

Reading free Agents and artificial intelligence [PDF]

Artificial Intelligence Illuminated Computer Science and Artificial Intelligence Foundations of Artificial Intelligence Artificial Intelligence Artificial Intelligence and Exponential Technologies: Business Models Evolution and New Investment Opportunities Artificial Intelligence Artificial Intelligence versus Human Intelligence As If Human Artificial Intelligence: an Illustrated History Distributed Computing and Artificial Intelligence, 16th International Conference Artificial Intelligence in the 21st Century Artificial Intelligence Augmented Reality and Artificial Intelligence Artificial Intelligence Alchemy and Artificial Intelligence Artificial Intelligence and Robotics Machine Learning and Artificial Intelligence Artificial Intelligence Artificial Intelligence Common Sense, the Turing Test, and the Quest for Real AI Artificial Intelligence Machine Learning and AI in Finance Distributed Computing and Artificial Intelligence, 15th International Conference Operations Research and Artificial Intelligence: The Integration of Problem-Solving Strategies Neural Networks and Artificial Intelligence Applied Artificial Intelligence in Business Smart and Intelligent Systems Human and Artificial Intelligence Machine Learning and Artificial Intelligence Affect and Artificial Intelligence Mind Mapping and Artificial Intelligence Artificial Intelligence: Concepts, Tools and Techniques Artificial Superintelligence Machine Learning and Artificial Intelligence in Marketing and Sales Artificial Intelligence Basics Artificial Intelligence Trends for Data Analytics Using Machine Learning and Deep Learning Approaches An Intelligence in Our Image Creative Applications of Artificial Intelligence in Education Expert Systems and Artificial Intelligence Artificial Intelligence

Artificial Intelligence Illuminated

2004

artificial intelligence illuminated presents an overview of the background and history of artificial intelligence emphasizing its importance in today s society and potential for the future the book covers a range of ai techniques algorithms and methodologies including game playing intelligent agents machine learning genetic algorithms and artificial life material is presented in a lively and accessible manner and the author focuses on explaining how ai techniques relate to and are derived from natural systems such as the human brain and evolution and explaining how the artificial equivalents are used in the real world each chapter includes student exercises and review questions and a detailed glossary at the end of the book defines important terms and concepts highlighted throughout the text

Computer Science and Artificial Intelligence

1997-06-10

the focus of this report is on artificial intelligence ai and human computer interface hci technology observations conclusions and recommendations regarding ai and hci are presented in terms of six grand challenge areas which serve to identify key scientific and engineering issues and opportunities chapter 1 presents the panel s definitions of these and related terms chapter 2 presents the panel s general observations and recommendations regarding ai and hci finally chapter 3 discusses computer science ai and hci in terms of the six selected grand challenge areas and three time horizons that is short term within the next 2 years midterm 2 to 6 years and long term more than 6 years from now and presents additional recommendations in these areas

Foundations of Artificial Intelligence

1992

in the 11 contributions theorists historically associated with each position identify the basic tenets of their position have the classical methods and ideas of ai outlived their usefulness foundations of artificial intelligence critically evaluates the fundamental assumptions underpinning the dominant approaches to ai in the 11 contributions theorists historically associated with each position identify the basic tenets of their position they discuss the underlying principles describe the natural types of problems and tasks in which their approach succeeds explain where its power comes from and what its scope and limits are theorists generally skeptical of these positions evaluate the effectiveness of the method or approach and explain why it works to the extent they believe it does and why it eventually fails contentsfoundations of ai the big issues d kirsh logic and artificial intelligence n j nilsson rigor mortis a response to nilsson s logic and artificial intelligence l birnbaum open information systems semantics for distributed artificial intelligence c hewitt social conceptions of knowledge and action dai foundations and open systems semantics l gasser intelligence without representation r a brooks today the earwig tomorrow man d kirsh on the thresholds of knowledge d b lenat e a feigenbaum the owl and the electric encyclopedia b c smith a preliminary analysis of the soar architecture as a basis for general intelligence p s rosenbloom j e laird a newell r mccarl approaches to the study of intelligence d a norman

