiration for managers, students, and academics. This book gives real pointers on the how and where to start. Anna Kopp, Head of IT Germany, Microsoft The cases compiled in the second volume of *Digitalization Cases* show how disruption can actively be managed. Further, long-term insights from extended success stories of the first edition highlight that courage to change pays off well. This book represents a motivation for organizations to drive their digital transformation journeys actively. Markus Richter, State Secretary at the Federal Ministry of the Interior, Building and Community and Federal Government Commissioner for Information Technology, Germany

Digital transformation is no longer news--it's a necessity. Despite the widespread threat of disruption, many large companies in traditional industries have succeeded at digitizing their businesses in truly transformative ways. The New York Times, formerly a bastion of traditional media, has created a thriving digital product behind a carefully designed paywall. Best Buy has transformed its business in the face of Amazon's threat. John Deere has formed a data-analysis arm to complement its farm-equipment business. And Goldman Sachs and many others are using digital technologies to reimagine their businesses. In *Driving Digital Strategy*, Harvard Business School professor Sunil Gupta provides an actionable framework for following their lead. For over a decade, Gupta has studied digital transformation at Fortune 500 companies. He knows what works and what doesn't. Merely dabbling in digital or launching a small independent unit, which many companies do, will not bring success. Instead you need to fundamentally change the core of your business and ensure that your digital strategy touches all aspects of your organization: your business model, value chain, customer relationships, and company culture. Gupta covers each aspect in vivid detail while providing navigation tips and best practices along the way. Filled with rich and illuminating case studies of companies at the forefront of digital transformation, *Driving Digital Strategy* is the comprehensive guide you need to take full advantage of the limitless opportunities the digital age provides.

OECD Digital Government Studies Promoting the Digital Transformation of African Portuguese-Speaking Countries and Timor-Leste

Business Transformations in the Era of Digitalization

New Mastering Digital Governance

Remastering Leadership for Your Industry, Your Enterprise, and Yourself

Digital Transformation in Financial Services

Mastering Digital Governance

6th International Conference, DUXU 2017, Held as Part of HCI International 2017, Vancouver, BC, Canada, July 9-14, 2017, Proceedings, Part III

This book provides practising executives and academics with the theories and best practices to plan and implement the digital transformation successfully. Key benefits: an overview on how leading companies plan and implement digital transformation interviews with chief executive officers and chief digital officers of leading companies – Bulgari, Deutsche Bahn, Henkel, Lanxess, L'Oréal, Unilever, Thales and others – explore lessons learnt and roadmaps to successful implementation research and case studies on the digitalization of small and medium-sized companies cutting-edge academic research on business models, organizational capabilities and performance implications of the digital transformation tools and insights into how to overcome internal resistance, build digital capabilities, align the organization, develop the ecosystem and create customer value to implement digital strategies that increase profits Managing Digital Transformation is unique in its approach, combining rigorous academic theory with practical insights and contributions from companies that are, according to leading academic thinkers, at the forefront of global best practice in the digital transformation. It is a recommended reading both for practitioners looking to implement digital strategies within their own organisations, as well as for academics and postgraduate students studying digital transformation, strategy and marketing.

Educational robotics is a new teaching technology that aims to provide an interactive, creative, and innovative learning environment in which children can use robotics to investigate subjects such as physics and mathematics. Instructive, creative, and inspirational, this technology provides a number of benefits to education. In order to appropriately utilize this technology, further study on the opportunities and challenges of its successful integration into the classroom is required. Instilling Digital Competencies Through Educational Robotics outlines the new work culture and training guidelines emerging from innovative educational robotics practices present in the new educational and training ecosystem. The text also provides guidelines to prepare younger generations to handle new human and technology paradigms as well as acquire effective working capability for Industry 4.0 and digital transformation scenarios. Covering topics such as working culture, digital skills, and STEM education, this reference work is essential for instructional designers, educational software specialists,

academicians, administrators, managers, scholars, practitioners, researchers, instructors, and students. In order to establish and maintain a successful company in the digital age, managers are digitally transforming their organizations to include such tools as disruptive technologies and digital data to improve performance and efficiencies. As these companies continue to adopt digital technologies to improve their businesses and create new revenues and value-producing opportunities, they must also be aware of the challenges digitalization can present. Business Transformations in the Era of Digitalization is a collection of innovative research on the latest trends, business opportunities, and challenges in the digitalization of businesses. Highlighting a range of topics including business-IT alignment, cloud computing, Internet of Things (IoT), business sustainability, small and medium-sized enterprises, and digital entrepreneurship, this book is ideally designed for managers, professionals, consultants, entrepreneurs, and researchers.

