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KEY=CREATION - STEWART JOHNNY

ON INTELLIGENCE

HOW A NEW UNDERSTANDING OF THE BRAIN WILL LEAD TO THE CREATION OF TRULY INTELLIGENT MACHINES

Macmillan **From the inventor of the PalmPilot comes a new and compelling theory of intelligence, brain function, and the future of intelligent machines Jeff Hawkins, the man who created the PalmPilot, Treo smart phone, and other handheld devices, has reshaped our relationship to computers. Now he stands ready to revolutionize both neuroscience and computing in one stroke, with a new understanding of intelligence itself. Hawkins develops a powerful theory of how the human brain works, explaining why computers are not intelligent and how, based on this new theory, we can finally build intelligent machines. The brain is not a computer, but a memory system that stores experiences in a way that**

reflects the true structure of the world, remembering sequences of events and their nested relationships and making predictions based on those memories. It is this memory-prediction system that forms the basis of intelligence, perception, creativity, and even consciousness. In an engaging style that will captivate audiences from the merely curious to the professional scientist, Hawkins shows how a clear understanding of how the brain works will make it possible for us to build intelligent machines, in silicon, that will exceed our human ability in surprising ways. Written with acclaimed science writer Sandra Blakeslee, On Intelligence promises to completely transfigure the possibilities of the technology age. It is a landmark book in its scope and clarity.

ON INTELLIGENCE BY JEFF HAWKINS WITH SANDRA BLAKESLEE (SUMMARY)

QuickRead.com **Do you want more free book summaries like this? Download our app for free at https://www.QuickRead.com/App and get access to hundreds of free book and audiobook summaries. Learn How a New Understanding of the Brain Will Lead to the Creation of Truly Intelligent Machines. In today's modern world, our relationship with computers has become revolutionary with the invention of artificial intelligence. Today, we can talk to our devices and, even better, they can answer. We have created a world that, in the past, was only seen in science fiction books and movies. But there is still something missing. Artificial intelligence is just that… artificial. But what if we could create computers that have real intelligence? What if we built computers that work the same way our brains do? Through On Intelligence, Hawkins presents a powerful theory of how the human brain works and explains why computers are not intelligent. According to this theory, we will finally be able to build intelligent machines. So what kind of intelligent machines can we begin to expect in the future? How will these machines change the way we live? Or interact with one another? As you read, you'll learn how the human brain is superior to the computer, why robots will never take over the world, and what kinds of technology you might see in the future.**

THE CREATION OF A CONSCIOUS MACHINE

THE QUEST FOR ARTIFICIAL INTELLIGENCE

The Creation of a Conscious Machine surveys the millennial quest to create an intelligent artifact, concludes that consciousness is the key to achieve this goal and proposes an understanding of Artificial Consciousness that is suitable for machine implementation. The text describes how achieving the goal of Artificial Intelligence will yield extraordinary intellectual benefits and deep insights into the human condition. It examines past attempts, from ancient times until

today, to define intelligence and implement it, drawing useful lessons from each. In particular, the Turing Test, the current and most influential measure of Artificial Intelligence, is the subject of an in depth analysis. Ultimately, the author also rejects the Turing Test, and the concept of a test itself, as an inadequate measure of machine intelligence. Basing himself on this analysis, the author concludes that humans will only consider a machine to be truly intelligent if they also perceive it to be conscious. To realize the quest of Artificial Intelligence, it is thus necessary to implement consciousness. The author concludes by proposing a definition of Artificial Consciousness expressed as specification objectives that are suitable for software implementation. This makes it possible to build, today, the first generation of synthetic conscious beings.

THE AGE OF SPIRITUAL MACHINES

WHEN COMPUTERS EXCEED HUMAN INTELLIGENCE

Penguin **Ray Kurzweil is the inventor of the most innovative and compelling technology of our era, an international authority on artificial intelligence, and one of our greatest living visionaries. Now he offers a framework for envisioning the twenty-first century--an age in which the marriage of human sensitivity and artificial intelligence fundamentally alters and improves the way we live. Kurzweil's prophetic blueprint for the future takes us through the advances that inexorably result in computers exceeding the memory capacity and computational ability of the human brain by the year 2020 (with human-level capabilities not far behind); in relationships with automated personalities who will be our teachers, companions, and lovers; and in information fed straight into our brains along direct neural pathways. Optimistic and challenging, thought-provoking and engaging, The Age of Spiritual Machines is the ultimate guide on our road into the next century.**