Artificial Intelligence

2003

this jargon free guide introduces the futuristic world of artificial intelligence the science of creating machines that can think for themselves

Artificial Intelligence and Exponential Technologies: Business Models Evolution and New Investment Opportunities

2017-01-11

artificial intelligence is a huge breakthrough technology that is changing our world it requires some degrees of technical skills to be developed and understood so in this book we are going to first of all define ai and categorize it with a non technical language we will explain how we reached this phase and what historically happened to artificial intelligence in the last century recent advancements in machine learning neuroscience and artificial intelligence technology will be addressed and new business models introduced for and by artificial intelligence research will be analyzed finally we will describe the investment landscape through the quite comprehensive study of almost 14 000 ai companies and we will discuss important features and characteristics of both ai investors as well as investments this is the internet of thinks era ai is revolutionizing the world we live in it is augmenting the human experiences and it targets to amplify human intelligence in a future not so distant from today although ai can change our lives it comes also with some responsibilities we need to start thinking about how to properly design an ai engine for specific purposes as well as how to control it and perhaps switch it off if needed and above all we need to start trusting our technology and its ability to reach an effective and smart decision

Artificial Intelligence

2019-10

from humble evolutions in research papers and labs artificial intelligence ai which encompasses machine learning ml and deep learning dl has matured in its many forms infused in applications that can learn on their own and become progressively smarter with each interaction and transaction coupled with immense stores of data maturity in cpu and gpu hardware the invention of new open source deep learning algorithms and cloud technologies operational ai has become available to the masses setting the wheels in motion for a worldwide ai revolution that has never been seen before this book attempts to help the reader on their ai journey by covering the concepts of ai machine learning and deep learning in its many forms key ml and dl algorithms data scientists should learn ethical challenges for the use of ai how ai is being used across industries possible future outlook for ai and an ai ladder to help accelerate the ai journey

Artificial Intelligence versus Human Intelligence

2019-05-31

this book showcases the fascinating but problematic relationship between human intelligence and artificial intelligence ai is often discussed in the media as if bodiless intelligence could exist without a consciousness without an unconscious without thoughts using a wealth of anecdotes data from academic literature and original research this short book examines in what circumstances robots can replace humans and demonstrates that by operating beyond direct human control strong artificial intelligence may pose serious problems paving the way for all manner of extrapolations for example implanting silicon chips in the brains of a privileged caste and exposing the significant gap still present between the proponents of singularity and certain philosophers with insights from mathematics cognitive neuroscience and philosophy it enables readers to understand and continue this open debate on ai which presents concrete ethical problems for which meaningful answers are still in their infancy

As If Human

2024-05-14

a new approach to the challenges surrounding artificial intelligence that argues for assessing ai actions as if they came from a human being intelligent machines present us every day with urgent ethical challenges is the facial recognition software used by an agency fair when algorithms determine questions of justice finance health and defense are the decisions proportionate equitable transparent and accountable how do we harness this extraordinary technology to empower rather than oppress despite increasingly sophisticated programming artificial intelligences share none of our essential human characteristics sentience physical sensation emotional responsiveness versatile general intelligence however nigel shadbolt and roger hampson argue if we assess ai decisions products and calls for action as if they came from a human being we can avert a disastrous and amoral future the authors go beyond the headlines about rampant robots to apply established moral principles in shaping our ai future their new framework constitutes a how to for building a more ethical machine intelligence

Artificial Intelligence: an Illustrated History

2024-08-06

first released in 2019 artificial intelligence an illustrated history explores the historic origins and current applications of ai in such diverse fields as computing medicine popular culture mythology and philosophy through more than 100 entries award winning author clifford a pickover offers a granular yet accessible glimpse into the world of ai from medieval robots and boolean algebra to facial recognition and artificial neural networks the updated paperback edition brings readers up to speed with coverage of technologies such as dall e and chatgpt and it explores the very real fear that ai will alter the course of humanity forever

