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Artificial Intelligence-Stuart Russell 2016-05-05 For one or two-semester, undergraduate or graduate-level courses in Artificial Intelligence. The long-anticipated revision of this best-selling text offers the most comprehensive, up-to-date introduction to the theory and practice of artificial intelligence.
Artificial Intelligence-Stuart Russell 2016-09-10 Artificial Intelligence: A Modern Approach offers the most comprehensive, up-to-date introduction to the theory and practice of artificial intelligence. Number one in its field, this textbook is ideal for one or two-semester, undergraduate or graduate-level courses in Artificial Intelligence.
Artificial Intelligence: A Modern Approach, Global Edition-Stuart Russell 2016-07-04 For one or two-semester, undergraduate or graduate-level courses in Artificial Intelligence. The long-anticipated revision of this best-selling text offers the most comprehensive, up-to-date introduction to the theory and practice of artificial intelligence.
Artificial Intelligence a Modern Approach-Geoffrey bengio 2019-06-09 "Buy the paperback version of this book and get the kindle book version for free" you know what it is and where we are with AI? where can we arrive? should we be afraid of artificial intelligence? The capabilities of artificial intelligence have fascinated human beings for decades. Advancements in the years following the Second World War provided fodder for science fiction writers as well as computer scientists as they examined what a world filled with artificially intelligent machines might look like. Early imaginings in this area were often strange and exaggerated because the minds that imagined them came from a world were machines were little more than extensions of the human beings that controlled them. In Artificial Intelligence: A Modern Approach, the reader will see that as computer technology advanced, artificial intelligence and human beings seemed to evolve together, creating a world in which both occupied a special place. In Artificial Intelligence: A Modern Approach, the reader will understand artificial intelligence well enough to recognize all the ways in which they already utilize artificial intelligence. Though many men and women in the world today use AI technology like Siri and Alexa, some do not make active use of this type of technology and they see AI as something far removed from their lives. As the reader comes to understand AI better, they will see how facial recognition software, language processing software, and self-driving and maneuvering technology all represent applications of AI that are already a part of their life. Artificial Intelligence: A Modern Approach will explore the liminal world of artificial intelligence, machine learning, and deep learning, and explain how these three forces are shaping the world of the future. No exploration of artificial intelligence would be complete without a review of where AI advancements in the future are likely to lead, specifically in the realms of medicine and business. Artificial Intelligence: A Modern Approach will explore applications of AI in the areas of medicine and business and attempt to paint a picture of how advancements in AI will change the face of these industries. Finally, as much of AI has taken a page from the fiction realm, this book will examine fictional portrayals of AI technology and attempt to separate fact from fiction. This book is designed for the AI enthusiast and the AI beginner. The reader will gain knowledge of artificial intelligence that they can apply to whatever endeavor they choose. Would you like to know more? Scroll to the top of the page and select the buy now button.
Artificial Intelligence: A Modern Approach, 2/E-Russell 2003-09
Artificial Intelligence a Modern Approach-Chris Baker 2020-10-20 Artificial intelligence is a word that carries with it heavy connotations. Although artificial intelligence is nothing more than the capacity for logic and understanding that machines can exhibit, in the minds of most people artificial intelligence is almost a Pandora's box that, when opened, will eventually signal the human race's doom.. The idea that machines pose an existential threat to human beings has been around for at least 60 years. It goes something like this: intelligent machines eventually realize the uselessness of human beings and turn against their creators. Or this: intelligent machines reduce human to cattle or even food after a dramatic war that human beings lose. Human beings have created countless languages and writing systems that have allowed us to expand collective human knowledge over a period of thousands of years. Much of the knowledge that we utilized today, knowledge about the math, science, and the stars, originates from observations made thousands of years ago but which were recorded by writing systems, allowing this knowledge to be preserved and passed down. Artificial intelligence has been used for many business, financial, medical, and other applications, and scientists and researchers are actively studying how these applications can be expanded to make human life simpler. The applications of AI will be explored in this book, both the real applications to business, finance, medicine, and health and the theoretical applications. Even the sensational, perhaps exaggerated applications of AI will be explored in the context of taking a look at how AI may potentially be applied in the future. The purpose of this discussion is for the reader to understand what AI is by understanding how it is used. Artificial intelligence is certainly a blessing at this point, but the reality that it may become a curse is not lost on some people. Understanding the full implications of AI requires a deep knowledge of what it is and where it came from. For companies and businesses to take advantage of AI-powered and improved interactions, the conversation has to begin inside the organization. Leaders are supposed to start with the available channels and improve their smartness. From that point, they are supposed to ask key questions about engagements with customers and employees. Here is a preview of what you will learn... Brief history of artificial intelligence The state of art of machine learning Artificial neural networks applied to machine learning How can we build an AI ready culture Our daily lives with AI And More.....
