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Own the A.I. Revolution: Unlock Your Artificial Intelligence Strategy to Disrupt Your Competition-Neil Sahota 2019-05-22 Disrupt your industry, boost profitability, and grow your business with a powerful A.I. strategy. Artificial Intelligence (A.I.) is on the verge of disrupting every domain of human existence. What does that mean for your business? Everything. Building on the power of A.I. is the factor that will determine success or failure in the very near future—and this in-depth guide from the man who designed the A.I. system that famously won Jeopardy provides everything you need to be a leader in this revolution. Own the A.I. Revolution provides a future-forward look at A.I.—how it will look in the coming years, the countless business opportunities it will offer, the risks that come with it—and delivers the knowledge you need to navigate it all in real and practical ways. You'll learn how to: •Find the right off-the-shelf A.I. solutions for your needs•Perform a cost/benefit analysis of implementing A.I. into your business strategy•Train and test A.I. before fully committing•Assemble superior teams to steer your A.I. future•Ensure you remain current and ahead of the curve You'll also find interviews with today's top experts and A.I. thought leaders on the exciting ways organizations are already transforming themselves through this revolutionary technology. A.I. sounds scary to some, but the best business leaders see it as an opportunity—as a way not only to drive profits and outpace the competition, but to build value for customers and make the world a better place. It's time to face our brave new A.I.-driven world—and make sure you Own the A.I. Revolution!

The IAI Advantage-Thomas H. Davenport 2019-07-26 Cutting through the hype, a practical guide to using artificial intelligence for business benefits and competitive advantage. In The IAI Advantage, Thomas Davenport offers a guide to using artificial intelligence in business. He describes what technologies are available and how companies can use them for business benefits and competitive advantage. He cuts through the hype of the AI craze--remember when it seemed plausible that IBM's Watson could cure cancer?--to explain how businesses can put artificial intelligence to work now, in the real world. His key recommendation: don't go for the "moonshot" (curing cancer, or synthesizing all investment knowledge); look for the "low-hanging fruit" to make your company more efficient. Davenport explains that the business value AI offers is solid rather than sexy or splashy. AI will improve products and processes and make decisions better informed--important but largely invisible tasks. AI technologies won't replace human workers but augment their capabilities, with smart machines to work alongside smart people. AI can automate structured and repetitive work; provide extensive analysis of data through machine learning ("analytics on steroids"), and engage with customers and employees via chatbots and intelligent agents. Companies should experiment with these technologies and develop their own expertise. Davenport describes the major AI technologies and explains how they are being used, reports on the AI work done by large commercial enterprises like Amazon and Google, and outlines strategies and steps to becoming a cognitive corporation. This book provides an invaluable guide to the real-world future of business AI. A book in the Management on the Cutting Edge series, published in cooperation with MIT Sloan Management Review.

The Future of Management in an AI World-Jordi Canals 2019-10-07 Artificial intelligence (AI) is redefining the nature and principles of general management. The technological revolution is reshaping industries, disrupting existing business models, making traditional companies obsolete and creating social change. In response, the role of the manager needs to urgently evolve and adjust. Companies need to rethink their purpose, strategy, organisational design and decision-making rules. Crucially they will also need to consider how to nurture and develop the business leaders of the future and develop new ways to interact with society on issues such as privacy and trust. Containing international insights from leading figures from the world of management and technology, this book addresses the big challenges facing organisations, including: · Decision-making · Corporate strategy · People management and leadership · Organisational design Taking a holistic approach, this collection of expert voices provides valuable insight into how firms will discover and commit to what makes them unique in this new big data world, empowering them to create and sustain competitive advantage.

Introducing Consciousness-David Papineau 2015-03-14 'An excellent book' - Ted Honderich, Emeritus Professor of Philosophy of Mind and Logic at University College London (UCL) Introducing Consciousness provides a comprehensive guide to the current state of consciousness studies. It starts with the history of the philosophical relation between mind and matter, and proceeds to scientific attempts to explain consciousness in terms of neural mechanisms, cerebral computation and quantum mechanics. Along the way, readers will be introduced to zombies and Chinese Rooms, ghosts in machines and Erwin Schrodinger's cat.

The Artificial Intelligence Revolution-Louis Anthony Del Monte 2014-04 The Artificial Intelligence Revolution by Louis A. Del Monte is a warning regarding the threat new artificial intelligence (AI) technology poses to the survival of humankind. Will the future come down to man versus machine, when machines become more intelligent than humans? Will an artificial intelligence robot be your friend or foe? Scientists are working relentlessly at improving AI technology for the benefit of man. Evolved technology is everywhere--smart TVs, smart phones, and even smart houses. One day the artificial intelligence of these machines will match our own intelligence--and one day it will exceed it. We will have reached the "singularity," a point in time like no other. Then what? Will machines continue to serve us as the balance tips in their favor? These questions are addressed rigorously, their potentialities extrapolated for one reason--the survival of humankind. Are "strong" AI machines (SAMs) a new form of life? Should SAMs have rights? Do SAMs pose a threat to humankind? Del Monte and other AI experts predict that AI capabilities will develop into SAMs with abilities far beyond what human beings can even fathom. Will they serve us, or will SAMs take an entirely different viewpoint? That question and many more are tackled by Del Monte in this sobering look at the The Artificial Intelligence Revolution. -- Provided by publisher.