Distributed Computing and Artificial Intelligence, 16th International Conference

2019-06-21

this book features the outcomes of the 16th international conference on distributed computing and artificial intelligence 2019 dcai 2019 which is a forum to present applications of innovative techniques for studying and solving complex problems in artificial intelligence and computing the exchange of ideas between scientists and technicians from both the academic and industrial sectors is essential to facilitate the development of systems that can meet the ever increasing demands of today s society this book brings together lessons learned current work and promising future trends associated with distributed computing artificial intelligence and their application to provide efficient solutions to real world problems the book includes 29 high quality and diverse contributions in established and emerging areas of research presented at the symposium organized by the osaka institute of technology hiroshima university university of granada and university of salamanca which was held in Ávila spain from 26th 28th june 2019

Artificial Intelligence in the 21st Century

2022-06-30

this third edition provides a comprehensive colorful up to date and accessible presentation of ai without sacrificing theoretical foundations it includes numerous examples applications full color images and human interest boxes to enhance student interest new chapters on deep learning ai security and ai programming are included advanced topics cover neural nets

genetic algorithms natural language processing planning and complex board games a companion disc is provided with resources applications and figures from the book numerous instructors resources are available upon adoption features includes new chapters on deep learning ai security and ai programming provides a comprehensive colorful up to date and accessible presentation of ai without sacrificing theoretical foundations uses numerous examples applications full color images and human interest boxes to enhance student interest introduces important ai concepts e g robotics use in video games neural nets machine learning and more thorough practical applications features over 300 figures and color images with worked problems detailing ai methods and solutions to selected exercises includes companion files with resources simulations and figures from the book provides numerous instructors resources including solutions to exercises microsoft pp slides etc the companion files are available online by emailing the publisher with proof of purchase at info@merclearning.com

Artificial Intelligence

2017-09-25

artificial intelligence presents a practical guide to ai including agents machine learning and problem solving simple and complex domains

Augmented Reality and Artificial Intelligence

2023-04-29

this book is the first research monograph that explores a new research field and practical applications produced by the combined use of two of the most advanced and powerful technologies available in today's world artificial intelligence ai and augmented reality ar it is written by a team of 50 researchers and practitioners from 16 countries which has enabled a thorough coverage of emerging or previously unexplored subject areas the authors consider practical theoretical and cultural aspects of ai powered ar and ar enriched ai and their usage in a large variety of areas such as education medicine healthcare dentistry pharmacy active lifestyle smart services fashion retail recommender systems and several others augmented reality and artificial intelligence the fusion of advanced technologies is essential reading not only for researchers practitioners and technology developers but also for students both graduates and undergraduates and anyone who is interested in building a comprehensive understanding of the emerging fields of intelligent augmented environments and artificial intelligence presented by augmented reality

Artificial Intelligence

2018-11-26

artificial intelligence has the ability to emulate humans in every field if ai is beyond your knowledge or you want to know something of the subject or even more about artificial intelligence then this book is the best to kick start your journey in artificial intelligence ai is the field of computer science that is focused on designing intelligent computer systems that show a human form of intelligence the latest computers of today represent knowledge information processing systems artificial intelligence makes a person become an adaptive thinker and allows them to apply concepts to real life scenarios by taking advantage of the most interesting ai examples right from a simple chess engine to cognitive chatbots you will learn how to handle machine which you are competing with you will learn some complex reinforcement learning computer vision natural language processing and many others there has been a lot of stories about how self driving cars machines that create their own products and many other different applications of neural networks which make it appear as a complex machine however the tool of the neural network is very simple when you hear something about applications being built to make use of neural networks you are perhaps hearing about the amount of work which happened behind making a neural network perform something that is complex but not advanced neural network what you will learn learn about cognitive nlp chatbots learn about cognitive nlp algorithms discover about ai deep learning and machine learning understand the future ai solutions and adapt fast to them

computer vision internet of things learn how recommender systems work discover more about robotics and artificial intelligence and many more if you want to take your basic understanding of ai to another level and implement some of it practically in designing solutions then this book is the best for you don t wait for anything scroll up and download now

