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Artificial Intelligence Artificial Intelligence Artificial Intelligence: A Systems Approach Artificial Intelligence By Example Artificial Intelligence Artificial Intelligence: A Very Short Introduction Introduction to Artificial Intelligence Artificial Intelligence The Myth of Artificial Intelligence Readings in Artificial Intelligence Artificial Intelligence: A Modern Approach, Global Edition Principles of Artificial Intelligence Essentials of Artificial Intelligence Artificial Intelligence Welcome to AI Artificial Intelligence Artificial Intelligence Artificial Intelligence: From Beginning To Date Understanding Artificial Intelligence Human Compatible Artificial Intelligence a Modern Approach The Quest for Artificial Intelligence Artificial Intelligence a Modern Approach Artificial Intelligence Artificial Intelligence a Modern Approach Artificial Intelligence Exploring Artificial Intelligence in the New Millennium Logical Foundations of Artificial Intelligence The Foundations of Artificial Intelligence Artificial Intelligence: An Introduction Artificial Intelligence and the Two Singularities Artificial Intelligence Artificial Intelligence Artificial Intelligence The AI Advantage The Atlas of AI Contemporary Artificial Intelligence Artificial Intelligence Understanding Artificial Intelligence The Essence of Artificial Intelligence

Artificial Intelligence

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

2010

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 Systems Approach

2008-12-26

this book offers students and ai programmers a new perspective on the study of artificial intelligence concepts the essential topics and theory of ai are presented but it also includes practical information on data input reduction as well as data output i e algorithm usage because traditional ai concepts such as pattern recognition numerical optimization and data mining are now simply types of algorithms a different approach is needed this sensor algorithm effector approach grounds the algorithms with an environment helps students and ai practitioners to better understand them and subsequently how to apply them the book has numerous up to date applications in game programming intelligent agents neural networks artificial immune systems and more a cd rom with simulations code and figures accompanies the book

Artificial Intelligence By Example

2018-05-31

be an adaptive thinker that leads the way to artificial intelligence key features ai based examples to guide you in designing and implementing machine intelligence develop your own method for future ai solutions acquire advanced ai machine learning and deep learning design skills book description artificial intelligence has the potential to replicate humans in every field this book serves as a starting point for you to understand how ai is built with the help of intriguing examples and case studies artificial intelligence by example will make you an adaptive thinker and help you apply concepts to real life scenarios using some of the most interesting ai examples right from a simple chess engine to a cognitive chatbot you will learn how to tackle the machine you are competing with you will study some of the most advanced machine learning models understand how to apply ai to blockchain and iot and develop emotional quotient in chatbots using neural networks you will move on to designing ai solutions in a simple manner rather than get confused by complex architectures and techniques this comprehensive guide will be a starter kit for you to develop ai

applications on your own by the end of this book will have understood the fundamentals of ai and worked through a number of case studies that will help you develop business vision what you will learn use adaptive thinking to solve real life ai case studies rise beyond being a modern day factory code worker acquire advanced ai machine learning and deep learning designing skills learn about cognitive nlp chatbots quantum computing and iot and blockchain technology understand future ai solutions and adapt quickly to them develop out of the box thinking to face any challenge the market presents who this book is for artificial intelligence by example is a simple explanatory and descriptive guide for junior developers experienced developers technology consultants and those interested in ai who want to understand the fundamentals of artificial intelligence and implement it practically by devising smart solutions prior experience with python and statistical knowledge is essential to make the most out of this book

Artificial Intelligence

2019-07

updated edition of popular textbook on artificial intelligence this edition specific looks at ways of keeping artificial intelligence under control

Artificial Intelligence: A Very Short Introduction

2018-08-16

the applications of artificial intelligence lie all around us in our homes schools and offices in our cinemas in art galleries and not least on the internet the results of artificial intelligence have been invaluable to biologists psychologists and linguists in helping to understand the processes of memory learning and language from a fresh angle as a concept artificial intelligence has fuelled and sharpened the philosophical debates concerning the nature of the mind intelligence and the uniqueness of human beings in this very short introduction margaret a boden reviews the philosophical and technological challenges raised by artificial intelligence considering whether programs could ever be really intelligent creative or even conscious and shows how the pursuit of artificial intelligence has helped us to appreciate how human and animal minds are possible about the series the very short introductions series from oxford university press contains hundreds of titles in almost every subject area these pocket sized books are the perfect way to get ahead in a new subject quickly our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