This book presents a rich compilation of real-world cases on digitalization, the goal being to share first-hand insights from respected organizations and to make digitalization more tangible. As virtually every economic and societal sector is now being challenged by emerging technologies, the digital economy is a highly volatile, uncertain, complex and ambiguous place – and one that holds substantial challenges and opportunities for established organizations. Against this backdrop, this book reports on best practices and lessons learned from organizations that have succeeded in overcoming the challenges and seizing the opportunities of the digital economy. It illustrates how twenty-one organizations have leveraged their capabilities to create disruptive innovations, to develop digital business models, and to digitally transform themselves. These cases stem from various industries (e.g. automotive, insurance, consulting, and public services) and countries, reflecting the many facets of digitalization. As all case descriptions follow a uniform schema, they are easily accessible, and provide insightful examples for practitioners as well as interesting cases for researchers, teachers and students. Digitalization is reshaping business on a global scale, and it is evident that organizations must transform to thrive in the digital economy. Digitalization Cases provides first-hand insights into the efforts of renowned companies. The presented actions, results, and lessons learned are a great inspiration for managers, students, and academics. Anna Kopp, Head of IT Germany, Microsoft Understanding digitalization in all its facets requires knowledge about its opportunities and challenges in different contexts. Providing 21 cases from different companies all around the world, Digitalization Cases makes an important contribution toward the comprehensibility of digitalization – from a practical and a scientific point of view. Dorothy Leidner, Ferguson Professor of Information Systems, Baylor University This book is a great source of inspiration and insight on how to drive digitalization. It shows easy to understand good practice examples which illustrate opportunities, and at the same time helps to learn what needs to be done to realize them. I consider this book a must-read for every practitioner who cares about

digitalization. Martin Petry, Chief Information Officer and Head of Business Excellence, Hilti

Mastering Digital Business

Engineering dependable Software using Principle-based Development

Cultural and Organizational Challenges

Driving Digital Strategy

The Oxford Handbook of Digital Technology and Society

5th International Conference, LCT 2018, Held as Part of HCI International 2018, Las Vegas, NV, USA, July

15-20, 2018, Proceedings, Part I

Instilling Digital Competencies Through Educational Robotics

Digital Transformation Management for Agile Organizations highlights and explores new dynamics regarding how current digital developments globally scale, by examining the threats, as well as the opportunities these innovations offer to organizations of all kinds.

The term Digital Governance stands for Digital Transformation Strategy & Execution's Governance. Mastering Digital Governance will help you improve your personal understanding of the Digital Transformation initiatives dynamics and of the "techniques" required to ensure their smoothest possible execution. Literally, nothing is more important in today's ever-changing world. The success or survival of Companies and Governments depends directly on their ability to embrace and properly execute their Digital Transformation. But this is very hard. Nobody gets trained in this art and most Companies need to act as icebreakers to find their own ways, as there is limited literature and no comprehensive tools available. Mastering Digital Governance aims at filling that gap. Higher education is dynamic, constantly adapting to meet the requirements of students and industry. Transforming Higher Education Through Digitalization: Insights, Tools, and Techniques provides insights from experienced academicians on the digitalization of education and its appropriateness for enhancing the quality of teaching in institutions of higher education. The book also provides insights on technologies used in digital education, the competencies and skills required by teachers and students, managing quality of education through online modes, MOOCs (Massive, Open, Online Courses), and methods to support teachers and instructors in online education. The book also enables teachers and instructors to help students develop the knowledge and skills they need in a digital age and enable them to build collaborative learning that will bring them success. Written for educators, students, and policy makers of higher education, this book demonstrates how to transform traditional education to digital education and to continue their activities without the requirement of students and teachers meeting each other on campus.

Today's world is continually facing complex and life-threatening issues that are too difficult or even impossible to solve. These challenges have been titled "wicked" problems due to their radical and multifarious nature. Recently, there has been a focus on global cooperation and gathering creative and diverse methods from around the world to solve these issues. Accumulating research

and information on these collective intelligence methods is vital in comprehending current international issues and what possible solutions are being developed through the use of global collaboration. The Handbook of Research on Using Global Collective Intelligence and Creativity to Solve Wicked Problems is a pivotal reference source that provides vital research on the collaboration between global communities in developing creative solutions for radical worldwide issues. While highlighting topics such as collaboration technologies, neuro-leadership, and sustainable global solutions, this publication explores diverse collections of problem-solving methods and applying them on a global scale. This book is ideally designed for scholars, researchers, students, policymakers, strategists, economists, and educators seeking current research on problem-solving methods using collective intelligence and creativity.

