A I ARTIFICIAL INTELLIGENCE

PHILIP L. FRANA, MICHAEL J. KLEIN

RTIFICIAL INTELLIGENCE JERRY KAPLAN, 2016 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.

Retificial Intelligence By Example Denis Rothman, 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 AT APPLICATIONS ON YOUR OWN. BY THE END OF THIS BOOK, WILL HAVE UNDERSTOOD THE FUNDAMENTALS OF A 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. RATIFICIAL INTELLIGENCE B. J. COPELAND, 2019-09-24 ARTIFICIAL INTELLIGENCE (AI), THE ABILITY OF A DIGITAL COMPUTER OR COMPUTER-CONTROLLED ROBOT TO PERFORM TASKS COMMONLY ASSOCIATED WITH INTELLIGENT BEINGS. THE TERM IS FREQUENTLY APPLIED TO THE PROJECT OF DEVELOPING SYSTEMS ENDOWED WITH THE INTELLECTUAL PROCESSES CHARACTERISTIC OF HUMANS, SUCH AS THE ABILITY TO REASON, DISCOVER MEANING, GENERALIZE, OR LEARN FROM PAST EXPERIENCE. SINCE THE DEVELOPMENT OF THE DIGITAL COMPUTER IN THE 1940S, IT HAS BEEN DEMONSTRATED THAT COMPUTERS CAN BE PROGRAMMED TO CARRY OUT VERY COMPLEX TASKS-AS, FOR EXAMPLE, DISCOVERING PROOFS FOR MATHEMATICAL THEOREMS OR PLAYING CHESS-WITH GREAT PROFICIENCY. STILL, DESPITE CONTINUING ADVANCES IN COMPUTER PROCESSING SPEED AND MEMORY CAPACITY, THERE ARE AS YET NO PROGRAMS THAT CAN MATCH HUMAN FLEXIBILITY OVER WIDER DOMAINS OR IN TASKS REQUIRING MUCH EVERYDAY KNOWLEDGE. ON THE OTHER HAND, SOME PROGRAMS HAVE ATTAINED THE PERFORMANCE LEVELS OF HUMAN EXPERTS AND PROFESSIONALS IN PERFORMING CERTAIN SPECIFIC TASKS, SO THAT ARTIFICIAL INTELLIGENCE IN THIS LIMITED SENSE IS FOUND IN APPLICATIONS AS DIVERSE AS MEDICAL DIAGNOSIS, COMPUTER SEARCH ENGINES, AND VOICE OR HANDWRITING RECOGNITION. WHAT IS INTELLIGENCE? ALL BUT THE SIMPLEST HUMAN BEHAVIOUR IS ASCRIBED TO INTELLIGENCE, WHILE EVEN THE MOST COMPLICATED INSECT BEHAVIOUR IS NEVER TAKEN AS AN INDICATION OF INTELLIGENCE. WHAT IS THE DIFFERENCE? CONSIDER THE BEHAVIOUR OF THE DIGGER WASP, SPHEX ICHNEUMONEUS. WHEN THE FEMALE WASP RETURNS TO HER BURROW WITH FOOD, SHE FIRST DEPOSITS IT ON THE THRESHOLD, CHECKS FOR INTRUDERS INSIDE HER BURROW, AND ONLY THEN,

