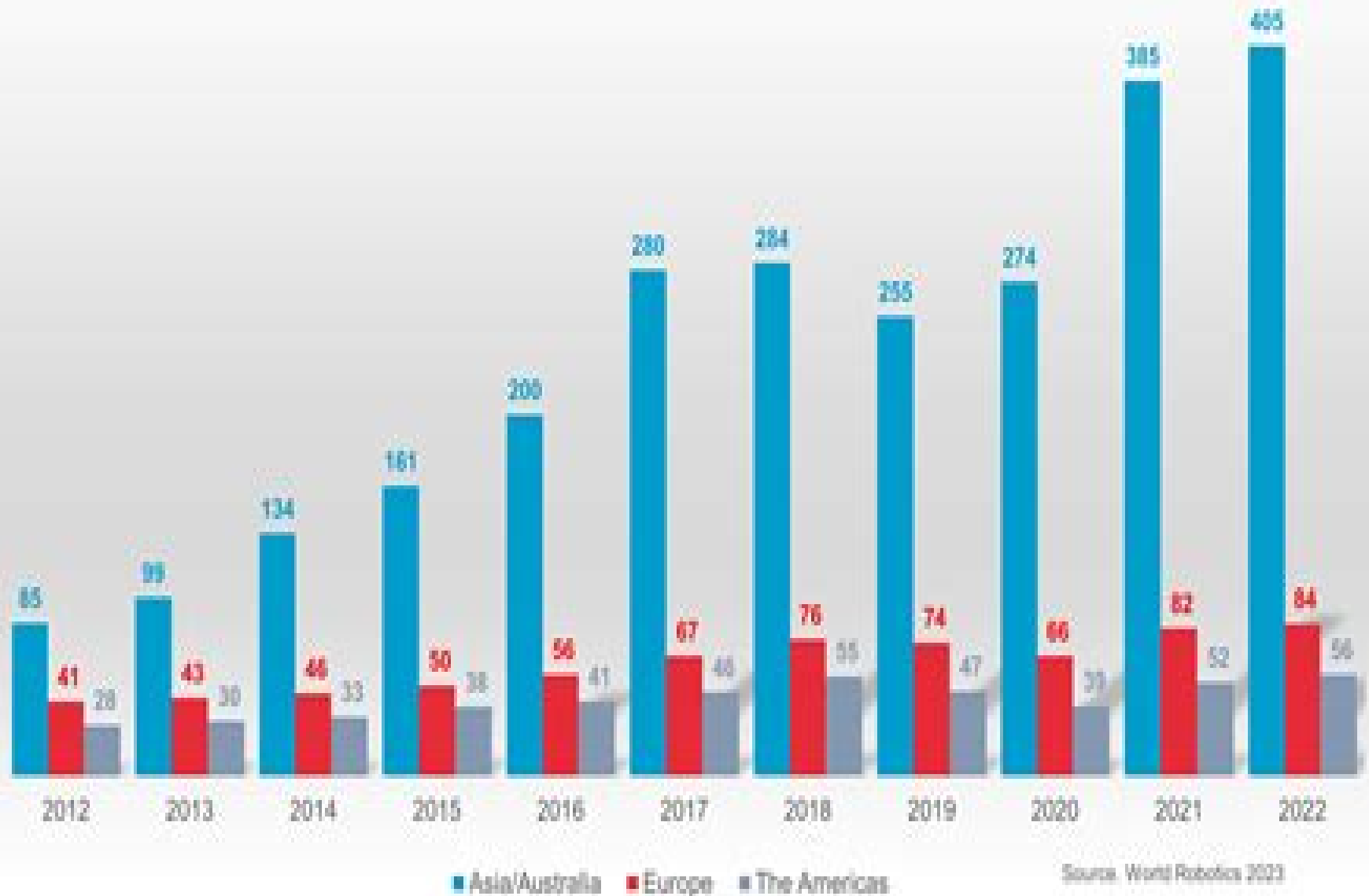


Annual installations of industrial robots
('000 of units)



World Robotics 2017 Ifr

Dobroć, Paulina, Rothenhäusler, Andie

World Robotics 2017 Ifr:

