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Brain vs. Machine-John Brockman 2015-10-06 As the world becomes ever more dominated by technology, John Brockman's latest addition to the acclaimed and bestselling "Edge Question Series" asks more than 175 leading scientists, philosophers, and artists: What do you think about machines that think? The development of artificial intelligence has been a source of fascination and anxiety ever since Alan Turing formalized the concept in 1950. Today, Stephen Hawking believes that AI "could spell the end of the human race." At the very least, its development raises complicated moral issues with powerful real-world implications—for us and for our machines. In this volume, recording artist Brian Eno proposes that we're already part of an AI: global civilization, or what TED curator Chris Anderson elsewhere calls the hive mind. And author Pamela McCorduck considers what drives us to pursue AI in the first place. On the existential threat posed by superintelligent machines, Steven Pinker questions the likelihood of a robot uprising. Douglas Coupland traces discomfort with human-programmed AI to deeper fears about what constitutes "humanness." Martin Rees predicts the end of organic thinking, while Daniel C. Dennett explains why he believes the Singularity might be an urban legend. Provocative, enriching, and accessible, Brain vs. Machine may just be a practical guide to the not-so-distant future.

What to Think About Machines That Think-Mr. John Brockman 2015-10-06 Weighing in from the cutting-edge frontiers of science, today's most forward-thinking minds explore the rise of "machines that think." Stephen Hawking recently made headlines by noting, "The development of full artificial intelligence could spell the end of the human race." Others, conversely, have trumpeted a new age of "superintelligence" in which smart devices will exponentially extend human capacities. No longer just a matter of science-fiction fantasy (2001, Blade Runner, The Terminator, Her, etc.), it is time to seriously consider the reality of intelligent technology, many forms of which are already being integrated into our daily lives. In that spirit, John Brockman, publisher of Edge. org ("the world's smartest website" – The Guardian), asked the world's most influential scientists, philosophers, and artists one of today's most consequential questions: What do you think about machines that think?

How Smart Machines Think-Sean Gerrish 2019-09-15 The future is here: Self-driving cars are on the streets, an algorithm gives you movie and TV recommendations, IBM's Watson triumphed on Jeopardy over puny human brains, computer programs can be trained to play Atari games. But how do all these things work? In this book, Sean Gerrish offers an engaging and accessible overview of the breakthroughs in artificial intelligence and machine learning that have made today's machines so smart. Gerrish outlines some of the key ideas that enable intelligent machines to perceive and interact with the world. He describes the software architecture that allows self-driving cars to stay on the road and to navigate crowded urban environments; the million-dollar Netflix competition for a better recommendation engine (which had an unexpected ending); and how programmers trained computers to perform certain behaviors by offering them treats, as if they were training a dog. He explains how artificial neural networks enable computers to perceive the world-and to play Atari video games better than humans. He explains Watson's famous victory on Jeopardy, and he looks at how computers play games, describing AlphaGo and Deep Blue, which beat reigning world champions at the strategy games of Go and chess. Computers have not yet mastered everything, however; Gerrish outlines the difficulties in creating intelligent agents that can successfully play video games like StarCraft that have evaded solution-at least for now.

Machines That Think-Toby Walsh 2018-02-20 A scientist who has spent a career developing Artificial Intelligence takes a realistic look at the technological challenges and assesses the likely effect of AI on the future. How will Artificial Intelligence (AI) impact our lives? Toby Walsh, one of the leading AI researchers in the world, takes a critical look at the many ways in which "thinking machines" will change our world. Based on a deep understanding of the technology, Walsh describes where Artificial Intelligence is today, and where it will take us. • Will automation take away most of our jobs? • Is a "technological singularity" near? • What is the chance that robots will take over? • How do we best prepare for this future? The author concludes that, if we plan well, AI could be our greatest legacy, the last invention human beings will ever need to make.

Thinking Machines-Luke Dormehl 2017-03-07 A fascinating look at Artificial Intelligence, from its humble Cold War beginnings to the dazzling future that is just around the corner. When most of us think about Artificial Intelligence, our minds go straight to cyborgs, robots, and sci-fi thrillers where machines take over the world. But the truth is that Artificial Intelligence is already among us. It exists in our smartphones, fitness trackers, and refrigerators that tell us when the milk will expire. In some ways, the future people dreamed of at the World's Fair in the 1960s is already here. We're teaching our machines how to think like humans, and they're learning at an incredible rate. In Thinking Machines, technology journalist Luke Dormehl takes you through the history of AI and how it makes up the foundations of the machines that think for us today. Furthermore, Dormehl speculates on the incredible--and possibly terrifying--future that's much closer than many would imagine. This remarkable book will invite you to marvel at what now seems commonplace and to dream about a future in which the scope of humanity may need to broaden itself to include intelligent machines.