*A Practical Approach to the Circular Business Model Transformation
Challenges, Trends, and Solutions in Management and Engineering
Mastering Digital Transformation
Towards a Smarter Society, Economy, City and Nation
New Maritime Business
Innovations in Smart Cities Applications Edition 3
Industry 4.0*

Steffen Damborg, the name needs no introduction in the area of digital transformation. For over 20 years, Steffen has worked as a C-level executive with a compressive understanding of how well-established companies function. His passion is to help legacy companies transform via the development and execution of sustainable digital strategies that are based on digital leadership. The book Mastering Digital Transformation extracts from numerous cases of successful digital corporations such as Apple, Google, Facebook, and Tesla and what it takes to transform legacy companies into the digital age. To go from doing digital to being truly digital companies, the author advocates: - Organisational commitment towards digital strategy adoption and implementation - Promotion of experimentation based on concrete and tangible data - Adoption of a cross-functional and agile approach to disruptive innovation - Keeping the organisational strategies fresh by constant adaptation to digital innovations, embracing and preparing for changes in competition, and making necessary changes on the organisation-wide scale for the shifts in market trends This book is an acumen of his knowledge, professional expertise, and experiences and serves to promote a new narrative of digital transformation. It empowers professionals, strategists, managers, board members, directors, C-level executives, and legacy companies to overcome the challenges they face in their journey to digital transformation. Mr. Damborg holds an MBA degree from Aarhus School of Business and a MSc degree in political science from Heidelberg University/Aarhus University. In 2016 Steffen Damborg was appointed Media & Entertainment Group

Discussion Leader at Harvard Business School.

This book, with contributions by both leading scholars and industry experts, provides a coherent framework for understanding complex determinants and patterns of industry competitiveness. Divided into eight parts, it covers both quantitative and qualitative research on the following topics: technologies, economic development, and human resources in Industry 4.0; management in the digital economy; artificial intelligence and knowledge management approaches; drivers of sustainable and innovative development in corporations; resilient and competitive systems in the energy sector; compliance and anti-corruption mechanisms; and competence networks and technological integration. Thanks to its highly stimulating discussions on the determinants and patterns of industry competitiveness, this book appeals to a wide readership.

Nagy Hanna presents a systematic approach to integrate ICT into development policies and programs across sectors of economy and society. This book bridges the current disconnect between the ICT specialists and their development counterparts in various sectors so as to harness the ongoing ICT revolution to maximize development impact.

Between the 18th and 19th centuries, Britain experienced massive leaps in technological, scientific, and economical advancement

Managing Digital Transformation

Best Practices in Manufacturing Processes

Safety and Security of Cyber-Physical Systems

Digital to the Core

CAREC Digital Strategy 2030

14th IFIP WG 9.4 International Conference on Social Implications of Computers in Developing Countries, ICT4D 2017, Yogyakarta, Indonesia, May 22-24, 2017, Proceedings

Transforming Higher Education Through Digitalization

This book highlights cutting-edge research presented at the third installment of the International Conference on Smart City Applications (SCA2018), held in Tétouan, Morocco on October 10-11, 2018. It presents original research results, new ideas, and practical lessons learned that touch on all aspects of smart city applications. The respective papers share new and highly original results by leading experts on IoT, Big Data, and Cloud technologies, and address a broad range of key challenges in smart cities, including Smart Education and Intelligent Learning Systems, Smart Healthcare, Smart Building and Home Automation, Smart Environment and Smart Agriculture, Smart Economy and Digital Business, and Information Technologies and Computer Science, among others. In addition, various novel proposals regarding smart cities are discussed. Gathering peer-reviewed chapters written by prominent researchers

Online Library Mastering Digital Transformation Towards A Smarter Society Economy City And Nation Innovation Technology And Education For Growth

from around the globe, the book offers an invaluable instructional and research tool for courses on computer and urban sciences; students and practitioners in computer science, information science, technology studies and urban management studies will find it particularly useful. Further, the book is an excellent reference guide for professionals and researchers working in mobility, education, governance, energy, the environment and computer sciences.

