

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.

Advances in Design, Simulation and Manufacturing III Springer

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.

Regional Economic Outlook, October 2018, Asia Pacific Basic Books

Intensive study of small firms in industrial clusters and locations on how to create jobs and achieve Make in India goals.

US-China Tech War and the Practice of Digital Statecraft Springer

As Industry 4.0 brings on a new bout of transformation and fundamental changes in various industries, the traditional manufacturing and production methods are falling to the wayside. Industrial processes must embrace modern technology and the most recent trends to keep up with the times. With "smart factories"; the automation of information and data; and the inclusion of IoT, AI technologies, robotics, and cloud computing comes new challenges to tackle. These changes are creating new threats in security, reliability, the regulations around legislation and standardization of technologies, malfunctioning devices or operational disruptions, and more. These effects span a variety of industries and need to be discussed. *Research Anthology on Cross-Industry Challenges of Industry 4.0* explores the challenges that have risen as multidisciplinary industries adapt to the Fourth Industrial Revolution. With a shifting change in technology, operations, management, and business models, the impacts of Industry 4.0 and digital transformation will be long-lasting and will forever change the face of manufacturing and production. This book highlights a cross-industry view of these challenges, the impacts they have, potential solutions, and the technological advances that have brought about these new issues. It is ideal for mechanical engineers, electrical engineers, manufacturers, supply chain managers, logistics specialists, investors, managers, policymakers, production scientists, researchers, academicians, and students looking for cross-industry research on the challenges associated with Industry 4.0.

Select Proceedings of Asian MMS 2018 Springer Nature

Global growth for 2018–19 is projected to remain steady at its 2017 level, but its pace is less vigorous than projected in April and it has become less balanced. Downside risks to global growth have risen in the past six months and the potential for upside surprises has receded. Global growth is projected at 3.7 percent for 2018–19—0.2 percentage point lower for both years than forecast in April. The downward revision reflects surprises that suppressed activity in early 2018 in some major advanced economies, the negative effects of the trade measures implemented or approved between April and mid-September, as well as a weaker outlook for some key emerging market and developing economies arising from country-specific factors, tighter financial conditions, geopolitical tensions, and higher oil import bills. The balance of risks to the global growth forecast has shifted to the downside in a context of elevated policy uncertainty. Several of the downside risks highlighted in the April 2018 World Economic Outlook (WEO)—such as rising trade barriers and a reversal of capital flows to emerging market economies with weaker fundamentals and higher political risk—have become more pronounced or have partially materialized. Meanwhile, the potential for upside surprises has receded, given the tightening of financial conditions in some parts of the world, higher trade costs, slow implementation of reforms recommended in the past, and waning growth momentum.

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The Tesla Way Springer

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 June 24–26, 2021. 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; effectiveness and logistics systems; smart grids; nonlinear systems; power, social and economic systems; education; and IoT. The book *New Technologies, Development and Application III* is oriented toward Fourth Industrial Revolution "Industry 4.0," implementation which improves many aspects of human life in all segments and leads to changes in business paradigms and production models. Further, new business methods are emerging and transforming production systems, transport, delivery, and consumption, which need to be monitored and implemented by every company involved in the global market.

Working in Digital and Smart Organizations Springer

The untold story of how restrictive policies are preventing China from becoming the world's largest economy Dexter Roberts lived in Beijing for two decades working as a reporter on economics, business and politics for Bloomberg Businessweek. In *The Myth of Chinese Capitalism*, Roberts explores the reality behind today's financially-ascendant China and pulls the curtain back on how the Chinese manufacturing machine is actually powered. He focuses on two places: the village of Binghuacun in the province of Guizhou, one of China's poorest regions that sends the highest proportion of its youth away to become migrants; and Dongguan, China's most infamous factory town located in Guangdong, home to both the largest number of migrant workers and the country's biggest manufacturing base. Within these two towns and the people that move between them, Roberts focuses on the story of the Mo family, former farmers-turned-migrant-workers who are struggling to make a living in a fast-changing country that relegates one-half of its people to second-class status via household registration, land tenure policies and inequality in education and health care systems. In *The Myth of Chinese Capitalism*, Dexter Roberts brings to life the problems that China and its people face today as they attempt to overcome a divisive system that poses a serious challenge to the country's future development. In so doing, Roberts paints a boot-on-the-ground cautionary picture of China for a world now held in its financial thrall.

New Technologies, Development and Application V International Monetary Fund

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.

Asia at the Forefront: Growth Challenges for the Next Decade and Beyond IGI Global

This book presents the proceedings of the 4th International Manufacturing Engineering Conference and 5th Asia Pacific Conference on Manufacturing Systems (IMEC-APCOMS 2019), held in Putrajaya, Malaysia, on 21–22 August 2019. Covering scientific research in the field of manufacturing engineering, with focuses on industrial engineering, materials, processes, the book appeals to researchers, academics, scientists, students, engineers and practitioners who are interested in the latest developments and applications related to manufacturing engineering.

Finance & Development, June 2018 Springer Nature

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.

China Internet Development Report 2017 Routledge

This book presents cutting-edge research and developments in the field of medical and biological engineering. It gathers the proceedings of the International Conference on Medical and Biological Engineering, CMBEBIH 2021, held partly virtually, partly physically, on April 21–24, 2021, from and in Mostar, Bosnia and Herzegovina. Focusing on the goal to 'Stay Focused', contributions report on both basic and applied research in a wide range of related fields, such as biomedical signal processing, medical physics and imaging, biosensors and micro/nanotechnologies, biomaterials, biomechanics and robotics, cardiorespiratory, endocrine and neural systems engineering. Novel models, methods and technologies for bio- and health informatics, as well as applications of machine learning and AI in health care, and advances in genetic engineering are also highlighted. All in all, this book provides academics and professionals with novel, practical solutions to solve the current problems in biomedical research and applications, and a source of inspiration for improving medicine and health care in the future.