Alchemy and Artificial Intelligence

1965

early successes in programming digital computers to exhibit simple forms of intelligent behavior coupled with the belief that intelligent activities differ only in their degree of complexity have led to the conviction that the information processing underlying any cognitive performance can be formulated in a program and thus simulated on a digital computer attempts to simulate cognitive processes on computers have however run into greater difficulties than anticipated an examination of these difficulties reveals that the attempt to analyze intelligent behavior in digital computer language systematically excludes three fundamental human forms of information processing fringe consciousness essence accident discrimination and ambiguity tolerance moreover there are four distinct types of intelligent activity only two of which do not presuppose these human forms of information processing and can therefore be programmed significant developments in artificial intelligence in the remaining two areas must await computers of an entirely different sort of which the only existing prototype is the little understood human brain author

Artificial Intelligence and Robotics

2017-10-31

this book highlights selected papers presented at the 2nd international symposium on artificial intelligence and robotics 2017 isair2017 held in nakamura centenary memorial hall kitakyushu japan on november 25 26 2017 today the integration of artificial intelligence and robotic technologies has become a topic of growing interest for both researchers and developers from academic fields and industries worldwide and artificial intelligence is poised to become the main approach pursued in next generation robotics research the rapidly growing number of artificial intelligence algorithms and big data solutions has significantly extended the number of potential applications for robotic technologies however it also poses new challenges for the artificial intelligence community the aim of this symposium is to provide a platform for young researchers to share the latest scientific achievements in this field which are discussed in these proceedings

Machine Learning and Artificial Intelligence

2022-12-09

machine learning ml and artificial intelligence ai applications are now so pervasive that they have become indispensable facilitators which improve the quality of all our daily lives this book presents the proceeding of mlis 2022 the 4th international conference on machine learning and intelligent systems held as a virtual event due to the continued uncertainty caused by the covid 19 pandemic and hosted in seoul south korea from 8 to 11 november 2022 the aim of the annual mlis conference is to provide a platform for the exchange of the most recent scientific and technological advances in the field of machine learning and intelligent systems and to strengthen links in the scientific community in related research areas scientific topics covered at mlis 2022 included data mining image processing neural networks natural language processing video processing computational intelligence expert systems human computer interaction deep learning and robotics the book contains the 20 papers selected for acceptance after a rigorous peer review process from the more than 90 full papers submitted selection criteria were based on originality scientific practical significance compelling logical reasoning and language and the 20 papers included here all provide either innovative and original ideas or results of general significance in the field of ml and ai providing an overview of the latest research and developments in machine learning and artificial intelligence the book will be of interest to all those working in the field

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

2008-12

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

Common Sense, the Turing Test, and the Quest for Real AI

2017

what kind of ai the big puzzle knowledge and behavior making it and faking it learning with and without experience book smarts and street smarts the long tail and the limits to training symbols and symbol processing knowledge based systems ai technology

Artificial Intelligence

2020-02-04

if you are searching for resources to start studying artificial intelligence then you are in the right place the author discusses all the things step by step in this short and cheap textbook