Multiagent Systems-Gerhard Weiss 1999 An introduction to multiagent systems and contemporary distributed artificial intelligence, this text provides coverage of basic topics as well as closely-related ones. It emphasizes aspects of both theory and application and includes exercises of varying degrees of difficulty.
Artificial Intelligence-Stuart Russell 2019-07 "Updated edition of popular textbook on Artificial Intelligence. This edition specific looks at ways of keeping artificial intelligence under control"--
Artificial Intelligence-Stuart Jonathan Russell 2003 Presents a guide to artificial intelligence, covering such topics as intelligent agents, problem-solving, logical agents, planning, uncertainty, learning, and robotics.
Intelligent Systems-Crina Grosan 2011-07-29 Computational intelligence is a well-established paradigm, where new theories with a sound biological understanding have been evolving. The current experimental systems have many of the characteristics of biological computers (brains in other words) and are beginning to be built to perform a variety of tasks that are difficult or impossible to do with conventional computers. As evident, the ultimate achievement in this field would be to mimic or exceed human cognitive capabilities including reasoning, recognition, creativity, emotions, understanding, learning and so on. This book comprising of 17 chapters offers a step-by-step introduction (in a chronological order) to the various modern computational intelligence tools used in practical problem solving. Staring with different search techniques including informed and uninformed search, heuristic search, minmax, alpha-beta pruning methods, evolutionary algorithms and swarm intelligent techniques; the authors illustrate the design of knowledge-based systems and advanced expert systems, which incorporate uncertainty and fuzziness. Machine learning algorithms including decision trees and artificial neural networks are presented and finally the fundamentals of hybrid intelligent systems are also depicted. Academics, scientists as well as engineers engaged in research, development and application of computational intelligence techniques, machine learning and data mining would find the comprehensive coverage of this book invaluable.
Do the Right Thing-Stuart Jonathan Russell 1991 Like Mooki, the hero of Spike Lee's film "Do the Right Thing," artificially intelligent systems have a hard time knowing what to do in all circumstances. Classical theories of perfect rationality prescribe the "right thing" for any occasion, but no finite agent can compute their prescriptions fast enough. In Do the Right Thing, the authors argue that a new theoretical foundation for artificial intelligence can be constructed in which rationality is a property of "programs" within a finite architecture, and their behavior over time in the task environment, rather than a property of individual decisions. Do the Right Thing suggests that the rich structure that seems to be exhibited by humans, and ought to be exhibited by AI systems, is a necessary result of the pressure for optimal behavior operating within a system of strictly limited resources. It provides an outline for the design of new intelligent systems and describes theoretical and practical tools for bringing about intelligent behavior in finite machines. The tools are applied to game planning and realtime problem solving, with surprising results.
Human Compatible-Stuart Russell 2019 A leading artificial intelligence researcher lays out a new approach to AI that will enable people to coexist successfully with increasingly intelligent machines.
The Artificial Intelligence, 3e Preview Edition-Stuart Russell 2009-08-07 The long-anticipated revision of this #1 selling book offers the most comprehensive, state of the art introduction to the theory and practice of artificial intelligence for modern applications.