The Future of Management in an AI World-Jordi Canals 2019-09-21 Artificial Intelligence (AI) is redefining the nature and principles of general management. The technological revolution is reshaping industries, disrupting existing business models, making traditional companies obsolete and creating social change. In response, the role of the manager needs to urgently evolve and adjust. Companies need to rethink their purpose, strategy, organisational design and decision-making rules. Crucially they will also need to consider how to nurture and develop the business leaders of the future and develop new ways to interact with society on issues such as privacy and trust. Containing international insights from leading figures from the world of management and technology, this book addresses the big challenges facing organisations, including: · Decision-making · Corporate strategy · People management and leadership · Organisational design Taking a holistic approach, this collection of expert voices provides valuable insight into how firms will discover and commit to what makes them unique in this new big data world, empowering them to create and sustain competitive advantage.

The Ai Revolution-Crystal A. Taggart 2017-08-20 The AI revolution is here and it's transforming business. Companies like JP Morgan used an AI platform to perform 360,000 hours of work previously completed by lawyers. Robots replaced 140 employees for common IT service requests to perform 1.7 million requests per year. Unfortunately AI is an evolution. You can't just Next->Next->I Agree to create your AI platform. If you want to understand types of AI technologies such as machine learning, deep learning, robotic process automation, virtual agents, computer vision, and natural language processing and how these technologies can be used for business, this book is for you. In this book you'll learn about the types of technologies used in AI today, a summary of the technical landscape and how to implement these technologies. You'll also get an understanding problems and issues that can arise when planning your AI projects - from technical challenges to organizational change issues. The robots are coming and companies should prepare.

Democratization of Artificial Intelligence for the Future of Humanity-Chandrasekar Vuppalapati 2021-01-18 Artificial intelligence (AI) stands out as a transformational technology of the digital age. Its practical applications are growing very rapidly. One of the chief reasons AI applications are attaining prominence, is in its design to learn continuously, from real-world use and experience, and its capability to improve its performance. It is no wonder that the applications of AI span from complex high-technology equipment manufacturing to personalized exclusive recommendations to end-users. Many deployments of AI software, given its continuous learning need, require computation platforms that are resource intense, and have sustained connectivity and perpetual power through central electrical grid. In order to harvest the benefits of AI revolution to all of humanity, traditional AI software development paradigms must be upgraded to function effectively in environments that have resource constraints, small form factor computational devices with limited power, devices with intermittent or no connectivity and/or powered by non-perpetual source or battery power. The aim this book is to prepare current and future software engineering teams with the skills and tools to fully utilize AI capabilities in resource-constrained devices. The book introduces essential AI concepts from the perspectives of full-scale software development with emphasis on creating niche Blue Ocean small form factored computational environment products.

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.

Work in the Future-Robert Skidelsky 2020-03-22 This short, accessible book seeks to explore the future of work through the views and opinions of a range of expertise, encompassing economic, historical, technological, ethical and anthropological aspects of the debate. The transition to an automated society brings with it new challenges and a consideration for what has happened in the past; the editors of this book carefully steer the reader through future possibilities and policy outcomes, all the while recognising that whilst such a shift to a robotised society will be a gradual process, it is one that requires significant thought and consideration.

The Future of Leadership in the Age of AI-Marin Ivezic 2020-04-04 Artificial Intelligence (AI) is reality. The Fourth Industrial Revolution, or a Robot Apocalypse depending on whom you ask, is already underway. The transition has already started. But what it means in terms of leadership? How should leaders prepare for the dramatic shifts in the global workforce? The authors, emerging technology risk researchers and practitioners, demystify the processes behind this revolution. Rather than offering another sensationalistic, panic-inducing view on AI - or its overly-optimistic alternative - the authors explain the reality of AI implementation in business environments. The transformed economy will need a new kind of executives - motivators, innovators and social experimenters - those that have, paradoxically, developed their distinctly human skills. The Future of Leadership in the Age of AI clarifies those new roles and makes the transition easier.

The Future of the Cognitive Revolution-David Martel Johnson 1997 The basic idea of the particular way of understanding mental phenomena that has inspired the "cognitive revolution" is that, as a result of certain relatively recent intellectual and technological innovations, informed theorists now possess a more powerfully insightful comparison or model for mind than was available to any thinkers in the past. The model in question is that of software, or the list of rules for input, output, and internal transformations by which we determine and control the workings of a computing machine's hardware. Although this comparison and its many implications have dominated work in the philosophy, psychology, and neurobiology of mind since the end of the Second World War, it now shows increasing signs of losing its once virtually unquestioned preeminence. Thus we now face the question of whether it is possible to repair and save this model by means of relatively inessential "tinkering", or whether we must reconceive it fundamentally and replace it with something different. In this book, twenty-eight leading scholars from diverse fields of "cognitive science"-linguistics, psychology, neurophysiology, and philosophy- present their latest, carefully considered judgements about what they think will be the future course of this intellectual movement, that in many respects has been a watershed in our contemporary struggles to comprehend that which is crucially significant about human beings. Jerome Bruner, Noam Chomsky, Margaret Boden, Ulric Neisser, Rom Harre, Merlin Donald, among others, have all written chapters in a non-technical style that can be enjoyed and understood by an inter-disciplinary audience of psychologists, philosophers, anthropologists, linguists, and cognitive scientists alike.