IF THE COAST IS CLEAR, CARRIES HER FOOD INSIDE. THE REAL NATURE OF THE WASP'S INSTINCTUAL BEHAVIOUR IS REVEALED IF THE FOOD IS MOVED A FEW INCHES AWAY FROM THE ENTRANCE TO HER BURROW WHILE SHE IS INSIDE: ON EMERGING, SHE WILL REPEAT THE WHOLE PROCEDURE AS OFTEN AS THE FOOD IS DISPLACED. INTELLIGENCE-CONSPICUOUSLY ABSENT IN THE CASE OF SPHEX-MUST INCLUDE THE ABILITY TO ADAPT TO NEW CIRCUMSTANCES. PSYCHOLOGISTS GENERALLY DO NOT CHARACTERIZE HUMAN INTELLIGENCE BY JUST ONE TRAIT BUT BY THE COMBINATION OF MANY DIVERSE ABILITIES. RESEARCH IN AI HAS FOCUSED CHIEFLY ON THE FOLLOWING COMPONENTS OF INTELLIGENCE: LEARNING, REASONING, PROBLEM SOLVING, PERCEPTION, AND USING LANGUAGE. ARTIFICIAL INTELLIGENCE HISTORYTHE TERM ARTIFICIAL INTELLIGENCE WAS COINED IN 1956, BUT AI HAS BECOME MORE POPULAR TODAY THANKS TO INCREASED DATA VOLUMES, ADVANCED ALGORITHMS, AND IMPROVEMENTS IN COMPUTING POWER AND STORAGE. EARLY AI RESEARCH IN THE 1950S EXPLORED TOPICS LIKE PROBLEM SOLVING AND SYMBOLIC METHODS. IN THE 1960s, THE US DEPARTMENT OF DEFENSE TOOK INTEREST IN THIS TYPE OF WORK AND BEGAN TRAINING COMPUTERS TO MIMIC BASIC HUMAN REASONING. FOR EXAMPLE, THE DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA) COMPLETED STREET MAPPING PROJECTS IN THE 1970S. AND DARPA PRODUCED INTELLIGENT PERSONAL ASSISTANTS IN 2003, LONG BEFORE SIRI, ALEXA OR CORTANA WERE HOUSEHOLD NAMES. THIS EARLY WORK PAVED THE WAY FOR THE AUTOMATION AND FORMAL REASONING THAT WE SEE IN COMPUTERS TODAY, INCLUDING DECISION SUPPORT SYSTEMS AND SMART SEARCH SYSTEMS THAT CAN BE DESIGNED TO COMPLEMENT AND AUGMENT HUMAN ABILITIES. WHILE HOLLYWOOD MOVIES AND SCIENCE FICTION NOVELS DEPICT AI AS HUMAN-LIKE ROBOTS THAT TAKE OVER THE WORLD, THE CURRENT EVOLUTION OF AI TECHNOLOGIES ISN'T THAT SCARY - OR QUITE THAT SMART. INSTEAD, AI HAS EVOLVED TO PROVIDE MANY SPECIFIC BENEFITS IN EVERY INDUSTRY. KEEP READING FOR MODERN EXAMPLES OF ARTIFICIAL INTELLIGENCE IN HEALTH CARE, RETAIL AND MORE. RATIFICIAL INTELLIGENCE JOOST NICO KOK, 2009-12-20 ARTIFICIAL INTELLIGENCE IS A COMPONENT OF ENCYCLOPEDIA OF TECHNOLOGY, INFORMATION, AND SYSTEMS MANAGEMENT RESOURCES IN THE GLOBAL ENCYCLOPEDIA OF LIFE SUPPORT SYSTEMS (EOLSS), WHICH IS AN INTEGRATED COMPENDIUM OF TWENTY ENCYCLOPEDIAS. THE THEME ON ARTIFICIAL INTELLIGENCE PROVIDES THE ESSENTIAL ASPECTS AND FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE: DEFINITION, TRENDS, TECHNIQUES, AND CASES; LOGIC IN ARTIFICIAL INTELLIGENCE (AI); COMPUTATIONAL INTELLIGENCE; KNOWLEDGE BASED SYSTEM DEVELOPMENT TOOLS. IT IS AIMED AT THE FOLLOWING FIVE MAJOR TARGET AUDIENCES: UNIVERSITY AND COLLEGE STUDENTS, EDUCATORS, PROFESSIONAL PRACTITIONERS, RESEARCH PERSONNEL AND POLICY ANALYSTS, MANAGERS, AND DECISION MAKERS.