Computational Intelligence-Russell C. Eberhart 2011-04-18 Computational Intelligence: Concepts to Implementations provides the most complete and practical coverage of computational intelligence tools and techniques to date. This book integrates various natural and engineering disciplines to establish Computational Intelligence. This is the first comprehensive textbook on the subject, supported with lots of practical examples. It asserts that computational intelligence rests on a foundation of evolutionary computation. This refreshing view has set the book apart from other books on computational intelligence. This book lays emphasis on practical applications and computational tools, which are very useful and important for further development of the computational intelligence field. Focusing on evolutionary computation, neural networks, and fuzzy logic, the authors have constructed an approach to thinking about and working with computational intelligence that has, in their extensive experience, proved highly effective. The book moves clearly and efficiently from concepts and paradigms to algorithms and implementation techniques by focusing, in the early chapters, on the specific con. It explores a number of key themes, including self-organization, complex adaptive systems, and emergent computation. It details the metrics and analytical tools needed to assess the performance of computational intelligence tools. The book concludes with a series of case studies that illustrate a wide range of successful applications. This book will appeal to professional and academic researchers in computational intelligence applications, tool development, and systems. Moves clearly and efficiently from concepts and paradigms to algorithms and implementation techniques by focusing, in the early chapters, on the specific concepts and paradigms that inform the authors' methodologies Explores a number of key themes, including self-organization, complex adaptive systems, and emergent computation Details the metrics and analytical tools needed to assess the performance of computational intelligence tools Concludes with a series of case studies that illustrate a wide range of successful applications Presents code examples in C and C++ Provides, at the end of each chapter, review questions and exercises suitable for graduate students, as well as researchers and practitioners engaged in self-study
Modern Approaches in Machine Learning and Cognitive Science: A Walkthrough-Vinit Kumar Gunjan 2020-02-04 This book discusses various machine learning & cognitive science approaches, presenting high-throughput research by experts in this area. Bringing together machine learning, cognitive science and other aspects of artificial intelligence to help provide a roadmap for future research on intelligent systems, the book is a valuable reference resource for students, researchers and industry practitioners wanting to keep abreast of recent developments in this dynamic, exciting and profitable research field. It is intended for postgraduate students, researchers, scholars and developers who are interested in machine learning and cognitive research, and is also suitable for senior undergraduate courses in related topics. Further, it is useful for practitioners dealing with advanced data processing, applied mathematicians, developers of software for agent-oriented systems and developers of embedded and real-time systems.
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.
Artificial Intelligence a Modern Approach-Adam Jenson 2019-09-25 If you've landed here, you're probably interested in the world of artificial intelligence and in discovering how this can improve your life, day by day, without your knowing it. How? Read on to find out! Halfway through the 20th century, artificial intelligence began to slowly fit into our daily lives; it all began with a game of checkers, in which the AI developed by Arthur Samuel started to compete against high-level players. From here on, the growth was exponential, ranging from simple electronic calculators to intelligences capable of driving a car on their own in our streets. With this book, you will acquire the fundamentals to understand how such an advanced technology can be in your hands every day, literally, as you can also find it in your smartphone! If you are an expert on the subject, this book will not reveal anything new to you, but if you are a beginner curious to discover this new subject, then I can assure you that you will not be disappointed. In this book we will talk about: What is an artificial intelligence and how it works. Find out how AI is changing the world of business, the medical field and marketing. Has society really accepted AI? Will this new technology steal your job? Ethics, benefits and disadvantages that artificial intelligence will bring. How this new technology may be implemented in our future. Don't think that this book is too technical, quite the contrary, during its writing I explicated many curiosities related to our daily lives; for instance, did you know that there are artificial intelligences able to understand whether a politician is lying or not? Buy this book to discover this and other curiosities!
Artificial Intelligence: Pearson New International Edition-Stuart Russell 2013-08-29 For one or two-semester, undergraduate or graduate-level courses in Artificial Intelligence. The long-anticipated revision of this best-selling text offers the most comprehensive, up-to-date introduction to the theory and practice of artificial intelligence. View chapters 3 and 4 from the Third Edition. Artificial Intelligence: A Modern Approach, 3e is available to purchase as an eText for your Kindle™, NOOK™, and the iPhone®/iPad®. You can also purchase the eText for 180 days through CourseSmart http://www.mypearsonstore.com/bookstore/product.asp?isbn=0136067336
Paradigms of Artificial Intelligence Programming-Peter Norvig 2014-06-28 Paradigms of AI Programming is the first text to teach advanced Common Lisp techniques in the context of building major AI systems. By reconstructing authentic, complex AI programs using state-of-the-art Common Lisp, the book teaches students and professionals how to build and debug robust practical programs, while demonstrating superior programming style and important AI concepts. The author strongly emphasizes the practical performance issues involved in writing real working programs of significant size. Chapters on troubleshooting and efficiency are included, along with a discussion of the fundamentals of object-oriented programming and a description of the main CLOS functions. This volume is an excellent text for a course on AI programming, a useful supplement for general AI courses and an indispensable reference for the professional programmer.