Machines Who Think-Pamela McCorduck 2019-10-02 This book is a history of artificial intelligence, that audacious effort to duplicate in an artifact what we consider to be our most important property--our intelligence. It is an invitation for anybody with an interest in the future of the human race to participate in the inquiry.

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.

Machines that Think-New Scientist 2017-10-19 Sometime in the future the intelligence of machines will exceed that of human brain power. So are we on the edge of an AI-pocalypse, with superintelligent devices superseding humanity, as predicted by Stephen Hawking? Or will this herald a kind of Utopia, with machines doing a far better job at complex tasks than us? You might not realise it, but you interact with AIs every day. They route your phone calls, approve your credit card transactions and help your doctor interpret results. Driverless cars will soon be on the roads with a decision-making computer in charge. But how do machines actually think and learn? In Machines That Think, AI experts and New Scientist explore how artificial intelligence helps us understand human intelligence, machines that compose music and write stories - and ask if AI is really a threat. ABOUT THE SERIES New Scientist Instant Expert books are definitive and accessible entry points to the most important subjects in science; subjects that challenge, attract debate, invite controversy and engage the most enquiring minds. Designed for curious readers who want to know how things work and why, the Instant Expert series explores the topics that really matter and their impact on individuals, society, and the planet, translating the scientific complexities around us into language that's open to everyone, and putting new ideas and discoveries into perspective and context.

Thinking Machines-Shigeyuki Takano 2021-04-21 Thinking Machines: Machine Learning and Its Hardware Implementation covers the theory and application of machine learning, neuromorphic computing and neural networks. This is the first book that focuses on machine learning accelerators and hardware development for machine learning. It presents not only a summary of the latest trends and examples of machine learning hardware and basic knowledge of machine learning in general, but also the main issues involved in its implementation. Readers will learn what is required for the design of machine learning hardware for neuromorphic computing and/or neural networks. This is a recommended book for those who have basic knowledge of machine learning or those who want to learn more about the current trends of machine learning. Presents a clear understanding of various available machine learning hardware accelerator solutions that can be applied to selected machine learning algorithms Offers key insights into the development of hardware, from algorithms, software, logic circuits, to hardware accelerators Introduces the baseline characteristics of deep neural network models that should be treated by hardware as well Presents readers with a thorough review of past research and products, explaining how to design through ASIC and FPGA approaches for target machine learning models Surveys current trends and models in neuromorphic computing and neural network hardware architectures Outlines the strategy for advanced hardware development through the example of deep learning accelerators

Machines That Think!-Don Brown 2020-04-28 Award-winning author Don Brown explores computers and technology in book two of the Big Ideas series Machines That Think! explores machines from ancient history to today that perform a multitude of tasks, from making mind-numbing calculations to working on assembly lines. Included are fascinating looks at the world's earliest calculators, the birth of computer programming, and the arrival of smartphones. Contributors discussed include Muhammad ibn Musa al-Khwarizmi, Ada Lovelace, and Bill Gates. From the abacus to artificial intelligence, machines through the ages have pushed the boundaries of human capability and creativity. Back matter includes a timeline, endnotes, a bibliography, an author's note, and an index.

The Emotion Machine-Marvin Minsky 2007-11-13 In this mind-expanding book, scientific pioneer Marvin Minsky continues his groundbreaking research, offering a fascinating new model for how our minds work. He argues persuasively that emotions, intuitions, and feelings are not distinct things, but different ways of thinking. By examining these different forms of mind activity, Minsky says, we can explain why our thought sometimes takes the form of carefully reasoned analysis and at other times turns to emotion. He shows how our minds progress from simple, instinctive kinds of thought to more complex forms, such as consciousness or self-awareness. And he argues that because we tend to see our thinking as fragmented, we fail to appreciate what powerful thinkers we really are. Indeed, says Minsky,

if thinking can be understood as the step-by-step process that it is, then we can build machines -- artificial intelligences -- that not only can assist with our thinking by thinking as we do but have the potential to be as conscious as we are. Eloquently written, The Emotion Machine is an intriguing look into a future where more powerful artificial intelligences await.