New Technologies, Development and Application V Isak Karabegović, Ahmed Kovačević, Sadko Mandžuka, 2022-05-25

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 23rd 25th June 2022 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 renewable energy sources automotive and biological systems vehicular networking and connected vehicles intelligent transport effectiveness and logistics systems smart grids nonlinear systems power social and economic systems education IoT The book New Technologies Development and Application V is oriented towards Fourth Industrial Revolution Industry 4 0 in 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

Digitalisierung der Arbeitswelten Sabine Pfeiffer, Manuel Nicklich, Michael Henke, Martina Heßler, Martin

Krzywdzinski, Ingo Schulz-Schaeffer, 2024-08-31 Diese Open Access Publikation b ndelt Ergebnisse aus der ersten F rderphase des interdisziplin ren DFG Schwerpunktprogramms 2267 Digitalisierung der Arbeitswelten Digitalisierung ver ndert Arbeit mit vielf ltigen Konsequenzen f r Arbeit smarkt und Qualifizierung Wie dramatisch und grunds tzlich diese Ver nderungen sind wird seit Jahren kontrovers diskutiert und anwendungsbezogen erforscht Das Schwerpunktprogramm nimmt die Ver nderung der Arbeitsgesellschaft als Ganzes in den Blick Geschichts Sozial und Wirtschaftswissenschaften analysieren die vielschichtigen und widerspr chlichen Dynamiken als eine systemische Transformation Leitend ist dabei die These von drei Bewegungsdynamiken die Durchdringung z B von digitalen Arbeitsprozessen die Verf gbarmachung z B von Daten ber einzelne Arbeitshandlungen und die Verselbst ndigung z B von datengetriebenen Wertsch pfungsketten Methodische Reflexionen zu Erfassbarkeit der Transformation runden den Band ab **Grundlagen der Roboter-Manipulatoren -**

Band 1 Jörg Mareczek, 2020-05-13 Ein Lehrbuch mit allen Grundlagen zur Entwicklung von Roboter Manipulatoren Die Robotik ist nicht nur ein interdisziplin rer Fachbereich sondern vor allem ein enorm umfangreiches Dieses Lehrbuch hilft bei der Orientierung und widmet sich intensiv einem Teilbereich dieses Feldes Den Grundlagen der Roboter Manipulatoren auch Roboter Arme genannt Mareczek geht in seinem Lehrbuch sogar noch weiter in die Tiefe und fokussiert sich auf Master Slave Systeme und Industrieroboter Im ersten Teil des zweib ndigen Nachschlagewerkes erhalten Sie eine detaillierte Einf hrung in die Robotik sowie einen berblick ber die Abgrenzung der Roboterklasse der Manipulatoren Nachdem die Grundlagen sitzen geht es an die Feinheiten der Materie Erfahren Sie welche Einfl sse die direkte inverse sowie differentielle

Kinematik auf die mathematischen Bewegungsmodelle für Manipulatoren haben. Mit einem Abschnitt über die Dynamik erhalten Sie in diesem Lehrbuch darüber hinaus Einblicke in die Aspekte massebedingter Trägheit sowie einwirkender Kräfte und Momente. Erfahren Sie alles über die Entwicklung und Steuerung von Roboter Armen. Der Inhalt dieses Lehrbuches ist nicht nur theoretischer Natur. Obwohl es sich in erster Linie mit den Grundlagen der Robotik auseinandersetzt, veranschaulicht es alle Problemstellungen durch einfache Beispiele. Um die ausführliche Theorie nachvollziehbarer zu machen, greift Mareczek auf folgende Elemente zurück: Kleine Darstellungsschritte, Farbige 3D-Illustrationen, Erläuternde Beispiele. Daneben beschränkt Mareczek die mathematischen auf das notwendige Minimum und erleichtert es Ihnen dadurch auch komplexe Zusammenhänge leichter zu verstehen. Egal ob Student oder berufserfahrener Entwickler, Sie werden auf jeden Fall von dem umfangreichen Wissensschatz in diesem Lehrbuch profitieren.

New Technologies, Development and Application VI Isak Karabegovic, Ahmed Kovačević, Sadko Mandzuka, 2023-05-19. 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.