The Intelligence Revolution-Bernard Marr 2020-08-13 Artificial Intelligence (AI) is here to stay. No longer confined to the world of science fiction, AI has infiltrated the mainstream and is the new electricity for business. Bestselling author, Bernard Marr, shows you how to harness and integrate it with your business strategy. We all know about driverless cars, automated production lines and chatbots but how do you ensure your business keeps up and where do you start? Bestselling author and strategy guru, Bernard Marr, argues that AI absolutely applies to your business and explains how to design an AI strategy that will guarantee its success. The Intelligence Revolution explores the opportunities and challenges that come with this monumental new taskforce that is defining the new standards of business. Guiding us through intelligent products, services and work processes, The Intelligence Revolution illustrates how new technologies are impacting customer experience, product and service design and work efficiency. Bernard Marr delights us with fascinating case studies of businesses excelling at maximizing the potential of AI like Netflix, Autodesk, Disney, Rolls Royce and Amazon. Don't be left behind. Instead, discover how to turbocharge your business.

The Culture of AI-Anthony Elliott 2019-01-15 In this ground-breaking book, Cambridge-trained sociologist Anthony Elliott argues that much of what passes for conventional wisdom about artificial intelligence is either ill-considered or plain wrong. The reason? The AI revolution is not so much about cyborgs and super-robots in the future, but rather massive changes in the here-and-now of everyday life. In The Culture of AI, Elliott explores how intelligent machines, advanced robotics, accelerating automation, big data and the Internet of Everything impact upon day-to-day life and contemporary societies. With remarkable clarity and insight, Elliott's examination of the reordering of everyday life highlights the centrality of AI to everything we do – from receiving Amazon recommendations to requesting Uber, and from getting information from virtual personal assistants to talking with chatbots. The rise of intelligent machines transforms the global economy and threatens jobs, but equally there are other major challenges to contemporary societies - although these challenges are unfolding in complex and uneven ways across the globe. The Culture of AI explores technological innovations from industrial robots to softbots, and from self-driving cars to military drones – and along the way provides detailed treatments of: The history of AI and the advent of the digital universe; automated technology, jobs and employment; the self and private life in times of accelerating machine intelligence; AI and new forms of social interaction; automated vehicles and new warfare; and, the future of AI. Written by one of the world's foremost social theorists, The Culture of AI is a major contribution to the field and a provocative reflection on one of the most urgent issues of our time. It will be essential reading to those working in a wide variety of disciplines including sociology, science and technology studies, politics, and cultural studies.

The AI Economy-Roger Bootle 2020-10-15

The AI Book-Ivana Bartoletti 2020-04-27 Written by prominent thought leaders in the global fintech space, The AI Book aggregates diverse expertise into a single, informative volume and explains what artifical intelligence really means and how it can be used across financial services today. Key industry developments are explained in detail, and critical insights from cutting-edge practitioners offer first-hand information and lessons learned. Coverage includes: · Understanding the AI Portfolio: from machine learning to chatbots, to natural language processing (NLP); a deep dive into the Machine Intelligence Landscape; examples across emerging technologies, rethinking enterprise, rethinking industries, rethinking humans; quantum computing and next-generation AI · AI experimentation and embedded usage, and the change in business model, value proposition, organisation, customer and co-worker experiences in today's Financial Services Industry · The future state of financial services and capital markets – what's next for the real-world implementation of AITech? · The innovating customer – users are not waiting for the financial services industry to work out how AI can re-shape their sector, profitability and competitiveness · Boardroom issues created and magnified by AI trends, including conduct, regulation & oversight in an algo-driven world, cybersecurity, diversity & inclusion, data privacy, the 'unbundled corporation' & the future of work, social responsibility, sustainability, and the new leadership imperatives · Ethical considerations of deploying AI solutions and why explainable AI is so important

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The Future of Work-Darrell M. West 2019-10-15 Looking for ways to handle the transition to a digital economy Robots, artificial intelligence, and driverless cars are no longer things of the distant future. They are with us today and will become increasingly common in coming years, along with virtual reality and digital personal assistants. As these tools advance deeper into everyday use, they raise the question--how will they transform society, the economy, and politics? If companies need fewer workers due to automation and robotics, what happens to those who once held those jobs and don't have the skills for new jobs? And since many social benefits are delivered through jobs, how are people outside the workforce for a lengthy period of time going to earn a living and get health care and social benefits? Looking past today's headlines, political scientist and cultural observer Darrell M. West argues that society needs to rethink the concept of jobs, reconfigure the social contract, move toward a system of lifetime learning, and develop a new kind of politics that can deal with economic dislocations. With the U.S. governance system in shambles because of political polarization and hyper-partisanship, dealing creatively with the transition to a fully digital economy will vex political leaders and complicate the adoption of remedies that could ease the transition pain. It is imperative that we make major adjustments in how we think about work and the social contract in order to prevent society from spiraling out of control. This book presents a number of proposals to help people deal with the transition from an industrial to a digital economy. We must broaden the concept of employment to include volunteering and parenting and pay greater attention to the opportunities for leisure time. New forms of identity will be possible when the "job" no longer defines people's sense of personal meaning, and they engage in a broader range of activities. Workers will need help throughout their lifetimes to acquire new skills and develop new job capabilities. Political reforms will be necessary to reduce polarization and restore civility so there can be open and healthy debate about where responsibility lies for economic well-being. This book is an important contribution to a discussion about tomorrow--one that needs to take place today.