This two-volume set LNCS 10924 and 10925 constitute the refereed proceedings of the 5th International Conference on Learning and Collaboration Technologies, LCT 2018, held as part of the 20th International Conference on Human-Computer Interaction, HCII 2018, in Las Vegas, NV, USA in July 2018. The 1171 papers presented at HCII 2018 conferences were carefully reviewed and selected from 4346 submissions. The papers cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of applications areas. The papers in this volume are organized in the following topical sections: designing and evaluating systems and applications, technological innovation in education, learning and collaboration, learners, engagement, motivation, and skills, games and gamification of learning, technology-enhanced teaching and assessment, computing and engineering education. ?

This book highlights original research and recent advances in various fields related to smart cities and their applications. It gathers papers presented at the Fourth International Conference on Smart City Applications (SCA19), held on October 2-4, 2019, in Casablanca, Morocco. Bringing together contributions by prominent researchers from around the globe, the book offers an invaluable instructional and research tool for courses on computer science, electrical engineering, and urban sciences. It is also an excellent reference guide for professionals, researchers, and academics in the field of smart cities. This book covers topics including: • Smart Citizenship • Smart Education • Digital Business and Smart Governance • Smart Health Care • New Generation of Networks and Systems for Smart Cities • Smart Grids and Electrical Engineering • Smart Mobility • Smart Security • Sustainable Building • Sustainable Environment

This book reports the best practices that companies established in Latin America are implementing in their manufacturing processes in order to generate high quality products and stay in the market. It lists the technologies, production and administrative philosophies that are being implemented, presenting a collection of successful cases of studies from Latin America. The book describes how the tools and techniques are being integrated, modified and combined to create new technical resources for assisting the decision making process for better economic performance in manufacturing companies. The efforts deployed for assisting the transformation of raw materials into products and services are described. The authors explain the main key success factors or drivers for success of each tool, technique or hybrid combination approach applied to solve manufacturing problems.

Online Library Mastering Digital Transformation Towards A Smarter Society Economy City And Nation Innovation Technology And Education For Growth

Experiences from Latin America

Digitalization Cases

Accelerating Digital Transformation for Regional Competitiveness and Inclusive Growth

How Powerful Combinations of Disruptive Technologies are Enabling the Next Wave of Digital Transformation

Learning and Collaboration Technologies. Design, Development and Technological Innovation

Industry Competitiveness: Digitalization, Management, and Integration

ECIE 2019 14th European Conference on Innovation and Entrepreneurship (2 vols)

This strategic guide for business and IT executives focuses on how today's most disruptive technologies can be applied in powerful combinations along with platform business models, mastery of digital services, and leading practices in corporate innovation, to help you develop and execute your digital strategies for competitive advantage.

Digital transformation can positively impact economic growth, jobs creation, and social inclusion. As the Central Asia Regional Economic Cooperation (CAREC) region deals with the challenges posed by the coronavirus disease (COVID-19) pandemic, investing in national broadband infrastructure is more crucial than ever to enable connectivity and improve service delivery. Digitalization will allow CAREC member countries to develop robust solutions for areas including agriculture and water, e-commerce and trade, education and skills, energy, finance, health, transportation, and tourism. The CAREC Digital Strategy 2030 is intended as a catalyst for regional cooperation, promoting policy design, capacity building, and dialogue to address economic and social challenges in the region with the help of digital technologies.

Required reading for anyone interested in the profound relationship between digital technology and society Digital technology has become an undeniable facet of our social lives, defining our governments, communities, and personal identities. Yet with these technologies in ongoing evolution, it is difficult to gauge the full extent of their societal impact, leaving researchers and policy makers with the challenge of staying up-to-date on a field that is constantly in flux. The Oxford Handbook of Digital Technology and Society provides students, researchers, and practitioners across the technology and

social science sectors with a comprehensive overview of the foundations for understanding the various relationships between digital technology and society. Combining robust computer-aided reviews of current literature from the UK Economic and Social Research Council's commissioned project "Ways of Being in a Digital Age" with newly commissioned chapters, this handbook illustrates the upcoming research questions and challenges facing the social sciences as they address the societal impacts of digital media and technologies across seven broad categories: citizenship and politics, communities and identities, communication and relationships, health and well-being, economy and sustainability, data and representation, and governance and security. Individual chapters feature important practical and ethical explorations into topics such as technology and the aging, digital literacies, work-home boundary, machines in the workforce, digital censorship and surveillance, big data governance and regulation, and technology in the public sector. The Oxford Handbook of Digital Technology and Society will equip readers with the necessary starting points and provocations in the field so that scholars and policy makers can effectively assess future research, practice, and policy.

Digital Transformation Management

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Mastering the Circular Economy

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