

# Foreign Industry Analysis Of Critical Military And Commercial Technologies Artificial Intelligence

**Foreign Industry Analysis of Critical Military and Commercial Technologies** DIANE Publishing Company 1994-03-01 Addresses practices and significant activities of foreign industry leaders in superconductivity, and industry-government interaction. Emphasizes commercial applications for this critical technology.

**Artificial Intelligence, Automation, and the Economy** Executive Office of the President 2017-03-12 Advances in Artificial Intelligence (AI) technology and related fields have opened up new markets and new opportunities for progress in critical areas such as health, education, energy, economic inclusion, social welfare, and the environment. In recent years, machines have surpassed humans in the performance of certain tasks related to intelligence, such as aspects of image recognition. Experts forecast that rapid progress in the field of specialized artificial intelligence will continue. Although it is unlikely that machines will exhibit broadly-applicable intelligence comparable to or exceeding that of humans in the next 20 years, it is to be expected that machines will continue to reach and exceed human performance on more and more tasks. AI-driven automation will continue to create wealth and expand the American economy in the coming years, but, while many will benefit, that growth will not be costless and will be accompanied by changes in the skills that workers need to succeed in the economy, and structural changes in the economy. Aggressive policy action will be needed to help Americans who are disadvantaged by these changes and to ensure that the enormous benefits of AI and automation are developed by and available to all. Following up on the Administration's previous report, *Preparing for the Future of Artificial Intelligence*, which was published in October 2016, this report further investigates the effects of AI-driven automation on the U.S. job market and economy, and outlines recommended policy responses. This report was produced by a team from the Executive Office of the President including staff from the Council of Economic Advisers, Domestic Policy Council, National Economic Council, Office of Management and Budget, and Office of Science and Technology Policy. The analysis and recommendations included herein draw on insights learned over the course of the Future of AI Initiative, which was announced in May of 2016, and included Federal Government coordination efforts and cross-sector and public outreach on AI and related policy matters.

**Department of Defense Authorization for Appropriations for Fiscal Years 1993 and the Future Years Defense Program** United States. Congress. Senate. Committee on Armed Services 1992

**Regulating Artificial Intelligence in Industry** Damian M. Bielicki 2021-12-24 Artificial Intelligence (AI) has augmented human activities and unlocked opportunities for many sectors of the economy. It is used for data management and analysis, decision making, and many other aspects. As with most rapidly advancing technologies, law is often playing a catch up role so the study of how law interacts with AI is more critical now than ever before. This book provides a detailed qualitative exploration into regulatory aspects of AI in industry. Offering a unique focus on current practice and existing trends in a wide range of industries where AI plays an increasingly important role, the work contains legal and technical analysis performed by 15 researchers and practitioners from different institutions around the world to provide an overview of how AI is being used and regulated across a wide range of sectors, including aviation, energy, government, healthcare, legal, maritime, military, music, and others. It addresses the broad range of aspects, including privacy, liability, transparency, justice, and others, from the perspective of different jurisdictions. Including a discussion of the role of AI in industry during the Covid-19 pandemic, the chapters also offer a set of recommendations for optimal regulatory interventions. Therefore, this book will be of interest to academics, students and practitioners interested in technological and regulatory aspects of AI.

**Chinese Power and Artificial Intelligence** William C. Hannas 2022-07-29 This book provides a comprehensive account of Chinese AI in its various facets, based on primary Chinese-language sources. China's rise as an AI power is an event of importance to the world and a potential challenge to liberal democracies. Filling a gap in the literature, this volume is fully documented, data-driven, and presented in a scholarly format suitable for citation and for supporting downstream research,

while also remaining accessible to laypersons. It brings together 15 recognized international experts to present a full treatment of Chinese artificial intelligence. The volume contains chapters on state, commercial, and foreign sources of China's AI power; China's AI talent, scholarship, and global standing; the impact of AI on China's development of cutting-edge disciplines; China's use of AI in military, cyber, and surveillance applications; AI safety, threat mitigation, and the technology's likely trajectory. The book ends with recommendations drawn from the authors' interactions with policymakers and specialists worldwide, aimed at encouraging AI's healthy development in China and preparing the rest of the world to engage with it. This book will be of much interest to students of Chinese politics, science and technology studies, security studies and international relations.