ENCYCLOPEDIA OF ARTIFICIAL INTELLIGENCE PHILIP L. FRANA, MICHAEL J. KLEIN, 2021-04-07 THIS AUTHORITATIVE REFERENCE WORK WILL PROVIDE READERS WITH A COMPLETE OVERVIEW OF ARTIFICIAL INTELLIGENCE (AI), INCLUDING ITS HISTORIC DEVELOPMENT AND CURRENT STATUS, EXISTING AND PROJECTED AI APPLICATIONS, AND PRESENT AND POTENTIAL FUTURE IMPACT ON THE UNITED STATES AND THE WORLD. SOME PEOPLE BELIEVE THAT ARTIFICIAL INTELLIGENCE (AI) WILL REVOLUTIONIZE MODERN LIFE IN WAYS THAT IMPROVE HUMAN EXISTENCE. OTHERS SAY THAT THE PROMISE OF AI IS OVERBLOWN. STILL OTHERS CONTEND THAT AI APPLICATIONS COULD POSE A GRAVE THREAT TO THE ECONOMIC SECURITY OF MILLIONS OF PEOPLE BY TAKING THEIR JOBS AND OTHERWISE RENDERING THEM OBSOLETE-OR, EVEN WORSE, THAT AI COULD ACTUALLY SPELL THE END OF THE HUMAN RACE. THIS VOLUME WILL HELP USERS UNDERSTAND THE REASONS AI DEVELOPMENT HAS BOTH SPIRITED DEFENDERS AND ALARMED CRITICS; EXPLAIN THEORIES AND INNOVATIONS LIKE MOORE'S LAW, MINDCLONING, AND TECHNOLOGICAL SINGULARITY THAT DRIVE AI RESEARCH AND DEBATE; AND GIVE READERS THE INFORMATION THEY NEED TO MAKE THEIR OWN INFORMED JUDGMENT ABOUT THE PROMISE AND PERIL OF THIS TECHNOLOGY. ALL OF THIS COVERAGE IS PRESENTED USING LANGUAGE AND TERMINOLOGY ACCESSIBLE TO A LAY AUDIENCE.

The Quest for Artificial Intelligence Nils J. Nilsson, 2009-10-30 Artificial intelligence (AI) is a field within computer science that is attempting to build enhanced intelligence into computer systems. This book traces the history of the subject, from the early dreams of eighteenth-century (and earlier) pioneers to the more successful work of today's AI engineers. AI is becoming more and more a part of everyone's life. The technology is already embedded in face-recognizing cameras, speech-recognition software, Internet search engines, and health-care robots, among other applications. The book's many diagrams and easy-to-understand descriptions of AI programs will help the casual reader gain an understanding of how these and other AI systems actually work. Its thorough (but unobtrusive) end-of-chapter notes containing citations to important source materials will be of great use to AI scholars and researchers. This book promises to be the definitive history of a field that has captivated the imaginations of scientists, philosophers, and writers for centuries.
 Muman Compatible Stuart Russell, 2019-10-08 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 A 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. RATIFICIAL INTELLIGENCE MELANIE MITCHELL, 2019-10-15 MELANIE MITCHELL SEPARATES SCIENCE FACT FROM SCIENCE FICTION IN THIS SWEEPING EXAMINATION OF THE CURRENT STATE OF AI AND HOW IT IS REMAKING OUR WORLD NO RECENT SCIENTIFIC ENTERPRISE HAS PROVED AS ALLURING, TERRIFYING, AND FILLED WITH EXTRAVAGANT PROMISE AND FRUSTRATING SETBACKS AS ARTIFICIAL INTELLIGENCE. THE AWARD-WINNING AUTHOR MELANIE MITCHELL, A LEADING COMPUTER SCIENTIST, NOW REVEALS AI'S TURBULENT HISTORY AND THE RECENT SPATE OF APPARENT SUCCESSES, GRAND HOPES, AND EMERGING FEARS SURROUNDING IT. IN ARTIFICIAL INTELLIGENCE, MITCHELL TURNS TO THE MOST URGENT QUESTIONS CONCERNING AI TODAY: How intelligent—really—are the best AI programs? How do they work? What can they actually do, and WHEN DO THEY FAIL? HOW HUMANLIKE DO WE EXPECT THEM TO BECOME, AND HOW SOON DO WE NEED TO WORRY ABOUT THEM SURPASSING US? ALONG THE WAY, SHE INTRODUCES THE DOMINANT MODELS OF MODERN AI AND MACHINE LEARNING, DESCRIBING CUTTING-EDGE AI PROGRAMS, THEIR HUMAN INVENTORS, AND THE HISTORICAL LINES OF THOUGHT UNDERPINNING RECENT ACHIEVEMENTS. SHE MEETS WITH FELLOW EXPERTS SUCH AS DOUGLAS HOFSTADTER, THE COGNITIVE SCIENTIST AND PULITZER PRIZE-WINNING AUTHOR OF THE MODERN CLASSIC G DEL, 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.