The Future of Business-David Vandegrift 2019-10-07 We are in the midst of an artificial intelligence revolution. AI is now driving our cars, running our factories, and winning our game shows. There are many opportunities to take advantage of this nascent technology, but these opportunities require a knowledge of what AI is and how it can solve your problems. The Future of Business is your guide to the revolution. It will explain what AI is, where it came from, and how it can be used to solve a wide array of problems.

AI Superpowers-Kai-Fu Lee 2018-09-25 Introduction -- China's Sputnik moment -- Copycats in the Coliseum -- China's alternate Internet universe -- A tale of two countries -- The four waves of AI -- Utopia, dystopia, and the real AI crisis -- The wisdom of cancer -- A blueprint for human co-existence with AI -- Our global AI story

Economics of the Fourth Industrial Revolution-Nicholas Johnson 2020-10-26 This book applies cutting-edge economic analysis and social science to unpack the rich complexities and paradoxes of the Fourth Industrial Revolution. The book takes the reader on a bold, refreshing, and informative tour through its technological drivers, its profound impact on human ecosystems, and its potential for sustainable human development. The overarching message to the reader is that the Fourth Industrial Revolution is not merely something to be feared or survived; rather, this dramatic collision of technologies, disciplines, and ideas presents a magnificent opportunity for a generation of new pioneers to rewrite "accepted rules" and find new avenues to empower billions of people to thrive. This book will help readers to discern the difference between disruption and transformation. The reader will come away from this book with a deeply intuitive and highly contextual understanding of the core technological advances transforming the world as we know it. Beyond this, the reader will clearly appreciate the future impacts on our economies and social structures. Most importantly, the reader will receive an insightful and actionable set of guidelines to assist them in harnessing the Fourth Industrial Revolution so that both they and their communities may flourish. The authors do not primarily seek to make prescriptions for government policy, but rather to speak directly to people about what they can do for themselves, their families, and their communities to be future-proofed and ready to adapt to life in a rapidly evolving world ecosystem.

Artificial Intelligence Revolution-Robin Li 2020-09-22 The co-founder of Baidu explains how AI will transform human livelihood, from our economy and financial systems down to our daily lives. Written by Baidu cofounder Robin Li and prefaced by award-winning sci-fi writer Cixin Liu (author of The Three-Body Problem), Artificial Intelligence Revolution introduces Baidu's teams of top scientists and management as pioneers of movement toward AI. The book covers many of the latest AI-related ideas and technological developments, such as: Computational ability Big data resources Setting the basic standards of AI in research and development An introduction to the "super brain" Intelligent manufacturing Deep learning L4 automated vehicles Smart finance The book describes the emergence of a "smart" society powered by technology and reflects on the challenges the humanity is about to face. Li covers the most pressing AI-related ideas and technological developments, including: Will artificial intelligence replace human workers, and in what sectors of the economy? How will it affect healthcare and finance? How will daily human life change? Robin Li's Artificial Intelligence Revolution addresses these questions and more from the perspective of a pioneer of AI development. It's a must-read for anyone concerned about the emergence of a "smart" society powered by technology and the challenges humanity is about to face.

The Fourth Industrial Revolution-Klaus Schwab 2017 World-renowned economist Klaus Schwab, Founder and Executive Chairman of the World Economic Forum, explains that we have an opportunity to shape the fourth industrial revolution, which will fundamentally alter how we live and work. Schwab argues that this revolution is different in scale, scope and complexity from any that have come before. Characterized by a range of new technologies that are fusing the physical, digital and biological worlds, the developments are affecting all disciplines, economies, industries and governments, and even challenging ideas about what it means to be human. Artificial intelligence is already all around us, from supercomputers, drones and virtual assistants to 3D printing, DNA sequencing, smart thermostats, wearable sensors and microchips smaller than a grain of sand. But this is just the beginning: nanomaterials 200 times stronger than steel and a million times thinner than a strand of hair and the first transplant of a 3D printed liver are already in development. Imagine "smart factories" in which global systems of manufacturing are coordinated virtually, or implantable mobile phones made of biosynthetic materials. The fourth industrial revolution, says Schwab, is more significant, and its ramifications more profound, than in any prior period of human history. He outlines the key technologies driving this revolution and discusses the major impacts expected on government, business, civil society and individuals. Schwab also offers bold ideas on how to harness these changes and shape a better future–one in which technology empowers people rather than replaces them; progress serves society rather than disrupts it; and in which innovators respect moral and ethical boundaries rather than cross them. We all have the opportunity to contribute to developing new frameworks that advance progress.