Introduction to Artificial Intelligence

2016-08-31

in the chapters in part i of this textbook the author introduces the fundamental ideas of artificial intelligence and computational intelligence in part ii he explains key ai methods such as search evolutionary computing logic based reasoning knowledge representation rule based systems pattern recognition neural networks and cognitive architectures finally in part iii he expands the context to discuss theories of intelligence in philosophy and psychology key applications of ai systems and the likely future of artificial intelligence a key feature of the author s approach is historical and biographical footnotes stressing the multidisciplinary character of the field and its pioneers the book is appropriate for advanced undergraduate and graduate courses in computer science engineering and other applied sciences and the appendices offer short formal mathematical models and notes to support the reader

Artificial Intelligence

1998-04

nilsson employs increasingly capable intelligent agents in an evolutionary approach a novel perspective from which to view and teach topics in artificial intelligence

The Myth of Artificial Intelligence

2021-04-06

exposes the vast gap between the actual science underlying ai and the dramatic claims being made for it john horgan if you want to know about ai read this book it shows how a supposedly futuristic reverence for artificial intelligence retards progress when it denigrates our most irreplaceable resource for any future progress our own human intelligence peter thiel ever since alan turing ai enthusiasts have equated artificial intelligence with human intelligence a computer scientist working at the forefront of natural language processing erik larson takes us on a tour of the landscape of ai to reveal why this is a profound mistake ai works on inductive reasoning crunching data sets to predict outcomes but humans don t correlate data sets we make conjectures informed by context and experience and we haven t a clue how to program that kind of intuitive reasoning which lies at the heart of common sense futurists insist ai will soon eclipse the capacities of the most gifted mind but larson shows how far we are from superintelligence and what it would take to get there larson worries that we re making two mistakes at once defining human intelligence down while overestimating what ai is likely to achieve another concern is learned passivity our tendency to assume that ai will solve problems and our failure as a result to cultivate human ingenuity david a shaywitz wall street journal a convincing case that artificial general intelligence machine based intelligence that matches our own is beyond the capacity of algorithmic machine learning because there is a mismatch between how humans and machines know what they know sue halpern new york review of books

Readings in Artificial Intelligence

1981

the purpose of this collection is to make accessible in one place a number of the seminal research papers in the field of artificial intelligence these papers cover a wide variety of topics some are theoretical and some experimental as many of the papers included here are difficult to find elsewhere having originally been published in conference proceedings or journals that are no longer in print the researcher or student will find this volume a valuable sourcebook of fundamental ai research the editors have added useful introductions to each section and a comprehensive subject index

Artificial Intelligence: A Modern Approach, Global Edition

2016-07-25

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 the full text downloaded to your computer with ebooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends ebooks are downloaded to your computer and accessible either offline through the bookshelf available as a free download available online and also via the ipad and android apps upon purchase you ll gain instant access to this ebook time limit the ebooks products do not have an expiry date you will continue to access your digital ebook products whilst you have your bookshelf installed

Principles of Artificial Intelligence

2014-06-28

a classic introduction to artificial intelligence intended to bridge the gap between theory and practice principles of artificial intelligence describes fundamental ai ideas that underlie applications such as natural language processing automatic programming robotics machine vision automatic theorem proving and intelligent data retrieval rather than focusing on the subject matter of the applications the book is organized around general computational concepts involving the kinds of data structures used the types of operations performed on the data structures and the properties of the control strategies used principles of artificial intelligence evolved from the author s courses and seminars at stanford university and university of massachusetts amherst and is suitable for text use in a senior or graduate ai course or

for individual study

Essentials of Artificial Intelligence

2012-12-02

since its publication essentials of artificial intelligence has been adopted at numerous universities and colleges offering introductory ai courses at the graduate and undergraduate levels based on the author s course at stanford university the book is an integrated cohesive introduction to the field the author has a fresh entertaining writing style that combines clear presentations with humor and ai anecdotes at the same time as an active ai researcher he presents the material authoritatively and with insight that reflects a contemporary first hand understanding of the field pedagogically designed this book offers a range of exercises and examples