P THE AI-POWERED ENTERPRISE SETH EARLEY, 2020-04-28 LEARN HOW TO DEVELOP AND EMPLOY AN ONTOLOGY, THE SECRET WEAPON FOR SUCCESSFULLY USING ARTIFICIAL INTELLIGENCE TO CREATE A POWERFUL COMPETITIVE ADVANTAGE IN YOUR BUSINESS. THE AI-POWERED ENTERPRISE EXAMINES TWO FUNDAMENTAL QUESTIONS: FIRST, HOW WILL THE FUTURE BE DIFFERENT AS A RESULT OF ARTIFICIAL INTELLIGENCE? AND SECOND, WHAT MUST COMPANIES DO TO STAKE THEIR CLAIM ON THAT FUTURE? WHEN THE WEB CAME ALONG IN THE MID-90S, IT TRANSFORMED THE BEHAVIOR OF CUSTOMERS AND REMADE WHOLE INDUSTRIES. NOW, AS PART OF ITS PROMISE TO BRING REVOLUTIONARY CHANGE IN UNTOLD WAYS TO HUMAN ACTIVITY, ARTIFICIAL INTELLIGENCE—AI—IS ABOUT TO CREATE ANOTHER COMPLETE TRANSFORMATION IN HOW COMPANIES CREATE AND DELIVER VALUE TO CUSTOMERS. BUT DESPITE THE BILLIONS SPENT SO FAR ON BOTS AND OTHER TOOLS, AI CONTINUES TO STUMBLE. WHY CAN'T IT MAGICALLY USE ALL THE DATA ORGANIZATIONS GENERATE TO MAKE THEM RUN FASTER AND BETTER? BECAUSE SOMETHING IS MISSING. AI WORKS ONLY WHEN IT UNDERSTANDS THE SOUL OF THE BUSINESS. AN ONTOLOGY IS A HOLISTIC DIGITAL MODEL OF EVERY PIECE OF INFORMATION THAT MATTERS TO THE BUSINESS, FROM PROCESSES TO PRODUCTS TO PEOPLE, AND IT'S WHAT MAKES THE DIFFERENCE BETWEEN THE PROMISE OF AI AND DELIVERING ON THAT PROMISE. BUSINESS LEADERS WHO WANT TO CATCH THE AI WAVE-RATHER THAN BE CRUSHED BY IT-NEED TO READ THE AI-POWERED ENTERPRISE. THE BOOK IS THE FIRST TO COMBINE A SOPHISTICATED EXPLANATION OF HOW AI WORKS WITH A PRACTICAL APPROACH TO APPLYING AI TO THE PROBLEMS OF BUSINESS, FROM CUSTOMER EXPERIENCE TO BUSINESS OPERATIONS TO PRODUCT DEVELOPMENT.