Artificial Intelligence a Modern Approach-Professor Lewis Brown 2019-07-29 "Buy the paperback version of this book and get the kindle book version for free"you know what it is and where we are with AI?where can we arrive?should we be afraid of artificial intelligence? The capabilities of artificial intelligence have fascinated human beings for decades. Advancements in the years following the Second World War provided fodder for science fiction writers as well as computer scientists as they examined what a world filled with artificially intelligent machines might look like. Early imaginings in this area were often strange and exaggerated because the minds that imagined them came from a world were machines were little more than extensions of the human beings that controlled them. In Artificial Intelligence: A Modern Approach, the reader will see that as computer technology advanced, artificial intelligence and human beings seemed to evolve together, creating a world in which both occupied a special place. In Artificial Intelligence: A Modern Approach, the reader will understand artificial intelligence well enough to recognize all the ways in which they already utilize artificial intelligence. Though many men and women in the world today use AI technology like Siri and Alexa, some do not make active use of this type of technology and they see AI as something far removed from their lives. As the reader comes to understand AI better, they will see how facial recognition software, language processing software, and self-driving and maneuvering technology all represent applications of AI that are already a part of their life. Artificial Intelligence: A Modern Approach will explore the liminal world of artificial intelligence, machine learning, and deep learning, and explain how these three forces are shaping the world of the future. No exploration of artificial intelligence would be complete without a review of where AI advancements in the future are likely to lead, specifically in the realms of medicine and business. Artificial Intelligence: A Modern Approach will explore applications of AI in the areas of medicine and business and attempt to paint a picture of how advancements in AI will change the face of these industries. Finally, as much of AI has taken a page from the fiction realm, this book will examine fictional portrayals of AI technology and attempt to separate fact from fiction. This book is designed for the AI enthusiast and the AI beginner. The reader will gain knowledge of artificial intelligence that they can apply to whatever endeavor they choose. Would you like to know more?Scroll to the top of the page and select the buy now button.
Artificial Intelligence-Stuart J. Russell 2003
Intelligent Help Systems for UNIX-Stephen J. Hegner 2012-12-06 In this international collection of papers there is a wealth of knowledge on artificial intelligence (AI) and cognitive science (CS) techniques applied to the problem of providing help systems mainly for the UNIX operating system. The research described here involves the representation of technical computer concepts, but also the representation of how users conceptualise such concepts. The collection looks at computational models and systems such as UC, Yucca, and OSCON programmed in languages such as Lisp, Prolog, OPS-5, and C which have been developed to provide UNIX help. These systems range from being menu-based to ones with natural language interfaces, some providing active help, intervening when they believe the user to have misconceptions, and some based on empirical studies of what users actually do while using UNIX. Further papers investigate planning and knowledge representation where the focus is on discovering what the user wants to do, and figuring out a way to do it, as well as representing the knowledge needed to do so. There is a significant focus on natural language dialogue where consultation systems can become active, incorporating user modfelling, natural language generation and plan recognition, modelling metaphors, and users' mistaken beliefs. Much can be learned from seeing how AI and CS techniques can be investigated in depth while being applied to a real test-bed domain such as help on UNIX.