How Humans Judge Machines-Cesar A. Hidalgo 2021 "80 experimental scenarios help us understand how humans judge AIs as opposed to other humans in the same situation"--

The Quest for Artificial Intelligence-Nils J. Nilsson 2009-10-30 Artificial intelligence (AI) is a field within computer science that is attempting to build enhanced intelligence into computer systems. This book traces the history of the subject, from the early dreams of eighteenth-century (and earlier) pioneers to the more successful work of today's AI engineers. AI is becoming more and more a part of everyone's life. The technology is already embedded in face-recognizing cameras, speech-recognition software, Internet search engines, and health-care robots, among other applications. The book's many diagrams and easy-to-understand descriptions of AI programs will help the casual reader gain an understanding of how these and other AI systems actually work. Its thorough (but unobtrusive) end-of-chapter notes containing citations to important source materials will be of great use to AI scholars and researchers. This book promises to be the definitive history of a field that has captivated the imaginations of scientists, philosophers, and writers for centuries.

Deep Thinking-Garry Kasparov 2017-06-01 In May 1997, the world watched as Garry Kasparov, the greatest chess player in the world, was defeated for the first time by the IBM supercomputer Deep Blue. It was a watershed moment in the history of technology: machine intelligence had arrived at the point where it could best human intellect. It wasn't a coincidence that Kasparov became the symbol of man's fight against the machines. Chess has long been the fulcrum in development of machine intelligence; the hoax automaton 'The Turk' in the 18th century and Alan Turing's first chess program in 1952 were two early examples of the quest for machines to think like humans -- a talent we measured by their ability to beat their creators at chess. As the pre-eminent chessmaster of the 80s and 90s, it was Kasparov's blessing and his curse to play against each generation's strongest computer champions, contributing to their development and advancing the field. Like all passionate competitors, Kasparov has taken his defeat and learned from it. He has devoted much energy to devising ways in which humans can partner with machines in order to produce results better than either can achieve alone. During the twenty years since playing Deep Blue, he's played both with and against machines, learning a great deal about our vital relationship with our most remarkable creations. Ultimately, he's become convinced that by embracing the competition between human and machine intelligence, we can spend less time worrying about being replaced and more thinking of new challenges to conquer. In this breakthrough book, Kasparov tells his side of the story of Deep Blue for the first time -- what it was like to strategize against an implacable, untiring opponent -- the mistakes he made and the reasons the odds were against him. But more than that, he tells his story of AI more generally, and how he's evolved to embrace it, taking part in an urgent debate with philosophers worried about human values, programmers creating self-learning neural networks, and engineers of cutting edge robotics.

Human Work In the Age of Smart Machines-Jamie Merisotis 2020-10-06 We are living through a time of upheaval, with increasing threats to global health, democratic institutions, and the world's economies. But behind the alarming headlines is another issue that must be quickly addressed: the role of workers is being transformed—and often rendered obsolete—by automation and artificial intelligence. As Jamie Merisotis, the president and CEO of Lumina Foundation, argues in Human Work In the Age of Smart Machines, we can—and must—rise to this challenge by preparing to work alongside smart machines doing that which only humans can: thinking critically, reasoning ethically, interacting interpersonally, and serving others with empathy. In Human Work, Merisotis, author of the award-winning 2015 book America Needs Talent, offers a roadmap for the large-scale, radical changes we must make in order to find abundant and meaningful work in the 21st century. His vision centers on developing our unique capabilities as humans through a lifetime of learning opportunities that are easy to navigate, deliver fair results, and offer a broad range of credentials—from college degrees to occupational certifications. By shifting long-held ideas about how the workforce should function and expanding our concept of work, he argues that we can harness the population's potential, encourage a deeper sense of community, and erase a centuries-long system of inequality. As the headlines blink red, now is the time to redesign