EBOOTING AI GARY MARCUS, ERNEST DAVIS, 2019-09-10 Two leaders in the field offer a compelling analysis of the current state of the art and reveal the steps we must take to achieve a truly robust artificial intelligence. Despite the hype surrounding AI, creating an intelligence that rivals or exceeds human levels is far more complicated than we have been led to believe. Professors Gary Marcus and Ernest Davis have spent their CAREERS AT THE FOREFRONT OF AI RESEARCH AND HAVE WITNESSED SOME OF THE GREATEST MILESTONES IN THE FIELD, BUT THEY ARGUE THAT A COMPUTER BEATING A HUMAN IN JEOPARDY! DOES NOT SIGNAL THAT WE ARE ON THE DOORSTEP OF FULLY AUTONOMOUS CARS OR SUPERINTELLIGENT MACHINES. THE ACHIEVEMENTS IN THE FIELD THUS FAR HAVE OCCURRED IN CLOSED SYSTEMS WITH FIXED SETS OF RULES, AND THESE APPROACHES ARE TOO NARROW TO ACHIEVE GENUINE INTELLIGENCE. THE REAL WORLD, IN CONTRAST, IS WILDLY COMPLEX AND OPEN-ENDED. HOW CAN WE BRIDGE THIS GAP? WHAT WILL THE CONSEQUENCES BE WHEN WE DO? TAKING INSPIRATION FROM THE HUMAN MIND, MARCUS AND DAVIS EXPLAIN WHAT WE NEED TO ADVANCE AI TO THE NEXT LEVEL, AND SUGGEST THAT IF WE ARE WISE ALONG THE WAY, WE WON'T NEED TO WORRY ABOUT A FUTURE OF MACHINE OVERLORDS. IF WE FOCUS ON ENDOWING MACHINES WITH COMMON SENSE AND DEEP UNDERSTANDING, RATHER THAN SIMPLY FOCUSING ON STATISTICAL ANALYSIS AND GATHERINE EVER LARGER COLLECTIONS OF DATA, WE WILL BE ABLE TO CREATE AN AI WE CAN TRUST—IN OUR HOMES, OUR CARS, AND OUR DOCTORS' OFFICES. REBOOTING AI PROVIDES A LUCID, CLEAR-EYED ASSESSMENT OF THE CURRENT SCIENCE AND OFFERS AN INSPIRING VISION OF HOW A NEW GENERATION OF AI CAN MAKE OUR LIVES BETTER.

Scary Smart Mo Gawdat, 2022-12-08 A Sunday Times Business Book of the Year. Scary Smart will teach you how to navigate the scary and inevitable intrusion of Artificial Intelligence, with an accessible blueprint for creating a harmonious future alongside AI. From Mo Gawdat, the former Chief Business Officer at Google [X] and bestselling author of Solve for Happy. Technology is putting our humanity at risk to an unprecedented degree. This book is not for engineers who write the code or the policy makers who claim they can regulate it. This is a book for you. Because, believe it or not, you are the only one that can fix it. - Mo Gawdat Artificial intelligence is smarter than humans. It can process information at lightning speed and remain focused on specific tasks without distraction. AI can see into the future, predict outcomes and even use sensors to see around physical and virtual corners. So why does AI frequently get it so wrong and cause harm? The answer is us: the human beings who write the code and teach AI to mimic our behaviour. Scary Smart explains how to fix the current trajectory now, to make sure that the AI of the future can preserve our species. This book offers a blueprint, pointing the way to what we can do to safeguard ourselves, those we love, and the planet itself. 'No one ever regrets reading anything Mo Gawdat has written.' - Emma Gannon, author of The Multi-Hyphen Method and host of the podcast Ctrl ALt Delete P THE MYTH OF ARTIFICIAL INTELLIGENCE ERIK J. LARSON, 2021-04-06 "EXPOSES THE VAST GAP BETWEEN THE ACTUAL SCIENCE UNDERLYING AT AND THE DRAMATIC CLAIMS BEING MADE FOR IT." - JOHN HORGAN "IF YOU WANT TO KNOW ABOUT AT, 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 A 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