Artificial Intelligence-Chris Baker 2020-10-21 Everything you need to understand and implement Artificial Intelligence! Learn the potential consequences of Artificial Intelligence and how it will shape the world around us in the coming decades! Become familiar with how Artificial Intelligence aims to aid human cognitive limitations and how it is possible that in the future, the AI that humans create becomes inconceivable to humans themselves. And once you have an understanding of what AI is, you can move forward in your journey to create better informed industry-level business AI applications. The book bundle includes: Learning to teach machines to learn! Are you intrigued by the fact that artificial intelligence poses an existential threat to human beings and has been around for at least 60 years? If yes, then here is the best introductory review of Artificial Intelligence and its effects on human behavior and the market. The book is thoroughly examined, neatly composed, significantly intriguing, and insightful. Help yourself understand the concepts of AI and get insights regarding: ● A brief history of artificial intelligence ● The state of art of machine learning ● Artificial neural networks applied to machine learning ● How to build an AI-ready culture ● Effects of AI on our daily lives Adding persistent spirit to your business! Do you often come up with some innovative techniques to lead the industry? If yes, then this book is made for you! It will familiarize you with the advances in industry-level AI and will open your understanding of what to expect in sales shortly. Here is a preview of what you will learn: ● How AI can transform your business ● The correct mindset for social media marketing ● The epoch of chatbots ● How AI can help with recruitment ● Which platforms will best fit business in 2020 ● How AI helps in predicting consumer behavior patterns And More.....
The Use of Knowledge in Analogy and Induction-Stuart Jonathan Russell 1989
Distributed Artificial Intelligence-Satya Prakash Yadav 2020-12-18 Distributed Artificial Intelligence (DAI) came to existence as an approach for solving complex learning, planning, and decision-making problems. When we talk about decision making, there may be some meta-heuristic methods where the problem solving may resemble like operation research. But exactly, it is not related completely to management research. The text examines representing and using organizational knowledge in DAI systems, dynamics of computational ecosystems, and communication-free interactions among rational agents. This publication takes a look at conflict-resolution strategies for nonhierarchical distributed agents, constraint-directed negotiation of resource allocations, and plans for multiple agents. Topics included plan verification, generation, and execution, negotiation operators, representation, network management problem, and conflict-resolution paradigms. The manuscript elaborates on negotiating task decomposition and allocation using partial global planning and mechanisms for assessing nonlocal impact of local decisions in distributed planning. The book will attract researchers and practitioners who are working in management and computer science, and industry persons in need of a beginner to advanced understanding of the basic and advanced concepts.
Artificial Intelligence-Stuart J. Russell 1995
Artificial Intelligence-S. Russell 2003
Artificial Intelligence-David L. Poole 2017-09-25 Artificial Intelligence presents a practical guide to AI, including agents, machine learning and problem-solving simple and complex domains.
Introduction to Information Retrieval-Christopher D. Manning 2008-07-07 Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.
Artificial Intelligence and the Design of Expert Systems-George F. Luger 1989 Provides a thorough discussion of AI's theoretical foundations and advanced applications, including expert system design and knowledge-based programming. It is a wealth of advanced AI topics and applications that should appeal to a broad audience.
Artificial Intelligence: a Modern Approach-Emilia Stones 2017-06-07 Artificial intelligence is growing field of information technology. It has transformed the world we will in. It has made the world more accessible, more social, more advanced and is developing the globe at a rapid speed. It has enabled human beings to study the minute and intricate concepts of science, has facilitated us to create better and much advanced machinery for medical and business purposes. This book contains the topics of utmost important topics with regard to artificial intelligence. It aims to provide thorough insights into this subject and give detailed information about the various uses and methods applied in this area. As this field is emerging at a rapid pace, the contents of this text will help the readers understand the modern concepts and applications of the subject.
Artificial Intelligence-Nils J. Nilsson 1998 This new book, by one of the most respected researchers in Artificial Intelligence, features a radical new 'evolutionary' organization that begins with low level intelligent behavior and develops complex intelligence as the book progresses.
The Master Algorithm-Pedro Domingos 2015-09-22 A thought-provoking and wide-ranging exploration of machine learning and the race to build computer intelligences as flexible as our own In the world's top research labs and universities, the race is on to invent the ultimate learning algorithm: one capable of discovering any knowledge from data, and doing anything we want, before we even ask. In The Master Algorithm, Pedro Domingos lifts the veil to give us a peek inside the learning machines that power Google, Amazon, and your smartphone. He assembles a blueprint for the future universal learner--the Master Algorithm--and discusses what it will mean for business, science, and society. If data-ism is today's philosophy, this book is its bible.