**Artificial Intelligence for Digitising Industry - Applications** Ovidiu Vermesan 2021-09-30 It covers research, and innovation to enable the development and deployment of AI, IIoT, edge computing, and digital twin technologies in industrial environments.

*Commerce, Justice, Science, and Related Agencies Appropriations for 2008* United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies 2007

**Artificial Intelligence** Jacob Parakilas 2018 "The rise of AI must be better managed in the near term in order to mitigate longer term risks and to ensure that AI does not reinforce existing inequalities"--Publisher.

**Russia-China Relations** Sarah Kirchberger 2022-06-15 This open access book examines Russia-China relations across a variety of civilian and military areas of cooperation. Leading experts in the field present empirical case studies covering a wide range of strategic cooperation areas between Russia and China, such as technological, military, economic and political cooperation. The contributing authors shed new light on Chinese and Russian strategic goals, external push and pull factors, and mutual perception shifts, and discuss the options for Western countries to influence this development. This book analyses the evolution of the relationship since the watershed moment of the Crimean crisis in 2014, and whether or not a full-blown military alliance, as hinted in late 2020 by President Putin, is indeed a realistic scenario for which NATO will have to prepare. It will appeal to students and scholars of international relations, political decision-makers, as well as anyone interested in Eurasian politics and the potential military-strategic impact of a Russian-Chinese alliance for NATO.

**Department of Defense Authorization for Appropriations for Fiscal Year 1996 and the Future Years Defense Program: Acquisition and technology** United States. Congress. Senate. Committee on Armed Services 1996

**Export Administration Annual Report ... and ... Report on Foreign Policy Export Controls** United States. Bureau of Export Administration 1992

Export Administration Annual Report United States. Office of Export Administration 1994

**AI Tools and Electronic Virtual Assistants for Improved Business Performance** Christian Graham 2020-12-18 Artificial intelligence (AI) is already being used in many industries globally and continues to permeate itself in many areas of business, leaving many managers, leaders, and organizations wondering what impact it will have on them and their businesses. Therefore, it is important to understand the history of AI, the AI technologies available today, the technologies currently being developed, how AI is implemented in business, AI-human interaction, and what impact AI has and will have on global labor. *AI Tools and Electronic Virtual Assistants for Improved Business Performance* is a critical reference book that provides relevant theoretical frameworks and the latest empirical research findings on AI history, implementation, and the impact on human behavior and human labor. The book explores how AI is helping individuals and businesses be more informed and more productive by bringing in new research on AI in business, discussing new innovations, and sharing its application across various industries. While highlighting specific topics such as e-commerce, sports management, criminal law, global labor, and more, this book is ideally intended for business managers, leaders, and organizations along with practitioners, stakeholders, researchers,

academicians, and students who want to improve their understanding of AI in business.

**Department of Defense Authorization for Appropriations for Fiscal Year 1993 and the Future Years Defense Program** United States.

Congress. Senate. Committee on Armed Services 1992

**Foreign Industry Analysis of Critical Military and Commercial**

**Technologies** DIANE Publishing Company 1994-03-01 Addresses practices and significant activities of foreign industry leaders in flexible manufacturing systems, and industry-government interaction.

Emphasizes commercial applications for this critical technology.