for beginners artificial intelligence is one of the most important breakthroughs in today s world experts from various industries study its capabilities and discover new methods of its application if you want to know about ai so this book is the perfect one to start get your copy now book objectivesthis book is about artificial intelligence the author wrote the book with the following objectives to help you understand what artificial intelligence is to help you learn the various approaches to artificial intelligence to help you appreciate the power of artificial intelligence and how it has revolutionized the various sectors in the world to equip you with python programming skills good for artificial intelligence to help you understand the future of artificial intelligence and its expected impact on the various sectors in the world who this book is for this book as written with the following groups of people in mind any individual in need of learning the basics and theories of artificial intelligence any individual who needs to understand the various practical approaches to artificial intelligence anyone who needs to learn how artificial intelligence has impacted the world and how it will impact the world in the future anyone who needs to learn python programming skills good for artificial intelligence requirements the author expects you to have a computer installed with the python interpreter what you will learn basics of ai intelligent systems intelligent agents and environments problem solving through searching machine learning deep learning convolutional networks natural language processing fuzzy logic systems knowledge representation the future of ai the author begins by introducing you to the basics of artificial intelligence the aim is to help you know what artificial intelligence is its goals and its components intelligent systems intelligent agents and their environments have been discussed you will know what intelligent systems agents are and where they are applied the author has also discussed the various challenges intelligent systems agents face when acting on their environments searching is a common technique of solving problems in artificial intelligence the various search algorithms have been discussed machine learning is a very important field in artificial intelligence this has been discussed in detail you will also learn how to implement various machine learning algorithms in python programming language deep learning and artificial neural networks have been explored in detail you will learn how artificial neural networks work the various applications of deep learning have been discussed the process of creating artificial neural networks in the python programming language has been discussed other topics that have been discussed include convolutional neural networks natural language processing knowledge representation and fuzzy logic the author has finally done a prediction to help you know how artificial intelligence is expected to revolutionize the various sectors in the world

Machine Learning and AI in Finance

2021-04-06

the significant amount of information available in any field requires a systematic and analytical approach to select the most critical information and anticipate major events during the last decade the world has witnessed a rapid expansion of applications of artificial intelligence ai and machine learning ml algorithms to an increasingly broad range of financial markets and problems machine learning and ai algorithms facilitate this process understanding modelling and forecasting the behaviour of the most relevant financial variables the main contribution of this book is the presentation of new theoretical and applied ai perspectives to find solutions to unsolved finance questions this volume proposes an optimal model for the volatility smile for modelling high frequency liquidity demand and supply and for the simulation of market microstructure features other new ai developments explored in this book includes building a universal model for a large number of stocks developing predictive models based on the average price of the crowd forecasting the stock price using the attention mechanism in a neural network clustering multivariate time series into different market states proposing a multivariate distance nonlinear causality test and filtering out false investment strategies with an unsupervised learning algorithm machine learning and ai in finance explores the most recent advances in the application of innovative machine learning and artificial intelligence models to predict financial time series to simulate the structure of the financial markets to explore nonlinear causality models to test investment strategies and to price financial options the chapters in this book were originally published as a special issue of the quantitative finance journal

Distributed Computing and Artificial Intelligence, 15th International Conference

2018-07-04

the 15th international symposium on distributed computing and artificial intelligence 2018 dcai 2018 is a forum to present applications of innovative techniques for studying and solving complex problems the exchange of ideas between scientists and technicians from both the academic and industrial sector is essential to facilitate the development of systems

that can meet the ever increasing demands of today's society the present edition brings together past experience current work and promising future trends associated with distributed computing artificial intelligence and their application in order to provide efficient solutions to real problems this symposium is organized by the university of castilla la mancha the osaka institute of technology and the university of salamanca the present edition was held in toledo spain from 20th 22nd june 2018

Operations Research and Artificial Intelligence: The Integration of Problem-Solving Strategies

1990-08-31

the purpose of this book is to introduce and explain research at the boundary between two fields that view problem solving from different perspectives researchers in operations research and artificial intelligence have traditionally remained separate in their activities recently there has been an explosion of work at the border of the two fields as members of both communities seek to leverage their activities and resolve problems that remain intractable to pure operations research or artificial intelligence techniques this book presents representative results from this current flurry of activity and provides insights into promising directions for continued exploration this book should be of special interest to researchers in artificial intelligence and operations research because it exposes a number of applications and techniques which have benefited from the integration of problem solving strategies even researchers working on different applications or with different techniques can benefit from the descriptions contained here because they provide insight into effective methods for combining approaches from the two fields additionally researchers in both communities will find a wealth of pointers to challenging new problems and potential opportunities that exist at the interface between operations research and artificial intelligence in addition to the obvious interest the book should have for members of the operations research and artificial intelligence communities the papers here are also relevant to members of other research communities and development activities that can benefit from improvements to fundamental problem solving approaches