Artificial Intelligence

1983

a fascinating guide to the rapidly advancing world of artificial intelligence and how this powerful technology will impact our lives our careers and our world artificial intelligence is driving workforce disruption on a scale not seen since the industrial revolution in schools and universities ai technology has forced a reevaluation of the way students are taught and assessed meanwhile chatgpt has become a cultural phenomenon reaching a hundred million users and attracting a reputed 1 trillion investor interest in its parent company openai the race to dominate the generative ai market is accelerating at breakneck speed inspiring breathless headlines and immense public interest welcome to ai provides a rare view into a frontier area of computer science that will change everything about how you live and work read this book and better understand how to succeed in the ai enabled future

Welcome to AI

2024-03-05

i propose to consider the question can machines think alan turing 1950 part of the all new ladybird expert series this book is for everyone living in the age of artificial intelligence and this is an accessible and authoritative introduction to one of the most important conversations of our time written by computer scientist michael wooldridge artificial intelligence chronicles the development of intelligent machines from turing s dream of machines that think to today s digital assistants like siri and alexa ai is not something that awaits us in the future inside you ll learn how we have come to rely on embedded ai software and what a world of ubiquitous ai might look like what s inside the british mathematician alan turing can machines understand logical and behavioural ai the reality of ai today ai tomorrow and much more for an adult readership the ladybird expert series is produced in the same iconic small hardback format pioneered by the original ladybirds each beautifully illustrated book features the first new illustrations produced in the original ladybird style for nearly forty years

Artificial Intelligence

1986

this english edition monograph is developed and updated from china s best selling and award winning book on artificial intelligence ai it covers the foundations as well as the latest developments of ai in a comprehensive and systematic manner it is a valuable guide for students and researchers on artificial intelligence a wide range of topics in ai are covered in this book with four distinct features first of all the book comprises a comprehensive system covering the core technology of ai including the basic theories and techniques of traditional artificial intelligence and the basic principles and methods of computational intelligence secondly the book focuses on innovation covering advanced learning methods for machine learning and deep learning techniques and other artificial intelligence that have been widely used in recent

years thirdly the theory and practice of the book are highly integrated there are theories techniques and methods as well as many application examples which will help readers to understand the artificial intelligence theory and its application development fourthly the content structure of the book is quite characteristic consisting of three parts i knowledge based artificial intelligence ii data based artificial intelligence and iii artificial intelligence applications it is closely related to the core elements of artificial intelligence namely knowledge data algorithms and computing powers this reflects the authors deep understanding of the artificial intelligence discipline

Artificial Intelligence

2018-03-22

understanding artificial intelligence provides students across majors with a clear and accessible overview of new artificial intelligence technologies and applications artificial intelligence ai is broadly defined as computers programmed to simulate the cognitive functions of the human mind in combination with the neural network nn big data bd and the internet of things iot artificial intelligence has transformed everyday life self driving cars delivery drones digital assistants facial recognition devices autonomous vacuum cleaners and mobile navigation apps all rely on ai to perform tasks with the rise of artificial intelligence the job market of the near future will be radically different many jobs will disappear yet new jobs and opportunities will emerge understanding artificial intelligence fundamentals and applications covers the fundamental concepts and key technologies of ai while exploring its impact on the future of work requiring no previous background in artificial intelligence this easy to understand textbook addresses ai challenges in healthcare finance retail manufacturing agriculture government and smart city development each chapter includes simple computer laboratories to teach students how to develop artificial intelligence applications and integrate software and hardware for robotic development in addition this text focuses on artificial intelligence applications in different industries and sectors traces the history of neural networks and explains popular neural network architectures covers ai technologies such as machine vision mv natural language processing nlp and unmanned aerial vehicles uav describes various artificial intelligence computational platforms including google tensor processing unit tpu and kneron neural processing unit npu highlights the development of new artificial intelligence hardware and architectures understanding artificial intelligence fundamentals and applications is an excellent textbook for undergraduates in business humanities the arts science healthcare engineering and many other disciplines it is also an invaluable guide for working professionals wanting to learn about the ways ai is changing their particular field