Artificial Intelligence a Modern Approach-Anderson Coen 2020-05-25 Artificial Intelligence a Modern Approach It is no doubt that machine learning, deep learning, and artificial intelligence have made a lot of buzz in the technology world. Nevertheless, technological advancements have made deep learning, ML, and AI a part of our regular lives, unlike most other buzz words, which we tend to forget easily. Apart from that, AI is always here to stay. That's the main reason why if you are wanting to learn more about it, you need to maximize your learning. What better way to do this than a book bundle that brings you from zero to a future proof AI geek? This book has arrived to gear you with a basic, timely grasp of AI as well as its impact. The author offers a non-technical and engaging to vital aspects like natural language processing, deep learning, machine learning, and robotics, among others. Apart from helping you through real-world case studies and implementation steps, the author utilizes his knowledge to develop on the massive queries surrounding AI. Those include ethics, societal trends, and future impact AI will have on daily life, company structures, and world governments. Allow this book to guide you to learn the following topics: An Introduction to Artificial Intelligence Building a System The Fields Best Primed for Artificial Intelligence Successful AI Business Strategy Further Strengthening the AI Business Strategy How To Build a Machine Learning Model Benefits of AI for Businesses Facebook, Amazon, Google, and other tech giants today are far from the only companies on which AI has had - and will continue to have - a substantial outcome. AI is considered a present and the future of your business. Improving your expertise on the subject will prove precious to your preparation for the future of technology. This book is the indispensable handbook that you have been looking for. Well, stress no more! Buy this book and also learn all... and DOWNLOAD IT NOW!
Technology Business Incubation-Rustam Lalkaka 2006 Many businesses around the world use technology as a means to set-up, run and improve their commercial performance but not all countries have sufficient access to technology. In fact the 'digital divide' between rich and poor countries is one of the major international challenges facing our society. Technology Business Incubation describes a concept whereby technological support and services are offered to start-up companies in the fields of engineering, science and technology to help them further their own research and develop viable businesses. Aimed at developed and developing countries this concept could provide a solution in bridging the knowledge gap. Written by Rustam Lalkaka, a well-known expert in the field, the toolkit provides invaluable information for carrying out feasibility studies; preparing business plans; choosing a location; finding sponsors; selecting managers and tenants; and monitoring a technology business incubator. Annexes contain checklists and report pro formas to help prepare relevant documents based on local needs
The Alignment Problem: Machine Learning and Human Values-Brian Christian 2020-10-06 A jaw-dropping exploration of everything that goes wrong when we build AI systems and the movement to fix them. Today's "machine-learning" systems, trained by data, are so effective that we've invited them to see and hear for us—and to make decisions on our behalf. But alarm bells are ringing. Recent years have seen an eruption of concern as the field of machine learning advances. When the systems we attempt to teach will not, in the end, do what we want or what we expect, ethical and potentially existential risks emerge. Researchers call this the alignment problem. Systems cull résumés until, years later, we discover that they have inherent gender biases. Algorithms decide bail and parole—and appear to assess Black and White defendants differently. We can no longer assume that our mortgage application, or even our medical tests, will be seen by human eyes. And as autonomous vehicles share our streets, we are increasingly putting our lives in their hands. The mathematical and computational models driving these changes range in complexity from something that can fit on a spreadsheet to a complex system that might credibly be called "artificial intelligence." They are steadily replacing both human judgment and explicitly programmed software. In best-selling author Brian Christian's riveting account, we meet the alignment problem's "first-responders," and learn their ambitious plan to solve it before our hands are completely off the wheel. In a masterful blend of history and on-the ground reporting, Christian traces the explosive growth in the field of machine learning and surveys its current, sprawling frontier. Readers encounter a discipline finding its legs amid exhilarating and sometimes terrifying progress. Whether they—and we—succeed or fail in solving the alignment problem will be a defining human story. The Alignment Problem offers an unflinching reckoning with humanity's biases and blind spots, our own unstated assumptions and often contradictory goals. A dazzlingly interdisciplinary work, it takes a hard look not only at our technology but at our culture—and finds a story by turns harrowing and hopeful.