Life 3.0-Max Tegmark 2017-08-29 New York Times Best Seller How will Artificial Intelligence affect crime, war, justice, jobs, society and our very sense of being human? The rise of AI has the potential to transform our future more than any other technology—and there's nobody better qualified or situated to explore that future than Max Tegmark, an MIT professor who's helped mainstream research on how to keep AI beneficial. How can we grow our prosperity through automation without leaving people lacking income or purpose? What career advice should we give today's kids? How can we make future AI systems more robust, so that they do what we want without crashing, malfunctioning or getting hacked? Should we fear an arms race in lethal autonomous weapons? Will machines eventually outsmart us at all tasks, replacing humans on the job market and perhaps altogether? Will AI help life flourish like never before or give us more power than we can handle? What sort of future do you want? This book empowers you to join what may be the most important conversation of our time. It doesn't shy away from the full range of viewpoints or from the most controversial issues—from superintelligence to meaning, consciousness and the ultimate physical limits on life in the cosmos.

AI in Talent Development-Margie Meacham 2020-12-15 Creating Transparent AI From agriculture to transportation, entertainment to medicine, and banking to social media, artificial intelligence (AI) is changing how humans do practically everything. We experience AI in our daily lives through our fitness trackers, home digital assistant systems, and curated news services, to name a few examples. For talent development, this is no different. The fields of artificial intelligence and talent development have been on a collision course for decades, and their convergence has already occurred. It has just taken many in our profession some time to recognize this fact. On the horizon, AI-powered innovations are transforming the workplace and the role of the talent development professional, affecting recruiting to training to compensation. As such, there are actions TD professionals should take now to prepare ourselves and our organizations for the evolving AI future. In AI in Talent Development, Margie Meacham describes the benefits, uses, and risks of AI technology and offers practical tools to strengthen and enhance learning and performance programs. In layman's terms, Meacham demonstrates how we can free time for ourselves by employing a useful robot "assistant," create a chatbot for specific tasks (such as a new manager bot, a sales coach bot, or new employee onboarding bot), and build personalized coaching tools from AI-processed big data. She concludes each of the six chapters with helpful tips and includes a resource guide with planning tools, templates, and worksheets. Meacham dispels fear of AI's black box—the term used to describe its unknowability and opacity—and points out ways AI can help us be better at creativity and critical thinking, what we humans do best.

The Centaur's Dilemma-James E. Baker 2020-12-01 Assessing the legal and practical questions posed by the use of artificial intelligence in national security matters The increasing use of artificial intelligence poses challenges and opportunities for nearly all aspects of society, including the military and other elements of the national security establishment. This book addresses how national security law can and should be applied to artificial intelligence, which enables a wide range of decisions and actions not contemplated by current law. James Baker, an expert in national security law and process, adopts a realistic approach in assessing how the law—even when not directly addressing artificial intelligence—can be used, or even misused, to regulate this new technology. His new book covers, among other topics, national security process, constitutional law, the law of armed conflict, arms control, and academic and corporate ethics. With its own background as a judge, he examines potential points of contention and litigation in an area where the law is still evolving and might not yet provide clear and certain answers. The Centaur's Dilemma also analyzes potential risks associated with the use of artificial intelligence in the realm of national security—including the challenges of machine-human interface, operating (or not operating) the national-security decision-making process at machine speed, and the perils of a technology arms race. Written in plain English, The Centaur's Dilemma will help guide policymakers, lawyers, and technology experts as they deal with the many legal questions that will arise when using artificial intelligence to plan and carry out the actions required for the nation's defense.

The Autonomous Revolution-William Davidow 2020-02-18 We are at the dawn of the Autonomous Revolution, a technological revolution as decisive as the Agricultural and Industrial Revolutions. Autonomous machines are capable of learning and adapting faster than humans and entirely on their own. And for the first time in human history we no longer require physical locations to work, play, shop, socialize, or be entertained. William Davidow and Michael Malone, authors of the seminal book The Virtual Corporation, explore the enormous implications of these developments. They show why increases in productivity no longer translate into increases in the GDP, how invisible algorithms control what you see and hear, and much more. Many of the book's recommendations—such as monetizing internet usage and making companies pay for personal information—are likely to be controversial, but this debate needs to begin now, before the Autonomous Revolution overcomes us.

The Fourth Age-Byron Reese 2020-03-17 As we approach a great turning point in history when technology is poised to redefine what it means to be human, The Fourth Age offers fascinating insight into AI, robotics, and their extraordinary implications for our species. "If you only read just one book about the AI revolution, make it this one" (John Mackey, cofounder and CEO, Whole Foods Market). In The Fourth Age, Byron Reese makes the case that technology has reshaped humanity just three times in history: 100,000 years ago, we harnessed fire, which led to language; 10,000 years ago, we developed agriculture, which led to cities and warfare; 5,000 years ago, we invented the wheel and writing, which lead to the nation state. We are now on the doorstep of a fourth change brought about by two technologies: AI and robotics. "Timely, highly informative, and certainly optimistic" (Booklist), The Fourth Age provides an essential background on how we got to this point, and how—rather than what—we should think about the topics we'll soon all be facing: machine consciousness, automation, changes in employment, creative computers, radical life extension, artificial life, AI ethics, the future of warfare, superintelligence, and the implications of extreme prosperity. By asking questions like "Are you a machine?" and "Could a computer feel anything?", Reese leads you through a discussion along the cutting edge in robotics and AI, and provides a framework by which we can all understand, discuss, and act on the issues of the Fourth Age and how they'll transform humanity.