Artificial Intelligence with Python-Prateek Joshi 2017-01-27 Build real-world Artificial Intelligence applications with Python to intelligently interact with the world around you About This Book Step into the amazing world of intelligent apps using this comprehensive guide Enter the world of Artificial Intelligence, explore it, and create your own applications Work through simple yet insightful examples that will get you up and running with Artificial Intelligence in no time Who This Book Is For This book is for Python developers who want to build real-world Artificial Intelligence applications. This book is friendly to Python beginners, but being familiar with Python would be useful to play around with the code. It will also be useful for experienced Python programmers who are looking to use Artificial Intelligence techniques in their existing technology stacks. What You Will Learn Realize different classification and regression techniques Understand the concept of clustering and how to use it to automatically segment data See how to build an intelligent recommender system Understand logic programming and how to use it Build automatic speech recognition systems Understand the basics of heuristic search and genetic programming Develop games using Artificial Intelligence Learn how reinforcement learning works Discover how to build intelligent applications centered on images, text, and time series data See how to use deep learning algorithms and build applications based on it In Detail Artificial Intelligence is becoming increasingly relevant in the modern world where everything is driven by technology and data. It is used extensively across many fields such as search engines, image recognition, robotics, finance, and so on. We will explore various real-world scenarios in this book and you'll learn about various algorithms that can be used to build Artificial Intelligence applications. During the course of this book, you will find out how to make informed decisions about what algorithms to use in a given context. Starting from the basics of Artificial Intelligence, you will learn how to develop various building blocks using different data mining techniques. You will see how to implement different algorithms to get the best possible results, and will understand how to apply them to real-world scenarios. If you want to add an intelligence layer to any application that's based on images, text, stock market, or some other form of data, this exciting book on Artificial Intelligence will definitely be your guide! Style and approach This highly practical book will show you how to implement Artificial Intelligence. The book provides multiple examples enabling you to create smart applications to meet the needs of your organization. In every chapter, we explain an algorithm, implement it, and then build a smart application.

The Age of Spiritual Machines-Ray Kurzweil 1999 We are all fascinated by the unknown members of our respective families. Where did our family come from originally? Were earlier generations related to anyone famous? Did any of our antecedents leave a serious mark on history?

The Promise of Artificial Intelligence-Brian Cantwell Smith 2019-10-08 An argument that—despite dramatic advances in the field—artificial intelligence is nowhere near developing systems that are genuinely intelligent. In this provocative book, Brian Cantwell Smith argues that artificial intelligence is nowhere near developing systems that are genuinely intelligent. Second wave AI, machine learning, even visions of third-wave AI: none will lead to human-level intelligence and judgment, which have been honed over millennia. Recent advances in AI may be of epochal significance, but human intelligence is of a different order than even the most powerful calculative ability enabled by new computational capacities. Smith calls this AI ability "reckoning," and argues that it does not lead to full human judgment—dispassionate, deliberative thought grounded in ethical commitment and responsible action. Taking judgment as the ultimate goal of intelligence, Smith examines the history of AI from its first-wave origins ("good old-fashioned AI," or GOFAI) to such celebrated second-wave approaches as machine learning, paying particular attention to recent advances that have led to excitement, anxiety, and debate. He considers each AI technology's underlying assumptions, the conceptions of intelligence targeted at each stage, and the successes achieved so far. Smith unpacks the notion of intelligence itself—what sort humans have, and what sort AI aims at. Smith worries that, impressed by AI's reckoning prowess, we will shift our expectations of human intelligence. What we should do, he argues, is learn to use AI for the reckoning tasks at which it excels while we strengthen our commitment to judgment, ethics, and the world.

Thinking Machines-Luke Dormehl 2017 A fascinating look at Artificial Intelligence, from its humble Cold War beginnings to the dazzling future that is just around the corner. When most of us think about Artificial Intelligence, our minds go straight to cyborgs, robots, and sci-fi thrillers where machines take over the world. But the truth is that Artificial Intelligence is already among us. It exists in our smartphones, fitness trackers, and refrigerators that tell us when the milk will expire. In some ways, the future people dreamed of at the World's Fair in the 1960s is already here. We're teaching our machines how to think like humans, and they're learning at an incredible rate. In Thinking Machines, technology journalist Luke Dormehl takes you through the history of AI and how it makes up the foundations of the machines that think for us today. Furthermore, Dormehl speculates on the incredible--and possibly terrifying--future that's much closer than many would imagine. This remarkable book will invite you to marvel at what now seems commonplace and to dream about a future in which the scope of humanity may need to broaden itself to include intelligent machines.

Rise of the Thinking Machines-Jennifer Fretland VanVoorst 2008-07-01 "From R2-D2 and C-3PO to the Terminator, robots have added an exciting edge to movies for decades. But what about robots that are used in real life? Robots are programmed to perform tasks that are either too difficult or too dangerous for humans to do. They can also repeat an action hundreds of times exactly the same way each time. These robots have been extremely useful in manufacturing plants, automotive industries, and even our own homes. The future of robotics, however, lies with autonomous robots robots that can act independently. This rise of artificial intelligence leads to an unlimited number of possibilities in robotics"--Amazon.com.