PI FOR EVERYONE: BENEFITTING FROM AND BUILDING TRUST IN THE TECHNOLOGY JIRO KOKURYO, TOBY WALSH, CATHARINA MARACKE, 2020-01-28 IF GOVERNED ADEQUATELY, AI (ARTIFICIAL INTELLIGENCE) HAS THE POTENTIAL TO BENEFIT HUMANKIND ENORMOUSLY. HOWEVER, IF MISMANAGED, IT ALSO HAS THE POTENTIAL TO HARM HUMANITY CATASTROPHICALLY. THE TITLE OF THIS BOOK REFLECTS THE BELIEF THAT ACCESS TO THE BENEFITS OF AI, AWARENESS ABOUT THE NATURE OF THE TECHNOLOGY, GOVERNANCE OF THE TECHNOLOGY AND ITS DEVELOPMENT PROCESS WITH A FOCUS ON RESPONSIBLE DEVELOPMENT, SHOULD BE TRANSPARENT, OPEN, UNDERSTOOD BY AND ACCESSIBLE TO ALL PEOPLE REGARDLESS OF THEIR GEOGRAPHIC, GENERATIONAL, ECONOMIC, CULTURAL AND/OR OTHER SOCIAL BACKGROUND. THE BOOK IS THE RESULT OF A DISCUSSION SERIES ORGANIZED BY THE ASSOCIATION OF PACIFIC RIM UNIVERSITIES (APRU) WHICH WAS FINANCIALLY SUPPORTED BY GOOGLE.
PIRINCIPLES OF ARTIFICIAL INTELLIGENCE NILS J. NILSSON, 1982-05-01 PREVIOUS TREATMENTS OF ARTIFICIAL

Intelligence (AI) divide the subject into its major areas of application, namely, natural language processing, automatic programming, robotics, machine vision, automatic theorem proving, intelligent data retrieval systems, etc. The major difficulty with this approach is that these application areas are now so extensive, that each could, at best, be only superficially treated in a book of this length. Instead, I have attempted here to describe fundamental AI ideas that underlie many of these applications. My organization of these ideas is not, then, based on the subject matter of their application, but is, instead, based on general computational concepts involving the kinds of data structures used, the types of operations performed on these data struct tures, and the properties of con'trol strategies used by AI systems. I stress, in particular, the important roles played in AI by generalized production systems and the predicate calculus. The notes on which the book is based evolved in courses and seminars at Stanford University and at the University of Massachusetts at Amherst. Although certain topics treated in my previous book, Problem solving Methods in Artificial Intelligence, are covered here as well, this book contains many additional topics such as rule-based systems, robot problem-solving systems, and structured-object representations.

Developing systems that are genuinely intelligence and judgment, which have been honed over millennia. Recent advances in Almay be of epochal significance, but human intelligence is of a different order than even the most powerful calculative ability enabled by new computational capacities. Smith calls this Al ability "reckoning," and argues that it does not lead to full human judgment — dispassionate, deliberative thought grounded in ethical commitment and responsible action. Taking judgment as the ultimate goal of intelligence, Smith examines the history of Al from its first-wave origins ("good old-fashioned Al," or GOFAI) to such celebrated secondwave approaches as machine learning, paying particular attention to recent advances that have led to excitement, anxiety, and debate. He considers each Al technology's underlying assumptions, the conceptions of intelligence targeted at each stage, and the successes achieved so far. Smith unpacks the notion of intelligence ITSELF—WHAT SORT HUMANS HAVE, AND WHAT SORT AI AIMS AT. SMITH WORRIES THAT, IMPRESSED BY AI'S RECKONING PROWESS, WE WILL SHIFT OUR EXPECTATIONS OF HUMAN INTELLIGENCE. WHAT WE SHOULD DO, HE ARGUES, IS LEARN TO USE AI FOR THE RECKONING TASKS AT WHICH IT EXCELS WHILE WE STRENGTHEN OUR COMMITMENT TO JUDGMENT, ETHICS, AND THE WORLD.

Retificial Intelligence Illuminated Ben Coppin, 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.