Artificial Intelligence-Melanie Mitchell 2019-10-15 Melanie Mitchell separates science fact from science fiction in this sweeping examination of the current state of AI and how it is remaking our world No recent scientific enterprise has proved as alluring, terrifying, and filled with extravagant promise and frustrating setbacks as artificial intelligence. The award-winning author Melanie Mitchell, a leading computer scientist, now reveals AI's turbulent history and the recent spate of apparent successes, grand hopes, and emerging fears surrounding it. In Artificial Intelligence, Mitchell turns to the most urgent questions concerning AI today: How intelligent—really—are the best AI programs? How do they work? What can they actually do, and when do they fail? How humanlike do we expect them to become, and how soon do we need to worry about them surpassing us? Along the way, she introduces the dominant models of modern AI and machine learning, describing cutting-edge AI programs, their human inventors, and the historical lines of thought underpinning recent achievements. She meets with fellow experts such as Douglas Hofstadter, the cognitive scientist and Pulitzer Prize–winning author of the modern classic Gödel, Escher, Bach, who explains why he is "terrified" about the future of AI. She explores the profound disconnect between the hype and the actual achievements in AI, providing a clear sense of what the field has accomplished and how much further it has to go. Interweaving stories about the science of AI and the people behind it, Artificial Intelligence brims with clear-sighted, captivating, and accessible accounts of the most interesting and provocative modern work in the field, flavored with Mitchell's humor and personal observations. This frank, lively book is an indispensable guide to understanding today's AI, its quest for "human-level" intelligence, and its impact on the future for us all.
Artificial Intelligence-Cram101 Textbook Reviews 2009-01 Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780137903955 .
Proving Einstein Right-S. James Gates, 2019-09-24 A thrilling adventure story chronicling the perilous journey of the scientists who set out to prove the theory of relativity--the results of which catapulted Albert Einstein to fame and forever changed our understanding of the universe. In 1911, a relatively unknown physicist named Albert Einstein published his preliminary theory of gravity. But it hadn't been tested. To do that, he needed a photograph of starlight as it passed the sun during a total solar eclipse. So began a nearly decade-long quest by seven determined astronomers from observatories in four countries, who traveled the world during five eclipses to capture the elusive sight. Over the years, they faced thunderstorms, the ravages of a world war, lost equipment, and local superstitions. Finally, in May of 1919, British expeditions to northern Brazil and the island of Príncipe managed to photograph the stars, confirming Einstein's theory. At its heart, this is a story of frustration, faith, and ultimate victory--and of the scientists whose efforts helped build the framework for the big bang theory, catapulted Einstein to international fame, and shook the foundation of physics.
Artificial Intelligence with Python-Alberto Artasanchez 2020-01-31 New edition of the bestselling guide to artificial intelligence with Python, updated to Python 3.x, with seven new chapters that cover RNNs, AI and Big Data, fundamental use cases, chatbots, and more. Key Features Completely updated and revised to Python 3.x New chapters for AI on the cloud, recurrent neural networks, deep learning models, and feature selection and engineering Learn more about deep learning algorithms, machine learning data pipelines, and chatbots Book Description Artificial Intelligence with Python, Second Edition is an updated and expanded version of the bestselling guide to artificial intelligence using the latest version of Python 3.x. Not only does it provide you an introduction to artificial intelligence, this new edition goes further by giving you the tools you need to explore the amazing world of intelligent apps and create your own applications. This edition also includes seven new chapters on more advanced concepts of Artificial Intelligence, including fundamental use cases of AI; machine learning data pipelines; feature selection and feature engineering; AI on the cloud; the basics of chatbots; RNNs and DL models; and AI and Big Data. Finally, this new edition explores various real-world scenarios and teaches you how to apply relevant AI algorithms to a wide swath of problems, starting with the most basic AI concepts and progressively building from there to solve more difficult challenges so that by the end, you will have gained a solid understanding of, and when best to use, these many artificial intelligence techniques. What you will learn Understand what artificial intelligence, machine learning, and data science are Explore the most common artificial intelligence use cases Learn how to build a machine learning pipeline Assimilate the basics of feature selection and feature engineering Identify the differences between supervised and unsupervised learning Discover the most recent advances and tools offered for AI development in the cloud Develop automatic speech recognition systems and chatbots Apply AI algorithms to time series data Who this book is for The intended audience for this book is Python developers who want to build real-world Artificial Intelligence applications. Basic Python programming experience and awareness of machine learning concepts and techniques is mandatory.

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