The Deep Learning Revolution-Terrence J. Sejnowski 2018-10-23 How deep learning—from Google Translate to driverless cars to personal cognitive assistants—is changing our lives and transforming every sector of the economy. The deep learning revolution has brought us driverless cars, the greatly improved Google Translate, fluent conversations with Siri and Alexa, and enormous profits from automated trading on the New York Stock Exchange. Deep learning networks can play poker better than professional poker players and defeat a world champion at Go. In this book, Terry Sejnowski explains how deep learning went from being an arcane academic field to a disruptive technology in the information economy. Sejnowski played an important role in the founding of deep learning, as one of a small group of researchers in the 1980s who challenged the prevailing logic-and-symbol based version of AI. The new version of AI Sejnowski and others developed, which became deep learning, is fueled instead by data. Deep networks learn from data in the same way that babies experience the world, starting with fresh eyes and gradually acquiring the skills needed to navigate novel environments. Learning algorithms extract information from raw data; information can be used to create knowledge; knowledge underlies understanding; understanding leads to wisdom. Someday a driverless car will know the road better than you do and drive with more skill; a deep learning network will diagnose your illness; a personal cognitive assistant will augment your puny human brain. It took nature many millions of years to evolve human intelligence; AI is on a trajectory measured in decades. Sejnowski prepares us for a deep learning future.

Confronting Dystopia-Eva Paus 2018-06-15 "Assesses economic and political impacts of the worldwide revolution in artificial intelligence, machine learning, and robotics and proposes policies to benefit jobs, working conditions, and incomes in the Global North and the Global South"--

The Fourth Education Revolution-Anthony Seldon 2018 There is no more important issue facing education, or humanity at large, than the fast approaching revolution in Artificial Intelligence or AI. This book is a call to educators everywhere to open their eyes to what is coming. If we do so, then the future will be shaped by us in the interests of humanity as a whole - but if we don't, it will be imposed by others. Britain and the US have an excellent education system in their schools and universities - excellent, but tailored to the twentieth century. The factory mass teaching methods of the third revolution era have failed to conquer enduring problems of inequity and unfairness. Students have to make progress at a set rate which bores those who absorb material more slowly and bores others. And for all the new technologies, teachers remain weighed down by routine administration and only a narrow range of our aptitudes are encouraged. Will the fourth AI revolution be able to remedy these problems? We have allowed ourselves to believe that teaching can uniquely be done only by the teacher, but might it in fact be better carried out by AI machines? Or at least in concert with teachers? The evolution of AI, still in its infancy, raises a range of issues of enormous importance as we grapple with how we as humans will interact with it. AI will be an altogether new way of spreading quality education across the world, especially to those hundreds of millions who do not have it. And coming it is - the final part of the book stresses that we have to embrace AI and ensure that we shape it to the best advantage of humanity. If we get it wrong, there may be no second opportunity. The conclusion... Nothing matters more than education if we are to see AI liberate not infantilise humanity.

Artificial You-Susan Schneider 2021-04-13 A guide to AI's thorniest implications that asks: How shall we navigate our brave new world? We are at a monumental turning point in human history. AI is taking intelligence in new directions. The strongest human competitors in chess, go, and Jeopardy! have been beaten by AIs, and AI is getting more sophisticated by the day. Further, AI research is going inside the human brain itself, attempting to augment human minds. It may even create greater-than-human-level intelligence, leading to a new generation of artificial minds—Minds 2.0. Susan Schneider, a philosopher, argues that these undertakings must not be attempted without a richer understanding of the nature of the mind. An insufficient grasp of the underlying philosophical issues could undermine the use of AI and brain enhancement technology, bringing about the demise or suffering of conscious beings. Examining the philosophical questions lying beneath the algorithms, Schneider takes on AI's thorniest implications.

The Future Computed-Microsoft Corporation 2018-01-17 "AI will enable breakthrough advances in areas like healthcare, agriculture, education and transportation. It's already happening in impressive ways. But as we've witnessed over the past 20 years, new technology also inevitably raises complex questions and broad societal concerns." - Brad Smith and Harry Shum on The Future Computed. "As we look to a future powered by a partnership between computers and humans, it's important

that we address these challenges head on. How do we ensure that AI is designed and used responsibly? How do we establish ethical principles to protect people? How should we govern its use? And how will AI impact employment and jobs?" - Brad Smith and Harry Shum on The Future Computed. As Artificial Intelligence shows up in every aspect of our lives, Microsoft's top minds provide a guide discussing how we should prepare for the future. Whether you're a government leader crafting new laws, an entrepreneur looking to incorporate AI into your business, or a parent contemplating the future of education, this book explains the trends driving the AI revolution, identifies the complex ethics and workforce issues we all need to think about and suggests a path forward.Read more:The Future Computed: Artificial Intelligence and its role in society provides Microsoft's perspective on where AI technology is going and the new societal issues it is raising - ensuring AI is designed and used responsibly, establishing ethical principles to protect people, and how AI will impact employment and jobs. The principles of fairness, reliability and safety, privacy and security, inclusiveness, transparency and accountability are critical to addressing the societal impacts of AI and building trust as AI becomes more and more a part of the products and services that people use at work and at home every day. A central theme in The Future Computed is that for AI to deliver on its potential drive widespread economic and social progress, the technology needs to be human-centered - combining the capabilities of computers with human capabilities to enable people to achieve more. But a human-centered approach can only be realized if researchers, policymakers, and leaders from government, business and civil society come together to develop a shared ethical framework for AI. This in turn will help foster responsible development of AI systems that will engender trust. Because in an increasingly AI-driven world the question is not what computers can do, it is what computers should do. The Future Computed also draws a few conclusions as we chart our path forward. First, the companies and countries that will fare best in the AI era will be those that embrace these changes rapidly and effectively. Second, while AI will help solve big societal problems, we must look to this future with a critical eye as there will be challenges as well as opportunities. Third, we need to act with a sense of shared responsibility because AI won't be created by the tech sector alone. Finally, skilling-up for an AI-powered world involves more than science, technology, engineering and math. As computers behave more like humans, the social sciences and humanities will become grow in importance.