BEYOND ARTIFICIAL INTELLIGENCE JAN ROMPORTL, EVA ZACKOVA, JOZEF KELEMEN, 2014-08-11 THIS BOOK IS AN EDITED COLLECTION OF CHAPTERS BASED ON THE PAPERS PRESENTED AT THE CONFERENCE "BEYOND AI: ARTIFICIAL DREAMS" HELD IN PILSEN IN NOVEMBER 2012. THE AIM OF THE CONFERENCE WAS TO QUESTION DEEP-ROOTED IDEAS OF ARTIFICIAL INTELLIGENCE AND CAST CRITICAL REFLECTION ON METHODS STANDING AT ITS FOUNDATIONS. ARTIFICIAL DREAMS EPITOMIZE OUR CONTROVERSIAL QUEST FOR NON-BIOLOGICAL INTELLIGENCE AND THEREFORE THE CONTRIBUTORS OF THIS BOOK TRIED TO FULLY EXPLOIT SUCH A CONTROVERSY IN THEIR RESPECTIVE CHAPTERS, WHICH RESULTED IN AN INTERDISCIPLINARY DIALOGUE BETWEEN EXPERTS FROM ENGINEERING, NATURAL SCIENCES AND HUMANITIES. WHILE PURSUING THE ARTIFICIAL DREAMS, IT HAS BECOME CLEAR THAT IT IS STILL MORE AND MORE DIFFICULT TO DRAW A CLEAR DIVIDE BETWEEN HUMAN AND MACHINE. AND THEREFORE THIS BOOK TRIES TO PORTRAIT SUCH AN IMAGE OF WHAT LIES BEYOND ARTIFICIAL INTELLIGENCE: WE CAN SEE THE DISAPPEARING HUMAN-MACHINE DIVIDE, A VERY IMPORTANT PHENOMENON OF NOWADAYS TECHNOLOGICAL SOCIETY, THE PHENOMENON WHICH IS OFTEN UNCRITICALLY PRAISED, OR HYPOCRITICALLY CONDEMNED. AND SO THIS PHENOMENON FOUND ITS PLACE IN THE SUBTITLE OF THE CHAPTER OF KEVIN WARWICK, ONE OF THE KEYNOTE SPEAKERS AT "BEYOND AL: ARTIFICIAL DREAMS".

P Artificial Intelligence Christopher Thornton, 2007 This Innovative Book On Artificial Intelligence (AI) Uses

The UNIFYING THREAD OF SEARCH TO BRING TOGETHER THE MAJOR APPLICATION AND MODELING TECHNIQUES THAT USE SYMBOLIC AI. EACH OF THE 11 CHAPTERS IS DIVIDED INTO 3 SECTIONS:# SECTION WHICH INTRODUCES THE TECHNIQUES# SECTION WHICH DEVELOPS A LOW-LEVEL (POP-11) IMPLEMENTATION# SECTION WHICH DEVELOPS A HIGH-LEVEL (PROLOG) IMPLEMENTATIONCOMPREHENSIVE YET PRACTICAL, THIS BOOK WILL BE OF GREAT VALUE TO THOSE EXPERIENCED IN AI, AS WELL AS TO STUDENTS WITH SOME PROGRAMMING BACKGROUND AND ACADEMICS AND PROFESSIONALS LOOKING FOR A PRECISE DISCUSSION OF AI THROUGH SEARCH. THIS SPECIAL LOW-PRICED EDITION IS FOR SALE IN INDIA, BANGLADESH, BHUTAN, MALDIVES, NEPAL, MYANMAR, PAKISTAN AND SRI LANKA ONLY.

Second authority in AI for Cybersecurity, expertly navigates the vast landscape of artificial intelligence, blending theoretical foundations with practical applications. Whether you're a beginner eager to grasp the basics or a seasoned professional looking to refine your skills, Mastering AI is your roadmap to successfully navigating the fascinating world of AI.

RTIFICIAL INTELLIGENCE BLAY WHITBY, 2003 THIS JARGON-FREE GUIDE INTRODUCES THE FUTURISTIC WORLD OF ARTIFICIAL INTELLIGENCE, THE SCIENCE OF CREATING MACHINES THAT CAN THINK FOR THEMSELVES.