Quantum Theoretic Machines-A. Stern 2000-12-08 Making Sense of Inner Sense 'Terra cognita' is terra incognita. It is difficult to find someone not taken abackand fascinated by the incomprehensible but indisputable fact: there are material systems which are aware of themselves. Consciousness is self-cognizing code. During homo sapiens's relentness and often frustrated search for self-understanding various theories of consciousness have been and continue to be proposed. However, it remains unclear whether and at what level the problems of consciousness and intelligent thought can be resolved. Science's greatest challenge is to answer the fundamental question: what precisely does a cognitive state amount to in physical terms? Albert Einstein insisted that the fundamental ideas of science are essentially simple and can be expressed in a language comprehensible to everyone. When one thinks about the complexities which present themselves in modern physics and even more so in the physics of life, one may wonder whether Einstein really meant what he said. Are we to consider the fundamental problem of the mind, whose understanding seems to lie outside the limits of the mind, to be essentially simple too? Knowledge is neither automatic nor universally deductive. Great new ideas are typically counterintuitive and outrageous, and connecting them by simple logical steps to existing knowledge is often a hard undertaking. The notion of a tensor was needed to provide the general theory of relativity; the notion of entropy had to be developed before we could get full insight into the laws of thermodynamics; the notice of information bit is crucial for communication theory, just as the concept of a Turing machine is instrumental in the deep understanding of a computer. To understand something, consciousness must reach an adequate intellectual level, even more so in order to understand itself. Reality is full of unending mysteries, the true explanation of which requires very technical knowledge, often involving notions not given directly to intuition. Even though the entire content and the results of this study are contained in the eight pages of the mathematical abstract, it would be unrealistic and impractical to suggest that anyone can gain full insight into the theory that presented here after just reading abstract. In our quest for knowledge we are exploring the remotest areas of the macrocosm and probing the invisible particles of the microcosm, from tiny neutrinos and strange quarks to black holes and the Big Bang. But the greatest mystery is very close to home: the greatest mystery is human consciousness. The question before us is whether the logical brain has evolved to a conceptual level where it is able to understand itself.

Thinking Machines-Isaac Asimov 1981 Stories suggest some unexpected results of using computers and robots in insurance, transportation, and sales

Prediction Machines-Ajay Agrawal 2018-04-17 "What does AI mean for your business? Read this book to find out." -- Hal Varian, Chief Economist, Google Artificial intelligence does the seemingly impossible, magically bringing machines to life--driving cars, trading stocks, and teaching children. But facing the sea change that AI will bring can be paralyzing. How should companies set strategies, governments design policies, and people plan their lives for a world so different from what we know? In the face of such uncertainty, many analysts either cower in fear or predict an impossibly sunny future. But in Prediction Machines, three eminent

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education, training, and the workplace as a whole. Yes, many jobs will be lost to technology, but if we promote people's deeper potential, engaging human work will always be available.

economists recast the rise of AI as a drop in the cost of prediction. With this single, masterful stroke, they lift the curtain on the AI-is-magic hype and show how basic tools from economics provide clarity about the AI revolution and a basis for action by CEOs, managers, policy makers, investors, and entrepreneurs. When AI is framed as cheap prediction, its extraordinary potential becomes clear: Prediction is at the heart of making decisions under uncertainty. Our businesses and personal lives are riddled with such decisions. Prediction tools increase productivity--operating machines, handling documents, communicating with customers. Uncertainty constrains strategy. Better prediction creates opportunities for new business structures and strategies to compete. Penetrating, fun, and always insightful and practical, Prediction Machines follows its inescapable logic to explain how to navigate the changes on the horizon. The impact of AI will be profound, but the economic framework for understanding it is surprisingly simple.

Who's Afraid of AI?-Thomas Ramge 2019-04-16 A penetrating guide to artificial intelligence: what it is, what it does, and how it will change our lives At a breathtaking pace, artificial intelligence is getting better and faster at making complex decisions. AI can already identify malignant tumors on CT scans, give legal advice, out-bluff the best poker players in the world, and, with ever-increasing skill, drive our cars. In Who's Afraid of AI?, award-winning author Thomas Ramge expertly explains how machines are learning to learn, and he questions what today's explosion of AI capability could mean for tomorrow: Is it ethical to allow robots—endlessly patient—to replace human caregivers in providing comfort and companionship to the elderly? Since AI feeds on big data, can we prevent its misuse by corporations or the government? Will AI ever be capable of runaway self-improvement? And if "the singularity" does arrive, with AI's intelligence exponentially outpacing our own, what will become of us when, in many ways, we're obsolete?