Artificial Intelligence: From Beginning To Date

2021-05-25

the most important book on ai this year the guardian mr russell s exciting book goes deep while sparkling with dry witticisms the wall street journal the most important book i have read in quite some time daniel Kahneman a must read max tegmark the book we ve all been waiting for sam harris a leading artificial intelligence researcher lays out a new approach to ai that will enable us to coexist successfully with increasingly intelligent machines in the popular imagination superhuman artificial intelligence is an approaching tidal wave that threatens not just jobs and human relationships but civilization itself conflict between humans and machines is seen as inevitable and its outcome all too predictable in this groundbreaking book distinguished ai researcher stuart russell argues that this scenario can be avoided but only if we rethink ai from the ground up russell begins by exploring the idea of intelligence in humans and in machines he describes the near term benefits we can expect from intelligent personal assistants to vastly accelerated scientific research and outlines the ai breakthroughs that still have to happen before we reach superhuman ai he also spells out the ways humans are already finding to misuse ai from lethal autonomous weapons to viral sabotage if the predicted breakthroughs occur and superhuman ai emerges we will have created entities far more powerful than ourselves how can we ensure they never ever have power over us russell suggests that we can rebuild ai on a new foundation according to which machines are designed to be inherently uncertain about the human preferences they are required to satisfy such machines would be humble altruistic and committed to pursue our objectives not theirs this new foundation would allow us to create machines that are provably deferential and provably beneficial

Understanding Artificial Intelligence

2022-09-21

buy the paperback version for this book and get the kindle book version for free 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 americans artificial intelligence is almost a pandora s box that when opened will eventually signal the human race s doom read on your pc mac smart phone tablet or kindle device 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 would you like to know more scroll to the top of the page and select the buy now button

Human Compatible

2019-10-08

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

Artificial Intelligence a Modern Approach

2019-07-24

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 where 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

The Quest for Artificial Intelligence

2009-10-30

this textbook covers the broader field of artificial intelligence the chapters for this textbook span within three categories deductive reasoning methods these methods start with pre defined hypotheses and reason with them in order to arrive at logically sound conclusions the underlying methods include search and logic based methods these methods are discussed in chapters 1 through 5 inductive learning methods these methods start with examples and use statistical methods in order to arrive at hypotheses examples include regression modeling support vector machines neural networks reinforcement learning unsupervised learning and probabilistic graphical models these methods are discussed in chapters 6 through 11 integrating reasoning and learning chapters 11 and 12 discuss techniques for integrating reasoning and learning examples include the use of knowledge graphs and neuro symbolic artificial intelligence the primary audience for this textbook are professors and advanced level students in computer science it is also possible to use this textbook for the mathematics requirements for an undergraduate data science course professionals working in this related field many also find this textbook useful as a reference

Artificial Intelligence a Modern Approach

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 where 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

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Artificial Intelligence

2021-07-16

if you want to learn key ai concepts to get you quickly up to speed with all things ai then keep reading two manuscripts in one book artificial intelligence what you need to know about machine learning robotics deep learning recommender systems internet of things neural networks reinforcement learning and our future internet of things what you need to know about iot big data predictive analytics artificial intelligence machine learning cybersecurity business intelligence augmented reality and our future this book covers everything from machine learning to robotics and the internet of things you can use it as a nifty guidebook whenever you come across news headlines that talk about some new advancement in ai by google or facebook by the time you finish reading you will be aware of what artificial neural networks are how gradient descent and back propagation work and what deep learning is you will also learn a comprehensive history of ai from the first invention of automations in antiquity to the driver less cars of today in part 1 of this book you will understand how machines can think and how they learn learn the five reasons why experts are warning us about ai research find the answers to the top six myths of artificial intelligence learn what neural networks are and how they work the brains of machine learning understand reinforcement learning and how it is used to teach machine learning systems through experience become up to date with the current state of the art artificial intelligence methods that use deep learning learn the basics of recommender systems expand your current view of machines and what is possible with modern robotics enter the vast world of the internet of things technologies find out why ai is the new business degree and much much more some of the topics covered in part 2 of this book include origins of iot iot security ethical hacking internet of things under the cushy foot of tech giants the power of infinite funds iot toys bio robotics predictive analytics machine learning artificial intelligence cybersecurity big data business intelligence augmented reality virtual reality our future and much much more if you want to learn more about the artificial intelligence and internet of things then scroll up and click add to cart