Handbuch Mensch-Roboter-Kollaboration Rainer Müller, Jörg Franke, Dominik Henrich, Bernd Kühlenkötter, Annika Raatz, Alexander Verl, 2023-12-08. Die Zusammenarbeit von Mensch und Roboter. Möglichkeiten, Ziele, Grenzen. Jeder Robotereinsatz hat nur dann Sinn, wenn er dem Menschen nützt. Der Nutzen eines Roboters entsteht durch seine Fähigkeit, uns von Arbeit zu befreien, die wir nicht machen können oder wollen. Bei der Mensch-Roboter-Kooperation geht es um Arbeitsplätze an denen der Mensch ohne trennende Schutzeinrichtungen direkt mit einem Roboter zusammenarbeitet. Dadurch wird z.B. die höhere Flexibilität des Menschen mit der größeren Ausdauer und Genauigkeit der Maschine kombiniert. Das vorliegende Handbuch beschreibt alle wichtigen Aspekte, die beim Einsatz von kollaborativen Robotern eine Rolle spielen: das Geschäfts- und Wettbewerbsumfeld, wo und wann lohnt sich der Einsatz von kollaborativen Robotern überhaupt, der vorhandene Maschinenpark im Unternehmen. Passen Roboter da hinein oder muss man zusätzliche Investitionen einplanen? Arbeitsschutz: Sind Roboter unter allen Umständen sicher? Technik: Welche Typen gibt es, welche Steuerungskonzepte gibt es? Produktionsprozesse: Wie werden Roboter auf

allen Ebenen erfolgreich integriert ohne Menschen zu benachteiligen Zahlreiche Beispiele aus verschiedenen Branchen zeigen die verschiedenen Einsatzszenarien von kollaborativen Industrierobotern In der 2 Auflage gibt es zahlreiche Updates neue Applikationen und Sicherheitsstrategien Weiterentwicklung der Sensorik und Programmierung verbesserte Kopplung des Digitalen Zwillings wesentlich erweiterte Modelle der Mensch Roboter Interaktion neue Ansätze zur Inbetriebnahme und Umprogrammierung KI Unterstützung Dieses Buch ist ein Muss für alle die den Roboter jenseits der Großserie für eine wandelbare Produktionsumgebung einsetzen möchten

2000 Revisited - Visionen der Welt von morgen im Gestern und Heute Dobroć, Paulina, Rothenhäusler, Andie, 2020-12-08 Zukunftsvisionen entfalten eine performative Wirkung da sie politische Debatten anstoßen und gesellschaftliche Missstände Hoffnungen und Ängste artikulieren In ihnen angedachte Zeithorizonte etwa das Jahr 2000 werden mitunter zu einem Synonym für die Zukunft selbst Der vorliegende Band führt Fallstudien aus Geschichte Philosophie Soziologie und Technikfolgenabschätzung zusammen und veranschaulicht die Wirksamkeit der Zukunftsvisionen und die Bedeutung von soziotechnischen Deadlines Visions of the future have a performative effect as they trigger political debates and articulate societal grievances hopes and fears Time horizons envisaged in them such as the year 2000 often become synonymous with the future itself This volume brings together case studies from history philosophy sociology and technology assessment in order to show the effectiveness of future visions and the significance of socio technical deadlines