**Militarizing Artificial Intelligence** Nik Hynek 2022-07-01 This book examines the military characteristics and potential of Artificial Intelligence (AI) in the new global revolution in military affairs. Offering an original perspective on the utilization, imagination, and politics of AI in the context of military development and weapons regulation, the work provides a comprehensive response to the question of how we might reflect on the AI revolution in warfare and what can be said about the ways in which this has been handled. In the first part of the book, AI is accommodated, both theoretically and empirically, in the strategic context of the 'Revolution in Military Affairs' (RMA). The book offers a novel understanding of autonomous weapons as multi-layered composite systems, pointing to a complex, non-linear interplay between evolutionary and revolutionary dynamics. In the second section, the book provides an impartial analysis of the related politics and operations of power, whereby increases in military budgets and R&D of the great powers are met and countered by advocacy networks and scientists campaigning for a ban on lethal autonomous weapons. As such, it moves beyond popular caricatures of 'killer robots' and points out some of the problems which result from over-reliance on such imagery. This book will be of much interest to students of strategic studies, critical security studies, arms control and disarmament, science and technology studies and general International Relations.

**Global Trends 2040** National Intelligence Council 2021-03 "The ongoing COVID-19 pandemic marks the most significant, singular global disruption since World War II, with health, economic, political, and security implications that will ripple for years to come." -Global Trends 2040 (2021) Global Trends 2040-A More Contested World (2021), released by the US National Intelligence Council, is the latest report in its series of reports starting in 1997 about megatrends and the world's future. This report, strongly influenced by the COVID-19 pandemic, paints a bleak picture of the future and describes a contested, fragmented and turbulent world. It specifically discusses the four main trends that will shape tomorrow's world: - Demographics-by 2040, 1.4 billion people will be added mostly in Africa and South Asia. - Economics-increased government debt and concentrated economic power will escalate problems for the poor and middleclass. - Climate-a hotter world will increase water, food, and health insecurity. - Technology-the emergence of new technologies could both solve and cause problems for human life. Students of trends, policymakers, entrepreneurs, academics, journalists and anyone eager for a glimpse into the next decades, will find this report, with colored graphs, essential reading.

**Innovation and National Security** Adam Segal 2019-09-18 For the past three-quarters of a century, the United States has led the world in technological innovation and development. The nation now risks falling behind its competitors, principally China. The United States needs to advance a national innovation strategy to ensure it remains the predominant power in a range of emerging technologies. *Innovation and National Security: Keeping Our Edge* outlines a strategy based on four pillars: restoring federal funding for research and development, attracting and educating a science and technology workforce, supporting technology adoption in the defense sector, and bolstering and scaling technology alliances and ecosystems. Failure could lead to a future in which rivals strengthen their militaries and threaten U.S. security interests, and new innovation centers replace the United States as the source of original ideas and inspiration for the world.

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**Artificial intelligence and the future of warfare** James Johnson 2021-09-14 This volume offers an innovative and counter-intuitive study of how and why artificial intelligence-infused weapon systems will affect the strategic stability between nuclear-armed states. Johnson demystifies the hype surrounding artificial intelligence (AI) in the context of nuclear

weapons and, more broadly, future warfare. The book highlights the potential, multifaceted intersections of this and other disruptive technology - robotics and autonomy, cyber, drone swarming, big data analytics, and quantum communications - with nuclear stability. Anticipating and preparing for the consequences of the AI-empowered weapon systems are fast becoming a critical task for national security and statecraft. Johnson considers the impact of these trends on deterrence, military escalation, and strategic stability between nuclear-armed states - especially China and the United States. The book draws on a wealth of political and cognitive science, strategic studies, and technical analysis to shed light on the coalescence of developments in AI and other disruptive emerging technologies. Artificial intelligence and the future of warfare sketches a clear picture of the potential impact of AI on the digitized battlefield and broadens our understanding of critical questions for international affairs. AI will profoundly change how wars are fought, and how decision-makers think about nuclear deterrence, escalation management, and strategic stability - but not for the reasons you might think.