Neural Networks and Artificial Intelligence

2014-05-27

this book constitutes the refereed proceedings of the 8th international conference on neural networks and artificial intelligence icnnai 2014 held in brest belarus in june 2014 the 19 revised full papers presented were carefully reviewed and selected from 27 submissions the papers are organized in topical sections on forest resource management artificial intelligence by neural networks optimization classification fuzzy approach machine intelligence analytical approach mobile robot real world application

Applied Artificial Intelligence in Business

2022-07-19

this book offers students an introduction to the concepts of big data and artificial intelligence ai and their applications in the business world it answers questions such as what are the main concepts of artificial intelligence and big data what applications for artificial intelligence and big data analytics are used in the business field it offers application oriented overviews and cases from different sectors and fields to help readers discover and gain useful insights each chapter features discussion questions and summaries to assist professors in teaching the book supplementary materials will include answers to questions and presentation slides

Smart and Intelligent Systems

2021-12-28

the more we know about smart and intelligent systems and their use the more productive organizations can become and the more quality of life will improve gavriel salvendy president academy of science engineering and medicine of florida university distinguished professor university of central florida robots drones self driving cars and personal assistants are only some of the intelligent and smart systems which are populating our world and changing the way we use technology to carry out our everyday activities bringing about both exciting opportunities for human technology symbiosis as well as compelling design and development challenges through a carefully selected choice of chapters authored by top scientists in the field this book edited by abbas moallem sheds light on fundamental aspects of intelligent and smart systems investigating the role and impact of affective and psychophysiological computing machine learning cybersecurity agent transparency and human agent teaming in the shaping of this new interaction paradigm as well as the human factors involved in their application in critical domains such as health education and manufacturing in the emerging technological landscape constantine stephanidis professor of computer science university of crete distinguished member of foundation for research and technology hellas forth in today s digital world the words smart and intelligent are now used to label devices machinery systems and even environments what is a smart system is smart synonymous with intelligent if not what does an intelligent system mean are all smart systems intelligent this book tries to answer these questions by summarizing the existing research in various areas and providing new research findings smart and intelligent systems the human elements in artificial intelligence robotics and cybersecurity presents new areas of smart and intelligent system design it defines smart and intelligent systems offers a human factors approach discusses networking applications and combines the human element with smart and intelligent systems this book is perfect for engineering students in data sciences and artificial intelligence and practitioners at all levels in the fields of human factors and ergonomics systems engineering computer science software engineering and robotics

Human and Artificial Intelligence

1970

this book provides comprehensive coverage of combined artificial intelligence ai and machine learning ml theory and applications rather than looking at the field from only a theoretical or only a practical perspective this book unifies both perspectives to give holistic understanding the first part introduces the concepts of ai and ml and their origin and current state the second and third parts delve into conceptual and theoretic aspects of static and dynamic ml techniques the forth part describes the practical applications where presented techniques can be applied the fifth part introduces the user to some of the implementation strategies for solving real life ml problems the book is appropriate for students in graduate and upper undergraduate courses in addition to researchers and professionals it makes minimal use of mathematics to make the topics more intuitive and accessible presents a full reference to artificial intelligence and machine learning techniques in theory and application provides a guide to ai and ml with minimal use of mathematics to make the topics more intuitive and accessible connects all ml and ai techniques to applications and introduces implementations

Machine Learning and Artificial Intelligence

2020

in 1950 alan turing the british mathematician cryptographer and computer pioneer looked to the future now that the conceptual and technical parameters for electronic brains had been established what kind of intelligence could be built should machine intelligence mimic the abstract thinking of a chess player or should it be more like the developing mind of a child should an intelligent agent only think or should it also learn feel and grow affect and artificial intelligence is the first in depth analysis of affect and intersubjectivity in the computational sciences elizabeth wilson makes use of archival and unpublished material from the early years of ai 1945 70 until the present to show that early researchers were more