Grundlagen und neue Perspektiven des Luxustourismus Roland Conrady, David Ruetz, Marc Aeberhard, 2019-08-07 Dieses Buch betrachtet das Phänomen des Luxustourismus aus vielen Perspektiven Reisen bildet den Zeitgeist einer Epoche ab Gerade in den vergangenen zwei Jahrzehnten hat sich durch die Digitalisierung und die hohe Verfügbarkeit von Billigreisen ein neues Konsummuster herausgebildet der Luxustourismus ein bislang wenig erforschtes Phänomen das die Herausgeber und Autoren dieses Buchs ausführlich beschreiben Ein besonderes Augenmerk liegt auf den Trends die den Luxusmarkt in Zukunft prägen werden aber auch auf konkreten Maßnahmenempfehlungen für Luxusanbieter Leading Edge Beispiele aus den wichtigsten Segmenten des Tourismusmarktes runden dieses Werk ab und machen es zu einer Orientierungshilfe für unternehmerische Entscheidungen Die Autoren der einzelnen Fachbeiträge sind anerkannte Wissenschaftler und renommierte Führungskräfte Tourismus Experten geben Ihnen neue Einblicke Zur Betrachtung dieses Themenkomplexes konnten die Herausgeber dieses Werks zahlreiche Experten aus dem Umfeld des Kongresses der Internationalen Tourismus Börse ITB gewinnen die Ihnen grundlegende Analysen und Informationen zu aktuellen Luxustrends und Diskussionen liefern Entwicklung der Makroumwelt des Tourismusmarktes Analyse des Phänomens Luxus Verhaltenswissenschaftliche Erklärungen des Luxuskonsums Marketingmanagement von Luxusanbietern Luxus und Tourismusangebot Luxusrelevanz ausgewählter Megatrends im Tourismus Analyse und Zukunftsperspektiven von Luxusmerkmalen Eine Empfehlung für Laien und Praktiker Abgerundet wird dieses Buch durch Leading Edge Beispiele und Case Studies aus dem Bereich des Luxustourismus die Ihnen Impulse für die Praxis geben

Dadurch empfiehlt sich dieses Luxustourismus Buch besonders für Praktiker wie Führungskräfte sowie Mitarbeiter von Reiseveranstaltern Studierende oder Auszubildende in der Tourismusbranche Leser die sich für Tourismusedentwicklungen sowie Strategiekonzepte interessieren

China's Long March of Modernisation Khor Eng Lee, Aaron Khor, 2019-12-11

With the support of its strong leadership and industrious population of close to one billion working Chinese fully committed and dedicated to its peaceful development and comprehensive modernization China is forging ahead on the driver's seat in various fields of human endeavour A leading global role is resourceful and resurgent New China's manifest destiny with the confidence of attaining and regaining the world's largest economy within the coming decade Holding high the new banner of the Fourth Industrial Revolution IR 4.0 China will continue steadfastly and strongly on its Long March of Modernization In the military field the People's Liberation Army has developed from a ragtag fighting force of some 20 000 troops into a two million strong military that's presently rated as the world's third strongest after its counterparts in the US and Russia Speaking at a grand rally to mark the 90th anniversary of the People's Liberation Army PLA at the Great Hall of the People in Beijing on 1 August 2017 President Xi Jinping said the PLA has transformed itself from a millet plus rifles single service force to one that has fully fledged services Having basically completed its mechanization the PLA is moving rapidly toward having strong informationized armed forces 12 President Xi stressed that China must step up the PLA's transformation into a world class military that's ready to fight and win wars in defence of its national sovereignty 13 To quote from the May 2017 Report by the US Department of Defense The PLA is pursuing an ambitious modernization program that aligns with China's two centenary goals DIA Defense Intelligence Agency director Lieutenant General Robert Ashley emphasized that China Military Power 2019 published and released by the DIA on 15 January 2019 showed China's evolution from a domestically oriented force to a global one He told reporters the PLA was changing from a defensive inflexible ground based force charged with domestic and peripheral security responsibilities to a joint highly agile expeditionary and power projecting arm of Chinese foreign policy that engages in military diplomacy and operations across the globe Gabriel Black reported on 30 January 2019 on the World Socialist Web Site 14 According to President Xi the PLA's military mechanization will basically be achieved with advanced IT application and much enhanced strategic capabilities by 2020 on the eve of the CPC's centenary on 1 July 2021 The people's armed forces will be transformed into a world class military by mid 21st century to mark the centenary of the founding of New China the People's Republic of China the PRC on 1 October 2049 In his 56 page statement to the Senate Armed Services Committee on 15 March 2018 Adm Harry B Harris Jr then naval head of US Pacific Command USPACOM wrote that on the current trajectory the PLA will likely attain its goals of completing military modernisation by 2033 and achieving world class status by 2049 well ahead of the projected completion dates With the companion volume CHINA'S RENAISSANCE the following narrative adumbrates the saga of CHINA'S LONG MARCH OF MODERNISATION and the phenomenal transformation of the world's most populous nation of nearly one and a half billion Chinese from abject poverty

to its dream of becoming a fully developed and modernized country by mid 21st century 15 It s the greatest development story in human history Strategic Foresight Sarah Lai-Yin Cheah,2020-03-09 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 Sathitkunararat 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 **Automation and Its Macroeconomic**