Artificial Intelligence a Modern Approach

2019-06-09

this guide is a unique presentation of the spectrum of ongoing research in artificial intelligence an ideal collection for personal reference or for use in introductory courses in ai and its subfields exploring artificial intelligence in the new millennium is essential reading for anyone interested in the intellectual and technological challenges of ai

Artificial Intelligence

2019-04-06

intended both as a text for advanced undergraduates and graduate students and as a key reference work for ai researchers and developers logical foundations of artificial intelligence is a lucid rigorous and comprehensive account of the fundamentals of artificial intelligence from the standpoint of logic the first section of the book introduces the logicist approach to ai discussing the representation of declarative knowledge and featuring an introduction to the process of conceptualization the syntax and semantics of predicate calculus and the basics of other declarative representations such as frames and semantic nets this section also provides a simple but powerful inference procedure resolution and shows how it can be used in a reasoning system the next several chapters discuss nonmonotonic reasoning induction and reasoning under uncertainty broadening the logical approach to deal with the inadequacies of strict logical deduction the third section introduces modal operators that facilitate representing and reasoning about knowledge this section also develops the process of writing predicate calculus sentences to the metalevel to permit sentences about sentences and about reasoning processes the final three chapters discuss the representation of knowledge about states and actions planning and intelligent system architecture end of chapter bibliographic and historical comments provide background and point to other works of interest and research each chapter also contains numerous student exercises with solutions provided in an appendix to reinforce concepts and challenge the learner a bibliography and index complete this comprehensive work

Exploring Artificial Intelligence in the New Millennium

2003

this outstanding collection is designed to address the fundamental issues and principles underlying the task of artificial intelligence

Logical Foundations of Artificial Intelligence

2012-07-05

the intelligence displayed by machines is known as artificial intelligence autonomously operating cars intelligent routing in content delivery networks natural language understanding etc are some of the modern machine capabilities which are generally classified as ai there are three types of artificial intelligence systems humanized human inspired and analytical artificial intelligence the long term goal of artificial intelligence is to develop general intelligence a few of the other goals are planning learning reasoning and perception artificial intelligence finds its applications in many fields such as software engineering operations research and computer science along with healthcare economics and video games this book unfolds the innovative aspects of artificial intelligence which will be crucial for the progress of this field in the future some of the diverse topics covered in this book address the varied branches that fall under this category it will serve as a valuable source of reference for graduate and postgraduate students

The Foundations of Artificial Intelligence

1990-04-26

the science of ai was born a little over 60 years ago but for most of that time its achievements were modest in 2012 it experienced a big bang when a branch of statistics called machine learning and a sub branch called deep learning was applied to it now machines have surpassed humans in image recognition and they are catching up with us at speech recognition and natural language processing every day the media reports the launch of a new service a new product and a new demonstration powered by ai when will it end the surprising truth is the ai revolution has only just begun artificial intelligence and the two singularities argues that in the course of this century the exponential growth in the capability of ai is likely to bring about two singularities points at which conditions are so extreme that the normal rules break down the first is the economic singularity when machine skill reaches a level that renders many of us unemployable and requires an overhaul of our current economic and social systems the second is the technological singularity when machine intelligence reaches and then surpasses the cognitive abilities of an adult human relegating us to the second smartest species on the planet these singularities will present huge challenges but this book argues that we can meet these challenges and overcome them if we do the rewards could be almost unimaginable this book covers recent developments in ai and its future potential the economic singularity and the technological singularity in depth the risks and opportunities presented by ai what actions we should take artificial intelligence can turn out to be the best thing ever to happen to humanity making our future wonderful almost beyond imagination but only if we address head on the challenges that it will raise calum chace is a best selling author of fiction and non fiction books and articles focusing on the subject of artificial intelligence he is a regular speaker on artificial intelligence and related technologies and runs a blog on the subject at pandoras brain com prior to becoming a full time writer and speaker he spent 30 years in business as a marketer a strategy consultant and a ceo he studied philosophy at oxford university where he discovered that the science fiction he had been reading since boyhood was simply philosophy in fancy dress