engaged with questions of emotion than many commentators have assumed she documents how affectivity was managed in the canonical works of walter pitts in the 1940s and turing in the 1950s in projects from the 1960s that injected artificial agents into psychotherapeutic encounters in chess playing machines from the 1940s to the present and in the kismet sociable robotics project at mit in the 1990s elizabeth a wilson is a professor in the department of women s studies at emory university she is the author of neural geographies feminism and the microstructure of cognition and psychosomatic feminism and the neurological body original and beautifully written lucy suchman lancaster university an elegantly written thoroughly engaging and absolutely compelling history of the role of emotions and affect in thought about and design of artificial intelligence robert mitchell duke university in this fresh and provocative contribution to the exploding field of affect studies elizabeth wilson argues convincingly and in a spirit of welcome generosity that from its very beginnings the theory and practice of artificial intelligence has been decisively marked by feelings surprise curiosity delight shame and contempt as well as computational logic she suggests with wonderful wit and a fine intelligence that interiority is conjugated by positive and passionate affects of attachment as well as cognitive circuits among humans and machines her own attachment to the archive of ai is palpable and her focus on the biography of key figures in its early history is immensely refreshing kathleen woodward author of statistical panic cultural politics and poetics of the emotions

Affect and Artificial Intelligence

2010

in the near future we will see an increase in the development and use of all sorts of ai applications some of the more promising areas will be finance healthcare iot manufacturing journalism and cybersecurity many of these applications generate a great amount of complex information natural language understanding is one of the most clear examples traditional ways of visualizing complex information namely linear text web pages and hyperlink based applications have serious productivity problems users need a lot of time to visualize the information and have problems seeing the whole picture of the results mind mapping is probably the only way of reducing the problems inherent in these traditional ways of visualizing complex information most people have no clear idea about the advantages of mind mapping or the problems created by the traditional ways of visualizing complex information the goal of mind mapping and artificial intelligence is to provide readers with an introduction to mind mapping and artificial intelligence to the problems of using traditional ways of visualizing complex information and as an introduction to mind mapping automation and its integration into artificial intelligence applications such as nlu and others as more applications of artificial intelligence are developed in the near future the need for the improvement of the visualization of the information generated will increase exponentially information overload will soon also happen in ai applications this will diminish the advantages of using ai author José maria guerrero is a long time expert in mind mapping and visualization techniques in this book he also introduces readers to mindmanager mind mapping software which can considerably reduce the problems associated with the interpretation of complex information generated by artificial intelligence software provides coverage of the fundamentals of mind mapping and visualization applied to artificial intelligence applications includes coverage of the scientific bases for mind mapping for the visualization of complex information introduces mindmanager software for mind mapping introduces the author s mindmanager toolkit for the readers to use in development of new mind mapping applications includes case studies and real world applications of mindmanager for ai applications including examples using ibm watson nlu

Mind Mapping and Artificial Intelligence

2022-10-22

the intelligence exhibited by machines is known as artificial intelligence ai the long term objective of research in ai is to mimic human intelligence artificial intelligence can be classified into artificial general intelligence and artificial biological intelligence artificial general intelligence refers to the ability of any intelligent agent to mimic an intellectual task which humans can perform artificial biological intelligence aims to understand the natural intelligence of humans some of the recent advances in artificial intelligence have been driven by progress in data processing power of modern machines the use of computational intelligence statistical methods and traditional symbolic ai some of the tools used include artificial neural networks and mathematical optimization this book is a valuable compilation of topics ranging from the basic to the most complex advancements in the field of artificial

intelligence the topics covered herein deal with advanced algorithms as well as the concepts tools and techniques that are furthering this discipline researchers and students in this field will be assisted by this book

Artificial Intelligence: Concepts, Tools and Techniques

2021-11-16

a day does not go by without a news article reporting some amazing breakthrough in artificial intelligence ai many philosophers futurists and ai researchers have conjectured that human level ai will be developed in the next 20 to 200 years if these predictions are correct it raises new and sinister issues related to our future in the age of

Artificial Superintelligence

2015-06-17

machine learning and artificial intelligence in marketing and sales explores the ideas and the statistical and mathematical concepts behind artificial intelligence ai and machine learning models as applied to marketing and sales without getting lost in the details of mathematical derivations and computer programming