Consequences Klaus Prettner, David E. Bloom, 2020-06-19 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 *China Internet Development Report 2017*

Chinese Academy of Cyberspace Studies, 2018-09-25 This book provides a comprehensive review of China s Internet development in the past 23 years since the country s first access to the Internet especially since the 18th National Congress of the Communist Party of China It offers a systematic account of China s experience in Internet development and governance and establishes and presents China s Internet Development Index System covering network infrastructure information technology digital economy e governance cyber security and international cyberspace governance Research Handbook on the Law of Artificial Intelligence Woodrow Barfield, Ugo Pagallo, 2018-12-28 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 *Sustainable Development Goal Advancement Through Digital Innovation in the Service Sector*

Nadda, Vipin, Tyagi, Pankaj Kumar, Moniz Vieira, Rubina, Tyagi, Priyanka, 2023-10-16 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

The Routledge Handbook of the Economics of Ageing David E. Bloom,Alfonso Sousa-Poza,Uwe Sunde,2023-08-16 Ageing populations pose some of the foremost global challenges of this century Drawing on an international pool of scholars this cutting edge Handbook surveys the micro macro and institutional aspects of the economics of ageing Structured in seven parts the volume addresses a broad range of themes including health economics labour economics pensions and social security generational accounting wealth inequality and regional perspectives Each chapter combines a succinct overview of the state of current research with a sketch of a promising future research agenda This Handbook will be an essential resource for advanced students researchers and policymakers looking at the economics of ageing across the disciplines of economics demography public policy public health and beyond

Digitale Transformation der Arbeitswelt Cornelia Gerdenitsch,Christian Korunka,2018-12-12 Dieses Werk bietet einen wertvollen Einblick über die durch Digitalisierung ausgelösten Veränderungen in der Arbeitswelt Basierend auf psychologischen Theorien und empirischen Ergebnissen vermittelt es Ihnen ein tieferes Verständnis über die Folgen einer digitalen Transformation hinsichtlich Erleben und Verhalten für Berufstätige Zahlreiche Beispiele dienen zur praxisnahen Veranschaulichung der Sachverhalte und Fragen zur Thematik regen zum Weiterdenken an So eröffnet Ihnen das Werk einen Einblick in praxisrelevante Themen wie Besonderheiten digital transformierter Arbeit im Bereich von Koordination Führung Kommunikation und Kollaboration belastende Aspekte von flexibler Arbeit Gestaltung von neuen Arbeitsplatzkonzepten Kommunikation und Koordination mit intelligenten Maschinen und Robotern Herausforderungen für das Management Die Autoren nehmen Sie mit in eine Diskussion über verschiedene Arbeitsplatzkonzepte und leiten entsprechende Gestaltungsansätze ab Die Zielgruppen Dieses Buch richtet sich an alle die sich mit dem Thema Digitalisierung bzw digitale Transformation im Kontext von Arbeit beschäftigen Führungskräfte CEOs sowie Organisations und PersonalentwicklerInnen erlangen dadurch ein besseres Verständnis über die Konsequenzen dieser Veränderungen auf die arbeitenden Menschen Das Buch kann als Grundlage für Lehrveranstaltungen an Universitäten und Fachhochschulen im Bereich Arbeits Organisations und Wirtschaftspsychologie und Betriebswirtschaftslehre herangezogen werden Die AutorInnen Mag Dr Cornelia Gerdenitsch ist Wissenschaftlerin am Austrian Institute of Technology AIT Center for Technology Experience Sie beschäftigt sich mit Fragen zur Interaktion zwischen Mensch und Technologie im Kontext von Arbeit Prof Dr Christian Korunka ist Professor für Arbeits und Organisationspsychologie am Institut für Angewandte Psychologie Arbeit Bildung Wirtschaft an der Fakultät für Psychologie der Universität Wien