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**Artificial Intelligence and Its Contexts** Anna Visvizi 2021-11-28 This book offers a comprehensive approach to the question of how artificial intelligence (AI) impacts politics, economy, and the society today. In this view, it is quintessential for understanding the complex nature of AI and its role in today's world. The book has been divided into three parts. Part one is devoted to the question of how AI will be used for security and defense purposes, including combat in war zones. Part two looks at the value added of AI and machine learning for decision-making in the fields of politics and business. Part three consists of case studies—covering the EU, the USA, Saudi Arabia, Portugal, and Poland—that discuss how AI is being used in the realms of politics, security and defense. The discussion in the book opens with the question of the nature of AI, as well as of ethics and the use of AI in combat. Subsequently, the argument covers issues as diverse as the militarization of AI, the use of AI in strategic studies and military strategy design. These topics are followed by an insight into AI and strategic communication (StratCom), including disinformation, as well as into AI and finance. The case-studies included in part 3 of the book offer a captivating overview of how AI is being employed to stimulate growth and development, to promote data- and evidence-driven policy-making, to enable efficient and inclusive digital transformation and other related issues. Written by academics and practitioners in an academically sound, yet approachable manner, this volume queries issues and topics that form the thrust of processes that transform world politics, economics and society. As such, this volume will serve as the primer for students, researchers, lectures and other professionals who seek to understand and engage with the variety of issues AI implicates.

**Applications of Artificial Intelligence in Business, Education and Healthcare** Allam Hamdan 2021-07-12 This book focuses on the implementation of Artificial Intelligence in Business, Education and Healthcare, It includes research articles and expository papers on the applications of Artificial Intelligence on Decision Making, Entrepreneurship, Social Media, Healthcare, Education, Public Sector, FinTech, and RegTech. It also discusses the role of Artificial Intelligence in the current COVID-19 pandemic, in the health sector, education, and others. It also discusses the impact of Artificial Intelligence on decision-making in vital sectors of the economy.

**Artificial Intelligence and National Security** Congressional Research Service 2019-02-02 Artificial intelligence (AI) is a rapidly growing field of technology with potentially significant implications for national security. As such, the U.S. Department of Defense (DOD) and other nations are developing AI applications for a range of military functions. AI research is underway in the fields of intelligence collection and analysis, logistics, cyber operations, information operations, command and control, and in a variety of semi-autonomous and autonomous vehicles. Already, AI has been incorporated into military operations in Iraq and Syria. Congressional action has the potential to shape the technology's development further, with budgetary and legislative decisions influencing the growth of military applications as well as the pace of their adoption. AI technologies present unique challenges for military integration, particularly because the bulk of AI development is happening in the commercial sector. Although AI is not unique in this

regard, the defense acquisition process may need to be adapted for acquiring emerging technologies like AI. In addition, many commercial AI applications must undergo significant modification prior to being functional for the military. A number of cultural issues also challenge AI acquisition, as some commercial AI companies are averse to partnering with DOD due to ethical concerns, and even within the department, there can be resistance to incorporating AI technology into existing weapons systems and processes. Potential international rivals in the AI market are creating pressure for the United States to compete for innovative military AI applications. China is a leading competitor in this regard, releasing a plan in 2017 to capture the global lead in AI development by 2030. Currently, China is primarily focused on using AI to make faster and more well-informed decisions, as well as on developing a variety of autonomous military vehicles. Russia is also active in military AI development, with a primary focus on robotics. Although AI has the potential to impart a number of advantages in the military context, it may also introduce distinct challenges. AI technology could, for example, facilitate autonomous operations, lead to more informed military decisionmaking, and increase the speed and scale of military action. However, it may also be unpredictable or vulnerable to unique forms of manipulation. As a result of these factors, analysts hold a broad range of opinions on how influential AI will be in future combat operations. While a small number of analysts believe that the technology will have minimal impact, most believe that AI will have at least an evolutionary-if not revolutionary-effect.