Machine Learning and Artificial Intelligence in Marketing and Sales

2021-03-10

artificial intelligence touches nearly every part of your day while you may initially assume that technology such as smart speakers and digital assistants are the extent of it ai has in fact rapidly become a general purpose technology reverberating across industries including transportation healthcare financial services and many more in our modern era an understanding of ai and its possibilities for your organization is essential for growth and success artificial intelligence basics has arrived to equip you with a fundamental timely grasp of ai and its impact author tom taulli provides an engaging non technical introduction to important concepts such as machine learning deep learning natural language processing nlp robotics and more in addition to guiding you through real world case studies and practical implementation steps taulli uses his expertise to expand on the bigger questions that surround ai these include societal trends ethics and future impact ai will have on world governments company structures and daily life google amazon facebook and similar tech giants are far from the only organizations on which artificial intelligence has had and will continue to have an incredibly significant result ai is the present and the future of your business as well as your home life strengthening your prowess on the subject will prove invaluable to your preparation for the future of tech and artificial intelligence basics is the indispensable guide that you ve been seeking what you will learn study the core principles for ai approaches such as machine learning deep learning and nlp natural language processing discover the best practices to successfully implement ai by examining case studies including uber facebook waymo uipath and stitch fix understand how ai capabilities for robots can improve business deploy chatbots and robotic processing automation rpa to save costs and improve customer service avoid costly gotchas recognize ethical concerns and other risk factors of using artificial intelligence examine the secular trends and how they may impact your business who this book is for readers without a technical background such as managers looking to understand ai to evaluate solutions

Artificial Intelligence Basics

2019-08-02

artificial intelligence ai when incorporated with machine learning and deep learning algorithms has a wide variety of applications today this book focuses on the implementation of various elementary and advanced approaches in ai that can be used in various domains to solve real time decision making problems the book focuses on concepts and techniques used to run tasks in an automated manner it discusses computational intelligence in the detection and diagnosis of clinical and biomedical images covers the automation of a system through machine learning and deep learning approaches presents data analytics and mining for decision support applications and includes case based reasoning natural language processing computer vision and ai approaches in real time applications academic scientists researchers and students in the various domains of computer science engineering electronics and communication engineering and information technology as well as industrial engineers biomedical engineers and management will find this book useful by the end of this book you will understand the fundamentals of ai various case studies will develop your adaptive thinking to solve real time ai problems features includes ai based decision making approaches discusses computational intelligence in the detection and diagnosis of clinical and biomedical images covers automation of systems through machine learning and deep learning approaches and its implications to the real world presents data analytics and mining for decision support applications offers case based reasoning

Artificial Intelligence Trends for Data Analytics Using Machine Learning and Deep Learning Approaches

2020-10-08

machine learning algorithms and artificial intelligence influence many aspects of life today this report identifies some of their shortcomings and associated policy risks and examines some approaches for combating these problems

An Intelligence in Our Image

2017-04-05

a fascinating richly illustrated journey through the history of artificial intelligence and an honest assessment of our future alongside it artificial intelligence has long been a mainstay of science fiction and increasingly it feels as if ai is entering our everyday lives with virtual personal assistants such as apple s siri now ubiquitous and self driving cars almost upon us but what do we actually mean when we talk about artificial intelligence in this comprehensive beautifully illustrated account ai expert yorick wilks traces the history of artificial intelligence back to its origins examining not only how it works and why it was designed but also its controversies and achievements along the way wilks also considers our future with ai assessing whether these technologies will benefit humanity or merely menace our way of life are the sentient machines of 2001 a space odyssey or the matrix plausible or will real world ai look and feel very different what has ai done for us so far what do we want it to do and what technologies could it yield in the future entertaining enlightening and keenly argued artificial intelligence modern magic or dangerous future is the essential guide to the ai debate

Creative Applications of Artificial Intelligence in Education

1988

Expert Systems and Artificial Intelligence

2023-04-25

Artificial Intelligence

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