The Big Nine-Amy Webb 2019-03-05 A call-to-arms about the broken nature of artificial intelligence, and the powerful corporations that are turning the human-machine relationship on its head. We like to think that we are in control of the future of "artificial" intelligence. The reality, though, is that we--the everyday people whose data powers AI--aren't actually in control of anything. When, for example, we speak with Alexa, we contribute that data to a system we can't see and have no input into--one largely free from regulation or oversight. The big nine corporations--Amazon, Google, Facebook, Tencent, Baidu, Alibaba, Microsoft, IBM and Apple--are the new gods of AI and are short-changing our futures to reap immediate financial gain. In this book, Amy Webb reveals the pervasive, invisible ways in which the foundations of AI--the people working on the system, their motivations, the technology itself--is broken. Within our lifetimes, AI will, by design, begin to behave unpredictably, thinking and acting in ways which defy human logic. The big nine corporations may be inadvertently building and enabling vast arrays of intelligent systems that don't share our motivations, desires, or hopes for the future of humanity. Much more than a passionate, human-centered call-to-arms, this book delivers a strategy for changing course, and provides a path for liberating us from algorithmic decision-makers and powerful corporations.

The Mechanical Mind-Professor of Philosophy Tim Crane 2003 Tim Crane introduces fundamental topics that cut across philosophy of mind, artificial inteligence & cognitive science: what the mind-body problem is, what a computer is & how it works, what a thought is & how computers & minds represent them. Fully updated in this second edition.

The Road to Conscious Machines-Michael Wooldridge 2021-03-04

Digital Soul-Thomas Georges 2004-10-13 An introduction to artificial intelligence explores the philosophical and scientific implications of building machines that can think and feel more deeply than humans. Reprint.

The Machine Question-David J. Gunkel 2017-09 One of the enduring concerns of moral philosophy is deciding who or what is deserving of ethical consideration. Much recent attention has been devoted to the "animal question"--Consideration of the moral status of nonhuman animals. In this book, David Gunkel takes up the "machine question": whether and to what extent intelligent and autonomous machines of our own making can be considered to have legitimate moral responsibilities and any legitimate claim to moral consideration. The machine question poses a fundamental challenge to moral thinking, questioning the traditional philosophical conceptualization of technology as a tool or instrument to be used by human agents.

Moved by Machines-Mark Coeckelbergh 2019-07-30 Given the rapid development of new technologies such as smart devices, robots, and artificial intelligence and their impact on the lives of people and on society, it is important and urgent to construct conceptual frameworks that help us to understand and evaluate them. Benefiting from tendencies towards a performative turn in the humanities and social sciences, drawing on thinking about the performing arts, and responding to gaps in contemporary artefact-oriented philosophy of technology, this book moves thinking about technology forward by using performance as a metaphor to understand and evaluate what we do with technology and what technology does with us. Focusing on the themes of knowledge/experience, agency, and power, and discussing some pertinent ethical issues such as deception, the narrative of the book moves through a number of performance practices: dance, theatre, music, stage magic, and (perhaps surprisingly) philosophy. These are used as sources for metaphors to think about technology--in particular contemporary devices and machines--and as interfaces to bring in various theories that are not usually employed in philosophy of technology. The result is a sequence of gestures and movements towards a performance-oriented conceptual framework for a thinking about technology which, liberated from the static, vision-centred, and dualistic metaphors offered by traditional philosophy, can do more justice to the phenomenology of our daily embodied, social, kinetic, temporal, and narrative performances with technology, our technoperformances. This book will appeal to scholars of philosophy of technology and performance studies who are interested in reconceptualizing the roles and impact of modern technology. ink about technology--in particular contemporary devices and machines--and as interfaces to bring in various theories that are not usually employed in philosophy of technology. The result is a sequence of gestures and movements towards a performance-oriented conceptual framework for a thinking about technology which, liberated from the static, vision-centred, and dualistic metaphors offered by traditional philosophy, can do more justice to the phenomenology of our daily embodied, social, kinetic, temporal, and narrative performances with technology, our technoperformances. This book will appeal to scholars of philosophy of technology and performance studies who are interested in reconceptualizing the roles and impact of modern technology.