*Technological Trends in the AI Economy* Elena N. Makarenko 2023-03-03

This book is devoted to the study of artificial intelligence from a new perspective - not just a technology but a social institution with complex social connections and relationships. The book systematically highlights technological trends of the artificial intelligence economy and considers all the components of its cascade effect with an overview of international experience and substantiation of promising ways of adapting to the modern stage of technological transit of economic systems. The cascade effect is understood as a chain of interdependent events that are triggered as artificial intelligence takes root in society and the economy. Among the technological trends (current areas of the practical application of artificial intelligence), highlighted in the book, are "smart" homes, digital regions, the use of artificial intelligence to ensure cybersecurity, as well as the optimization of business processes based on artificial intelligence. The book interprets the economics of artificial intelligence as a result of the transition to a digital technological order. A review of modern experience and regulatory perspectives of the institutionalization of the artificial intelligence economy is carried out. The legal framework for combating cyber threats in the artificial intelligence economy has been determined. The promising frameworks for using artificial intelligence in various branches of industry are presented. The book provides practical examples, case studies and proposed frameworks for using AI in various sectors of the economy, which allows using the book as a practical guide to managing the artificial intelligence economy.

*Artificial Intelligence and the Future of Defense* Stephan De Spiegeleire 2017-05-17

Artificial intelligence (AI) is on everybody's minds these days. Most of the world's leading companies are making massive investments in it. Governments are scrambling to catch up. Every single one of us who uses Google Search or any of the new digital assistants on our smartphones has witnessed first-hand how quickly these developments now go. Many analysts foresee truly disruptive changes in education, employment, health, knowledge generation, mobility, etc. But what will AI mean for defense and security? In a new study HCSS offers a unique perspective on this question. Most studies to date quickly jump from AI to autonomous (mostly weapon) systems. They anticipate future armed forces that mostly resemble today's armed forces, engaging in fairly similar types of activities with a still primarily industrial-kinetic capability bundle that would increasingly be AI-augmented. The authors of this study argue that AI may have a far more transformational impact on defense and security whereby new incarnations of 'armed force' start doing different things in novel ways. The report sketches a much broader option space within which defense and security organizations (DSOs) may wish to invest in successive generations of AI technologies. It suggests that some of the most promising investment opportunities to start generating the sustainable security effects that our polities, societies and economies expect may lie in in the realms of prevention and resilience. Also in those areas any large-scale application of AI will have to result from a preliminary open-minded (on all sides) public debate on its legal, ethical and privacy implications. The authors submit, however,

that such a debate would be more fruitful than the current heated discussions about 'killer drones' or robots. Finally, the study suggests that the advent of artificial super-intelligence (i.e. AI that is superior across the board to human intelligence), which many experts now put firmly within the longer-term planning horizons of our DSOs, presents us with unprecedented risks but also opportunities that we have to start to explore. The report contains an overview of the role that 'intelligence' - the computational part of the ability to achieve goals in the world - has played in defense and security throughout human history; a primer on AI (what it is, where it comes from and where it stands today - in both civilian and military contexts); a discussion of the broad option space for DSOs it opens up; 12 illustrative use cases across that option space; and a set of recommendations for - especially - small- and medium sized defense and security organizations.

**Beyond Spinoff** John A. Alic 1992 In a rapidly changing world, there needs to be a critical reappraisal of traditional military/industry relationships. This book, packed with data, industry-specific case studies, and sophisticated analysis, is such an appraisal. It will be required reading for technology managers and policymakers in industry and government, as well as those concerned with technological and economic competitiveness.