What To Do When Machines Do Everything-Malcolm Frank 2017-02-13 "Refreshingly thought-provoking…" – The Financial Times The essential playbook for the future of your business What To Do When Machines Do Everything is a guidebook to succeeding in the next generation of the digital economy. When systems running on Artificial Intelligence can drive our cars, diagnose medical patients, and manage our finances more effectively than humans it raises profound questions on the future of work and how companies compete. Illustrated with real-world cases, data, and insight, the authors provide clear strategic guidance and actionable steps to help you and your organization move ahead in a world where exponentially developing new technologies are changing how value is created. Written by a team of business and technology expert practitioners—who also authored Code Halos: How the Digital Lives of People, Things, and Organizations are Changing the Rules of Business—this book provides a clear path to the future of your work. The first part of the book examines the once in a generation upheaval most every organization will soon face as systems of intelligence go mainstream. The authors argue that contrary to the doom and gloom that surrounds much of IT and business at the moment, we are in fact on the cusp of the biggest wave of opportunity creation since the Industrial Revolution. Next, the authors detail a clear-cut business model to help leaders take part in this coming boom; the AHEAD model outlines five strategic initiatives—Automate, Halos, Enhance, Abundance, and Discovery—that are central to competing in the next phase of global business by driving new levels of efficiency, customer intimacy and innovation. Business leaders today have two options: be swallowed up by the ongoing technological evolution, or ride the crest of the wave to new profits and better business. This book shows you how to avoid your own extinction event, and will help you; Understand the untold full extent of technology's impact on the way we work and live. Find out where we're headed, and how soon the future will arrive Leverage the new emerging paradigm into a sustainable business advantage Adopt a strategic model for winning in the new economy The digital world is already transforming how we work, live, and shop, how we are governed and entertained, and how we manage our money, health, security, and relationships. Don't let your business—or your career—get left behind. What To Do When Machines Do Everything is your strategic roadmap to a future full of possibility and success. Or peril.

Breaking Bots-Jason Mars 2021-03-09 THE FUTRE IS OURS When humans first evolved, we were basically indistinguishable from animals. Then we harnessed the power of fire, and it catapulted us beyond a state of animalism. Since then, human innovation has propelled us from one technological revolution to the next. We are now at the next world-altering wave of technological evolution: artificial intelligence. But the current AI offerings cannot fulfill our fundamental desire to communicate with our technology through speech. We didn't evolve to type or use a mouse; we evolved to have conversations, including with our technology. We want the USS Enterprise shipboard computer, J.A.R.V.I.S. from Iron Man, the interface from Her. But we are not there yet. Conversational AI and AI in general are collectively our next fire, light bulb, or internet. And we must thank Apple, Google, and Amazon for whetting our appetite with Siri, Google Home, and Alexa. But now we're ready for what's next. That's where the groundbreaking work of computer scientist Jason Mars and Clinc, the company he founded, comes in. Breaking Bots paints a thrilling portrait of the past, present, and future of the AI revolution through Jason's unlikely journey to AI stardom, the extraordinary rise of Clinc from a scrappy start-up to a juggernaut toppler, and the paradigm-shifting technical and cultural DNA that makes Jason's work and Clinc's technology the future of AI. The AI revolution is at hand--and you are part of the journey!

Artificial Intelligence-Steven Astorino 2019-10 From humble evolutions in research papers and labs, artificial intelligence (AI)--which encompasses Machine Learning (ML) and Deep Learning (DL)--has matured in its many forms, infused in applications that can learn on their own and become progressively smarter with each interaction and transaction. Coupled with immense stores of data, maturity in CPU and GPU hardware, the invention of new, open source deep learning algorithms, and cloud technologies, operational AI has become available to the masses, setting the wheels in motion for a worldwide AI revolution that has never been seen before. This book attempts to help the reader on their AI journey by covering the concepts of AI, Machine Learning, and Deep Learning in its many forms; key ML and DL algorithms data scientists should learn; ethical challenges for the use of AI; how AI is being used across industries; possible future outlook for AI, and an AI Ladder to help accelerate the AI journey.