Super-Intelligent Machines-Bill Hibbard 2012-12-06 Super-Intelligent Machines combines neuroscience and computer science to analyze future intelligent machines. It describes how they will mimic the learning structures of human brains to serve billions of people via the network, and the superior level of consciousness this will give them. Whereas human learning is reinforced by self-interests, this book describes the selfless and compassionate values that must drive machine learning in order to protect human society. Technology will change life much more in the twenty-first century than it has in the twentieth, and Super-Intelligent Machines explains how that can be an advantage.

Superminds-Thomas W. Malone 2018-05-15 From the founding director of the MIT Center for Collective Intelligence comes a fascinating look at the remarkable capacity for intelligence exhibited by groups of people and computers working together. If you're like most people, you probably believe that humans are the most intelligent animals on our planet. But there's another kind of entity that can be far smarter: groups of people. In this groundbreaking book, Thomas Malone, the founding director of the MIT Center for Collective Intelligence, shows how groups of people working together in superminds -- like hierarchies, markets, democracies, and communities -- have been responsible for almost all human achievements in business, government, science, and beyond. And these collectively intelligent human groups are about to get much smarter. Using dozens of striking examples and case studies, Malone shows how computers can help create more intelligent superminds simply by connecting humans to one another in a variety of rich, new ways. And although it will probably happen more gradually than many people expect, artificially intelligent computers will amplify the power of these superminds by doing increasingly complex kinds of thinking. Together, these changes will have far-reaching implications for everything from the way we buy groceries and plan business strategies to how we respond to climate change, and even for democracy itself. By understanding how these collectively intelligent groups work, we can learn how to harness their genius to achieve our human goals. Drawing on cutting-edge science and insights from a remarkable range of disciplines, Superminds articulates a bold -- and utterly fascinating -- picture of the future that will change the ways you work and live, both with other people and with computers.

The Age of Intelligent Machines-Ray Kurzweil 1992 Comparing the human brain with so-called artificial intelligence, the author probes past,

present, and future attempts to create machine intelligence

Consciousness and Moral Status-Joshua Shepherd 2018-05-23 It seems obvious that phenomenally conscious experience is something of great value, and that this value maps onto a range of important ethical issues. For example, claims about the value of life for those in Permanent Vegetative State (PVS); debates about treatment and study of disorders of consciousness; controversies about end-of-life care for those with advanced dementia; and arguments about the moral status of embryos, fetuses, and non-human animals arguably turn on the moral significance of various facts about consciousness. However, though work has been done on the moral significance of elements of consciousness, such as pain and pleasure, little explicit attention has been devoted to the ethical significance of consciousness. In this book Joshua Shepherd presents a systematic account of the value present within conscious experience. This account emphasizes not only the nature of consciousness, but also the importance of items within experience such as affect, valence, and the complex overall shape of particular valuable experiences. Shepherd also relates this account to difficult cases involving non-humans and humans with disorders of consciousness, arguing that the value of consciousness influences and partially explains the degree of moral status a being possesses, without fully determining it. The upshot is a deeper understanding of both the moral importance of phenomenal consciousness and its relations to moral status. This book will be of great interest to philosophers and students of ethics, bioethics, philosophy of psychology, philosophy of mind, and cognitive science.

Artificial Intelligence-Melanie Mitchell 2020-09-24 No recent scientific enterprise has been so alluring, terrifying, and filled with extravagant promise and frustrating setbacks as artificial intelligence. How intelligent are the best of today's AI programs? To what extent can we entrust them with decisions that affect our lives? How human-like do we expect them to become, and how soon do we need to worry about them surpassing us in most, if not all, human endeavours? From leading AI researcher and award-winning author Melanie Mitchell comes a knowledgeable and captivating account of modern-day artificial intelligence. Flavoured with personal stories and a twist of humor, Artificial Intelligence illuminates the workings of machines that mimic human learning, perception, language, creativity and common sense. Weaving together advances in AI with cognitive science and philosophy, Mitchell probes the extent to which today's 'smart' machines can actually think or understand, and whether AI requires such elusive human qualities in order to be reliable, trustworthy and beneficial. Artificial Intelligence: A Guide for Thinking Humans provides readers with an accessible, entertaining, and clear-eyed view of the AI landscape, what the field has actually accomplished, how much further it has to go, and what it means for all of our futures.