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**American Defense Policy** Miriam Krieger 2021-08-10 A vital text for understanding the twenty-first-century battlefield and the shifting force structure, this book prepares students to think critically about the rapidly changing world they'll inherit. *American Defense Policy*, first published in 1965 under the leadership of Brent Scowcroft, has been a mainstay in courses on political science, international relations, military affairs, and American national security for more than 50 years. This updated and thoroughly revised ninth edition, which contains about 30% all-new content, considers questions of continuity and change in America's defense policy in the face of a global climate beset by geopolitical tensions, rapid technological change, and terrorist violence. The book is organized into three parts. Part I examines the theories and strategies that shape America's approach to security policy. Part II dives inside the defense policy process, exploring the evolution of contemporary civil-military relations, the changing character of the profession of arms, and the issues and debates in the budgeting, organizing, and equipping process. Part III examines how purpose and process translate into American defense policy. This invaluable and prudent text remains a classic introduction to the vital security issues the United States has faced throughout its history. It breaks new ground as a thoughtful and comprehensive starting point to understand American defense policy and its role in the world today. Contributors: Gordon Adams, John R. Allen, Will Atkins, Deborah D. Avant, Michael Barnett, Sally Baron, Jeff J.S. Black, Jessica Blankshain, Hal Brands, Ben Buchanan, Dale C. Copeland, Everett Carl Dolman, Jeffrey Donnithorne, Daniel W. Drezner, Colin Dueck, Eric Edelman, Martha Finnemore, Lawrence Freedman, Francis Fukuyama, Michael D. Gambone, Lynne Chandler Garcia, Bishop Garrison, Erik Gartzke, Mauro Gilli, Robert Gilpin, T.X. Hammes, Michael C. Horowitz, G. John Ikenberry, Bruce D. Jones, Tim Kane, Cheryl A. Kearney, David Kilcullen, Michael P. Kreuzer, Miriam Krieger, Seth Lazar, Keir A. Lieber, Conway Lin, Jon R. Lindsay, Austin Long, Joseph S. Lupa Jr., Megan H. MacKenzie, Mike J. Mazarr, Senator John McCain, Daniel H. McCauley, Michael E. McInerney, Christopher D. Miller, James N. Miller, John A. Nagl, Henry R. Nau, Renée de Nevers, Joseph S. Nye Jr., Michael E. O'Hanlon, Mancur Olson Jr., Sue Payton, Daryl G. Press, Thomas Rid, John Riley, David Sacko, Brandon D. Smith, James M. Smith, Don M. Snider, Sir Hew Strachan, Michael Wesley, Richard Zeckhauser

**Export Administration Report** United States. Bureau of East-West Trade 1991

*Proceedings of the 2022 2nd International Conference on Economic Development and Business Culture (ICEDBC 2022)* Yushi Jiang 2023-05-11 This is an open access book. With the support of universities and the research of AEIC Academic Exchange Center, The 2nd International Conference on Economic Development and Business Culture (ICEDBC 2022) will be held in Dali from June 24th to 26th. Compared with previous conferences, it will discuss more in-depth economic independent innovation, open cooperation and innovative business culture under the background of the new development stage,

new situation and new journey era. There will be a broad exchange environment. Well-known experts, scholars or entrepreneurs in the field will be invited to make keynote reports. Contributing authors are also very welcome to actively participate in the conference and build an academic exchange ceremony.

*Export Administration* United States. Bureau of Export Administration 1991

**Report of the National Critical Technologies Panel** 1991-03

**At the Speed of Irrelevance** Al Naqvi 2022-08-02 Get the inside story of American Artificial Intelligence (AI) failure and fall: Learn how to reassume American AI leadership and win against China On the eve of the Sino-American great power competition General Mattis challenged America to move forward at the speed of relevance. To compete effectively America needed to excel in its AI capacity. The call fell on deaf ears - and years later the nation found itself sliding towards a state of irrelevance on the global stage. A series of blunders contributed to what President Biden calls American AI's "failing and falling behind." This is the story of American AI's fall from grace. Capturing the live moments of American excitement and mastery of AI to the tragedy of ending up behind China, the authors give a behind the scenes account of what transpired. Get an inside view on who dropped the ball at a time when America needed its best leadership. As the mystery unravels, it shows the great misses and deceptions, colossal mistakes, policy failures, and negligence that cost America its leadership position. This story could become the story of America's own decline and fall. But there is hope. In the past America has shown resilience to bounce back from the agony of defeat to win in the long run. This book gives a path to rebuild American AI and secure such a victory. Whether you are a business leader or a policy analyst, a supply chain expert or an academic, a congressman or an agency head *At the Speed of Irrelevance: How America Blew Its AI Leadership Position and How to Regain It* will change your thinking about your responsibility to your firms, agencies, and the country. This will be the most timely and patriotic book you will ever read.