Artificial Intelligence: An Introduction

2021-11-16

this book is a complete introduction to artificial intelligence for its beginning in 1956 in a conference on the subject at dartmouth college the term ai was coined by john mcCarthy and others the book covers the modern topics such as chatgpt and watson at ibm the book covers learning thinking generative systems and other modern topics

the book is easy to read and is accessible to persons of all ages there is no violence no sex and no bad language

Artificial Intelligence and the Two Singularities

2018-04-20

over the coming decades artificial intelligence will profoundly impact the way we live work wage war play seek a mate educate our young and care for our elderly it is likely to greatly increase our aggregate wealth but it will also upend our labor markets reshuffle our social order and strain our private and public institutions eventually it may alter how we see our place in the universe as machines pursue goals independent of their creators and outperform us in domains previously believed to be the sole dominion of humans whether we regard them as conscious or unwitting revere them as a new form of life or dismiss them as mere clever appliances is beside the point they are likely to play an increasingly critical and intimate role in many aspects of our lives the emergence of systems capable of independent reasoning and action raises serious questions about just whose interests they are permitted to serve and what limits our society should place on their creation and use deep ethical questions that have bedeviled philosophers for ages will suddenly arrive on the steps of our courthouses can a machine be held accountable for its actions should intelligent systems enjoy independent rights and responsibilities or are they simple property who should be held responsible when a self driving car kills a pedestrian can your personal robot hold your place in line or be compelled to testify against you if it turns out to be possible to upload your mind into a machine is that still you the answers may surprise you

Artificial Intelligence

2023-08-04

cutting through the hype a practical guide to using artificial intelligence for business benefits and competitive advantage in the ai 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

Artificial Intelligence

2016

the hidden costs of artificial intelligence from natural resources and labor to privacy and freedom what happens when artificial intelligence saturates political life and depletes the planet how is ai shaping our understanding of ourselves and our societies in this book kate crawford reveals how this planetary network is fueling a shift toward undemocratic governance and increased inequality drawing on more than a decade of research award winning science and technology crawford reveals how ai is a technology of extraction from the energy and minerals needed to build and sustain its infrastructure to the exploited workers behind automated services to the data ai collects from us rather than taking a narrow focus on code and algorithms crawford offers us a political and a material perspective on what it takes to make artificial intelligence and where it goes wrong while technical systems present a veneer of objectivity they are always systems of power this is an urgent account of what is at

stake as technology companies use artificial intelligence to reshape the world

Artificial Intelligence

1980

the notion of artificial intelligence ai often sparks thoughts of characters from science fiction such as the terminator and hal 9000 while these two artificial entities do not exist the algorithms of ai have been able to address many real issues from performing medical diagnoses to navigating difficult terrain to monitoring possible failures of spacecrafts exploring these algorithms and applications contemporary artificial intelligence presents strong ai methods and algorithms for solving challenging problems involving systems that behave intelligently in specialized domains such as medical and software diagnostics financial decision making speech and text recognition genetic analysis and more one of the first ai texts accessible to students the book focuses on the most useful problem solving strategies that have emerged from ai in a student friendly way the authors cover logic based methods probability based methods emergent intelligence including evolutionary computation and swarm intelligence data derived logical and probabilistic learning models and natural language understanding through reading this book students discover the importance of ai techniques in computer science

The AI Advantage

2019-08-06

a concise practical introduction to artificial intelligence this title starts with the fundamentals of knowledge representation inference expert systems natural language processing machine learning neural networks agents robots and much more examples and algorithms are presented throughout and the book includes a complete glossary

The Atlas of AI

2021-04-06

Contemporary Artificial Intelligence

2012-08-25

Artificial Intelligence

1990

Understanding Artificial Intelligence

1985

The Essence of Artificial Intelligence

1998

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