EVENTUALLY, YOU WILL DEFINITELY DISCOVER A NEW EXPERIENCE AND REALIZATION BY SPENDING MORE CASH. STILL WHEN? ATTAIN YOU RESIGN YOURSELF TO THAT YOU REQUIRE TO ACQUIRE THOSE ALL NEEDS NEXT HAVING SIGNIFICANTLY CASH? WHY DONT YOU TRY TO ACQUIRE SOMETHING BASIC IN THE BEGINNING? THATS SOMETHING THAT WILL LEAD YOU TO UNDERSTAND EVEN MORE JUST ABOUT THE GLOBE, EXPERIENCE, SOME PLACES, WHEN HISTORY, AMUSEMENT, AND A LOT MORE?

IT IS YOUR CATEGORICALLY OWN ERA TO TAKE ACTION REVIEWING HABIT. IN THE MIDST OF GUIDES YOU COULD ENJOY NOW IS A I ARTIFICIAL INTELLIGENCE BELOW.

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A I ARTIFICIAL INTELLIGENCE INTRODUCTION

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EXTRACTING THE INFORMATION THEY NEED. FURTHERMORE, THE AVAILABILITY OF FREE PDF BOOKS AND MANUALS FOSTERS A CULTURE OF CONTINUOUS LEARNING. BY REMOVING FINANCIAL BARRIERS, MORE PEOPLE CAN ACCESS EDUCATIONAL RESOURCES AND PURSUE LIFELONG LEARNING, CONTRIBUTING TO PERSONAL GROWTH AND PROFESSIONAL DEVELOPMENT. THIS DEMOCRATIZATION OF KNOWLEDGE PROMOTES INTELLECTUAL CURIOSITY AND EMPOWERS INDIVIDUALS TO BECOME LIFELONG LEARNERS, PROMOTING PROGRESS AND INNOVATION IN VARIOUS FIELDS. IT IS WORTH NOTING THAT WHILE ACCESSING FREE A | ARTIFICIAL INTELLIGENCE PDF BOOKS AND MANUALS IS CONVENIENT AND COST-EFFECTIVE, IT IS VITAL TO RESPECT COPYRIGHT LAWS AND INTELLECTUAL PROPERTY RIGHTS. PLATFORMS OFFERING FREE DOWNLOADS OFTEN OPERATE WITHIN LEGAL BOUNDARIES, ENSURING THAT THE MATERIALS THEY PROVIDE ARE EITHER IN THE PUBLIC DOMAIN OR AUTHORIZED FOR DISTRIBUTION. BY ADHERING TO COPYRIGHT LAWS, USERS CAN ENJOY THE BENEFITS OF FREE ACCESS TO KNOWLEDGE WHILE SUPPORTING THE AUTHORS AND PUBLISHERS WHO MAKE THESE RESOURCES AVAILABLE. IN CONCLUSION, THE AVAILABILITY OF A | ARTIFICIAL INTELLIGENCE FREE PDF BOOKS AND MANUALS FOR DOWNLOAD HAS REVOLUTIONIZED THE WAY WE ACCESS AND CONSUME KNOWLEDGE. WITH JUST A FEW CLICKS, INDIVIDUALS CAN EXPLORE A VAST COLLECTION OF RESOURCES ACROSS DIFFERENT DISCIPLINES, ALL FREE OF CHARGE. THIS

ACCESSIBILITY EMPOWERS INDIVIDUALS TO BECOME LIFELONG LEARNERS, CONTRIBUTING TO PERSONAL GROWTH, PROFESSIONAL DEVELOPMENT, AND THE ADVANCEMENT OF SOCIETY AS A WHOLE. SO WHY NOT UNLOCK A WORLD OF KNOWLEDGE TODAY? START EXPLORING THE VAST SEA OF FREE PDF BOOKS AND MANUALS WAITING TO BE DISCOVERED RIGHT AT YOUR FINGERTIPS.

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