**Foreign Industry Analysis of Critical Military and Commercial**

**Technologies** DIANE Publishing Company 1994-03-01 Addresses practices and significant activities of foreign industry leaders in optoelectronics, and industry-government interaction. Emphasizes commercial applications for this critical technology.

**Artificial Intelligence in Industry 4.0 and 5G Technology** Pandian Vasant 2022-07-20 Artificial Intelligence in Industry 4.0 and 5G Technology Explores innovative and value-added solutions for application problems in the commercial, business, and industry sectors As the pace of Artificial Intelligence (AI) technology innovation continues to accelerate, identifying the appropriate AI capabilities to embed in key decision processes has never been more critical to establishing competitive advantage. New and emerging analytics tools and technologies can be configured to optimize business value, change how an organization gains insights, and significantly improve the decision-making process across the enterprise. *Artificial Intelligence in Industry 4.0 and 5G Technology* helps readers solve real-world technological engineering optimization problems using evolutionary and swarm intelligence, mathematical programming, multi-objective optimization, and other cutting-edge intelligent optimization methods. Contributions from leading experts in the field present original research on both the theoretical and practical aspects of implementing new AI techniques in a variety of sectors, including Big Data analytics, smart manufacturing, renewable energy, smart cities, robotics, and the Internet of Things (IoT). Presents detailed information on meta-heuristic applications with a focus on technology and engineering sectors such as smart manufacturing, smart production, innovative cities, and 5G networks. Offers insights into the use of metaheuristic strategies to solve optimization problems in business, economics, finance, and industry where uncertainty is a factor. Provides guidance on implementing metaheuristics in different applications and hybrid technological systems. Describes various AI approaches utilizing hybrid meta-heuristics optimization algorithms, including meta-search engines for innovative research and hyper-heuristics algorithms for performance measurement. *Artificial Intelligence in Industry 4.0 and 5G Technology* is a valuable resource for IT specialists, industry professionals, managers and executives, researchers, scientists, engineers, and advanced students an up-to-date reference to innovative computing, uncertainty management, and optimization approaches.

**Export Administration Annual Report** United States. Bureau of Export Administration 1993

**Preparing for the Future of Artificial Intelligence** Committee on

Technology National Science and Technology Council, Committee on Technology 2016-10-30 Advances in Artificial Intelligence (AI) technology have opened up new markets and new opportunities for progress in critical areas such as health, education, energy, and the environment. In recent years, machines have surpassed humans in the performance of certain specific tasks, such as some aspects of image recognition.

Experts forecast that rapid progress in the field of specialized artificial intelligence will continue. Although it is very unlikely that machines will exhibit broadly-applicable intelligence comparable to or exceeding that of humans in the next 20 years, it is to be expected that machines will reach and exceed human performance on more and more tasks. As a contribution toward preparing the United States for a future in which AI plays a growing role, this report surveys the current state of AI, its existing and potential applications, and the questions that are raised for society and public policy by progress in AI. The report also makes recommendations for specific further actions by Federal agencies and other actors.

**Smart Analytics, Artificial Intelligence and Sustainable Performance Management in a Global Digitalised Economy** Pallavi

Tyagi 2023-05-29 The Covid 19 pandemic has created chaos in the business world and forced leaders to rethink their operational status quo. Balancing the physical and virtual spaces of the global digital economy has called for additional support from data-driven technologies like smart analytics and artificial intelligence.

**Strategic Stability: Contending Interpretations (Enlarged Edition)** Elbridge A. Colby

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