Industrial Revolution 4.0 Stanisław Mazur,2022-09-28 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 *Working in Digital and Smart Organizations* Edoardo Ales, Ylenia Curzi, Tommaso Fabbri, Olga Rymkevich, Iacopo Senatori, Giovanni Solinas, 2018-05-28 Contributing to recent debate on the emergence of digital and agile work this book explores the implications for labour and employment relations within and beyond organizational boundaries Taking a multidisciplinary approach to the key issues and challenges of digitalization this collection covers topics such as the gig economy crowdworking and Industry 4 0 Theory and analysis are combined as the authors examine the impact of digital and smart work on organization HRM and labour law With comprehensive empirical evidence for those interested in understanding the more complex trajectories of today s transforming work relationships this book will not only appeal to students and academics but also to policy makers trade unionists and employers organizations **Startups and Robots** Cséfalvay Zoltán, 2024-08-16 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 Borb la Brosig Zolt n Cs falvay Csaba Krist f Johany k Viktor L z r Csik B lint P lfai Orsolya Sz kely Zolt n Szombathy M t Ujv rosi Robots, Healthcare, and the Law Eduard Fosch-Villaronga,2019-11-04 The integration of robotic systems and artificial intelligence into healthcare settings is accelerating As these technological developments interact socially with children the elderly or the disabled they may raise concerns besides mere physical safety concerns that include data protection inappropriate use of emotions invasion of privacy autonomy suppression decrease in human interaction and cognitive safety Given the novelty of these technologies and the uncertainties surrounding the impact of care automation it is unclear how the law should respond This book investigates the legal and regulatory implications of the growing use of personal care robots for healthcare purposes It explores the interplay between various aspects of the law including safety data protection responsibility transparency autonomy and dignity and it examines different robotic and AI systems such as social therapy robots physical assistant robots for rehabilitation and wheeled passenger carriers Highlighting specific problems and challenges in regulating complex cyber physical systems in concrete healthcare applications it critically assesses the adequacy of current industry standards and emerging regulatory initiatives for robots and AI After analyzing the potential legal and ethical issues associated with personal care robots it concludes that the primarily principle based approach of recent law and robotics studies is too abstract to be as effective as required by the personal care context Instead it recommends bridging the gap between general legal principles and their applicability in concrete robotic and AI technologies with a risk based approach using impact assessments As the first book to compile both legal and regulatory aspects of personal care robots this book will be a valuable addition to the literature on robotics artificial intelligence human robot interaction law and philosophy of technology

Tourism and Hospitality for Sustainable Development Emmanuel Ndhlovu,Kaitano Dube,Tawanda

Makuyana,2024-09-12 The travel and hospitality industry in the 21st century cannot be conceived planned advertised run or researched without the use of digital technology and innovation Sustainable development in this sector cannot be achieved without considering the Fourth Industrial Revolution The use of technology not only enhances the industry s profitability but also helps it to respond effectively to pressing global sustainability issues such as pandemics climate change energy crises workforce shortages and hyperinflation Furthermore technology allows the sector to fully evaluate its current and future economic social and environmental impacts addressing the needs of tourists businesses the environment and destinations However implementing technology is not a simple process and involves various opportunities costs and challenges that differ depending on the geopolitical and socio economic context With the drive towards disability inclusion digitalisation technological innovations and inventions can play a significant role in universal design and reasonable accommodation for

older people and populations with disabilities in the Global North and South such forms one of the key pillars of accessible tourism and hospitality In the context of the above and in response to the thoughtful need for new and sustained study of the developments interrelationships potentialities of the topic and synergies this edited book explores the trends opportunities challenges and complexities of digitalisation and technology integration in the tourism and hospitality industry as well as strategic shifts that will contribute to emerging research streams The book comprises contributions that generate theoretical insights empirical findings and evidence based recommendations by focusing on emerging and forecasted technologies used in the tourism and hospitality industry such as blockchains robots Artificial Intelligence Virtual Reality big data and analytics The aim is to provide a better understanding of how disruptive technologies and digitalisation are currently being utilised and how they currently and potentially influence various stakeholder groups as well as their future possibilities and impossibilities The third volume in a three volume set primarily covers how these new technologies impact consumers and employees of tourism related services

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