The Future Computed: AI and Manufacturing-Greg Shaw 2019-07-05 The sector that led the first and second industrial revolutions is again at the forefront of adopting new technologies to raise productivity, reinvent business processes and create safer work environments. The Future Computed: AI and Manufacturing shares insights from leading companies, policy makers, and labor representatives on how AI is reshaping the marketplace, the workplace and the workforce. The Future Computed: AI and Manufacturing shares insights from leading companies, policy makers, and labor representatives on how AI is reshaping the marketplace, the workplace and the workforce. The second in Microsoft's Future Computed series, this new book sets out options for governments and industry to enable a competitive manufacturing sector, deliver AI in an ethical way and build a sustainable talent supply chain. The book looks at the digital and cultural transformation that AI is ushering in for manufacturers while offering some policy considerations to foster responsible innovation, improve worker safety, enhance job creation and drive national competitiveness.

Will Computers Revolt?-Charles J. Simon 2018-10-30 Explore the world of future intelligent technology and how we can prepare ourselves. Includes real-world examples to interest the layman along with enough technical detail to convince the computer scientist. In layman's language by Charles J. Simon, a uniquely qualified, noted computer software/hardware expert and neural network software pioneer.

The End of Jobs-Jeff Wald 2020-06-02 The world has witnessed three step functions in technological change: mechanization, electrification, and computerization. These industrial revolutions led to massive increases in productivity and thus the need for fewer workers. With each of these technological breakthroughs, the power balance between companies and workers shifted heavily to companies. The abuses of that power by companies instigated employee unrest and sometimes even armed uprisings. Counterbalancing forces rose to constrain companies' power, eventually prompting unions, regulation, and the social safety net to bring stability to the relationship. As we enter the fourth great leap forward in technology with robots and AI, we face the first services revolution. The power balance will again shift massively to companies as new technologies drive productivity increases in the service industry, much as the last three industrial revolutions transformed manufacturing. What lessons can we learn from the past three industrial revolutions and the current state of the labor market? How will we renegotiate the social contract to ensure fairness for workers, set clear rules for companies, and provide stability for society? What is the future of work? The book also includes The Future of Work Prize competition, where the following twenty thought leaders in the world of work wrote essays on their vision of the world in 2040. The contributor that is most correct in 2040 will be awarded the $10 million Future of Work Prize. Contributors include: Andrew Stern - President Emeritus, Service Employees International Union Barry Asin - President, Staffing Industry Analysts Bruce Morton - Head of Strategy, Allegis Global Solutions Carl Camden - Former CEO, Kelly Services Cindy Olson - Former CHRO, Enron Daniel Pianko - Managing Partner, Achieve Partners David Fano - CEO, Teal Deborah Borg - CHRO, Bunge Gene Holtzman - Founder, Talent Tech Labs Gene Zaino - Founder, MBO Partners Holly Paul - CHRO, FTI Consulting Ian Ziskin - Former CHRO, Northrop Grumman Jane Oates - President, WorkingNation Johnny C. Taylor, Jr. - President, Society for Human Resource Management Kim Seymour - CHRO, WW (formerly Weight Watchers) Marcus Sawyerr - CEO, Yoss Michael Bertolino - Senior Partner, E&Y Michael Johnson - Former CHRO, UPS Michelle Greenstreet - Former CHRO, Various William Weissman - Partner, Littler Mendelson

AI Revolution in HRM-Ashwani Kumar Upadhyay 2020-11-23 With AI being touted as the new kid on the block, the HR function in organizations is witnessing a sea change with the advent of new data-driven analytical processes. Till now HR has been about employees already working within an organization and potential entrants to it. What happens when machines and bots enter the scene? AI Revolution in HRM is all about debunking the conventional wisdom and redrawing the contours of passé management to include machines into its definition. This book discusses the benefit, challenges and applications of AI in the HR function. It also highlights issues in implementation and considers the impact of AI-based HR systems in the organization. Further, the book provides tips and insights on how to deal with the challenges and implementation issues ranging from data privacy to system bias and up-skilling of current employees. It is builds on a wide variety of cases ranging from large global organizations to startups. This book will ensure that HR professionals and general readers fully understand the concepts of AI and its relevance to the HR profession. Equipped with the knowledge of AI-based tools and systems, it will help the HR department make their organizations more vibrant and stable by embracing the developments in AI technology. AI Revolution in HRM will be an insightful and helpful read for HR professionals and AI enthusiast.

An Artificial Revolution-Ivana Bartoletti 2020-05-20 AI has unparalleled transformative potential to reshape society, our economies and our working lives, but without legal scrutiny, international oversight and public debate, we are sleepwalking into a future written by algorithms which encode racist, sexist and classist biases into our daily lives &– an issue that requires systemic political and cultural change to productively address. Leading privacy expert Ivana Bartoletti exposes the reality of the AI revolution, from the low-paid workers who toil to train algorithms to recognise cancerous polyps, to the rise of techno-racism and techno-chauvinism and the symbiotic relationship between AI and right wing populism. An Artificial Revolution is an essential primer to understand the intersection of technology and geopolitical forces shaping the future of civilisation.&• Endorsements confirmed from leading UK political figures including David Lammy MP, Yvette Cooper MP, Paul Mason, Frances O'Grady and Ayesha Hazarika&• A primer for anyone who is interested to learn more about the relation between AI and ethics, data and privacy, corporate power, politics and tech&• Ivana is a sought-after commentator who has appeared on flagship news programmes on the BBC, Sky and other major broadcasters as a privacy and AI ethics expert, who also speaks at conferences around the world on AI and privacy