Machines that Think-Isaac Asimov 1984

Superintelligence-Nick Bostrom 2014 The human brain has some capabilities that the brains of other animals lack. It is to these distinctive capabilities that our species owes its dominant position. Other animals have stronger muscles or sharper claws, but we have cleverer brains. If machine brains one day come to surpass human brains in general intelligence, then this new superintelligence could become very powerful. As the fate of the gorillas now depends more on us humans than on the gorillas themselves, so the fate of our species then would come to depend on the actions of the machine superintelligence. But we have one advantage: we get to make the first move. Will it be possible to construct a seed AI or otherwise to engineer initial conditions so as to make an intelligence explosion survivable? How could one achieve a controlled detonation? To get closer to an answer to this question, we must make our way through a fascinating landscape of topics and considerations. Read the book and learn about oracles, genies, singletons; about boxing methods, tripwires, and mind crime; about humanity's cosmic endowment and differential technological development; indirect normativity, instrumental convergence, whole brain emulation and technology couplings; Malthusian economics and dystopian evolution; artificial intelligence, and biological cognitive enhancement, and

collective intelligence.

Human + Machine-Paul R. Daugherty 2018-03-20 AI is radically transforming business. Are you ready? Look around you. Artificial intelligence is no longer just a futuristic notion. It's here right now--in software that senses what we need, supply chains that "think" in real time, and robots that respond to changes in their environment. Twenty-first-century pioneer companies are already using AI to innovate and grow fast. The bottom line is this: Businesses that understand how to harness AI can surge ahead. Those that neglect it will fall behind. Which side are you on? In Human + Machine, Accenture leaders Paul R. Daugherty and H. James (Jim) Wilson show that the essence of the AI paradigm shift is the transformation of all business processes within an organization--whether related to breakthrough innovation, everyday customer service, or personal productivity habits. As humans and smart machines collaborate ever more closely, work processes become more fluid and adaptive, enabling companies to change them on the fly--or to completely reimagine them. AI is changing all the rules of how companies operate. Based on the authors' experience and research with 1,500 organizations, the book reveals how companies are using the new rules of AI to leap ahead on innovation and profitability, as well as what you can do to achieve similar results. It describes six entirely new types of hybrid human + machine roles that every company must develop, and it includes a "leader's guide" with the five crucial principles required to become an AI-fueled business. Human + Machine provides the missing and much-needed management playbook for success in our new age of AI. BOOK PROCEEDS FOR THE AI GENERATION The authors' goal in publishing Human + Machine is to help executives, workers, students and others navigate the changes that AI is making to business and the economy. They believe AI will bring innovations that truly improve the way the world works and lives. However, AI will cause disruption, and many people will need education, training and support to prepare for the newly created jobs. To support this need, the authors are donating the royalties received from the sale of this book to fund education and retraining programs focused on developing fusion skills for the age of artificial intelligence.

The War of the Worlds-H. G. Wells 2017-01-01 When a meteorite lands in Surrey, the locals don't know what to make of it. But as Martians emerge and begin killing bystanders, it quickly becomes clear—England is under attack. Armed soldiers converge on the scene to ward off the invaders, but meanwhile, more Martian cylinders land on Earth, bringing reinforcements. As war breaks out across England, the locals must fight for their lives, but life on Earth will never be the same. This is an unabridged version of one of the first fictional accounts of extraterrestrial invasion. H. G. Wells's military science fiction novel was first published in book form in 1898, and is considered a classic of English literature.

The Human-Powered Home-Tamara Dean 2008-11-01 What if I could harness this energy? An unusual question for anyone putting in a long stint on a treadmill perhaps, and yet human power is a very old, practical and empowering alternative to fossil fuels. Replacing motors with muscles can be considered a political act -- an act of self-sufficiency that gains you independence. The Human-Powered Home is a one-of-a-kind compendium of human-powered devices gathered from a unique collection of experts. Enthusiasts point to the advantages of human power: Portable and available on-demand Close connection to the process or product offers more control Improved health and fitness The satisfaction of being able to make do with what is available This book discusses the science and history of human power and examines the common elements of human-powered devices. It offers plans for making specific devices, grouped by area of use, and features dozens of individuals who share technical details and photos of their inventions. For those who want to apply their own ingenuity, or for those who have never heard of human-powered machines, this book is a fine reference. For those who are beginning to understand the importance of a life of reduced dependency on fossil fuels, this book could be a catalyst for change.