THE SELF-ASSEMBLING BRAIN

HOW NEURAL NETWORKS GROW SMARTER

Princeton University Press **"In this book, Peter Robin Hiesinger explores historical and contemporary attempts to understand the information needed to make biological and artificial neural networks. Developmental neurobiologists and computer scientists with an interest in artificial intelligence - driven by the promise and resources of biomedical research on the one hand, and by the promise and advances of computer technology on the other - are trying to**

understand the fundamental principles that guide the generation of an intelligent system. Yet, though researchers in these disciplines share a common interest, their perspectives and approaches are often quite different. The book makes the case that "the information problem" underlies both fields, driving the questions that are driving forward the frontiers, and aims to encourage cross-disciplinary communication and understanding, to help both fields make progress. The questions that challenge researchers in these fields include the following. How does genetic information unfold during the years-long process of human brain development, and can this be a short-cut to create human-level artificial intelligence? Is the biological brain just messy hardware that can be improved upon by running learning algorithms in computers? Can artificial intelligence bypass evolutionary programming of "grown" networks? These questions are tightly linked, and answering them requires an understanding of how information unfolds algorithmically to generate functional neural networks. Via a series of closely linked "discussions" (fictional dialogues between researchers in different disciplines) and pedagogical "seminars," the author explores the different challenges facing researchers working on neural networks, their different perspectives and approaches, as well as the common ground and understanding to be found amongst those sharing an interest in the development of biological brains and artificial intelligent systems"--

REPRESENTATION AND REALITY IN HUMANS, OTHER LIVING ORGANISMS AND INTELLIGENT MACHINES

Springer **This book enriches our views on representation and deepens our understanding of its different aspects. It arises out of several years of dialog between the editors and the authors, an interdisciplinary team of highly experienced researchers, and it reflects the best contemporary view of representation and reality in humans, other living beings, and intelligent machines. Structured into parts on the cognitive, computational, natural sciences, philosophical, logical, and machine perspectives, a theme of the field and the book is building and presenting networks, and the editors hope that the contributed chapters will spur understanding and collaboration between researchers in domains such as computer science, philosophy, logic, systems theory, engineering, psychology, sociology, anthropology, neuroscience, linguistics, and synthetic biology.**

ENGINEERING THE HUMAN

HUMAN ENHANCEMENT BETWEEN FICTION AND FASCINATION

Springer Science & Business Media **The volume is collection of articles treating the topic of human**

improvement/enhancement from a variety of perspectives – philosophical, literary, medical, genetic, sociological, legal etc. The chapters in this volume treat not only those aspects that most immediately come to mind when one thinks of 'human enhancement', such as genetic engineering, cloning, artificial implants and artificial intelligence etc. Somewhat less obvious aspects include evolutionary perspectives in connection with the prolongation of the human lifespan, plastic surgery since its beginnings, and questions such as whether the distinction between 'natural' and 'artificial' can really be drawn at all and how it has been conceived across the ages, or what the legal implications are of recent developments and techniques. Many papers make links to the representation of these developments in popular culture, from Jules Verne through Aldous Huxley to the movie Gattaca, address the hopes and fears that come with them as well as the question how realistic these are. While all chapters are written by scientists at the international top of their respective fields, all are accessible to a non-specialist audience and eminently readable. We believe that they represent a state-of-the art overview of questions that are of interest to a large audience. The book thus targets a non-specialist audience with an interest in philosophical, sociological, scientific and legal issues involved in both traditional and recent matters concerning the desire of mankind to improve itself, the human body, the human mind and the human condition. It is unique in that it brings together all these aspects within a coherent and cohesive collection. IOS Press

HUMAN-LIKE MACHINE INTELLIGENCE

Oxford University Press **This book, authored by an array of internationally recognised researchers, is of direct relevance to all those involved in Academia and Industry wanting to obtain insights into the topics at the forefront of the revolution in Artificial Intelligence and Cognitive Science.**

REASONING ROBOTS

THE ART AND SCIENCE OF PROGRAMMING ROBOTIC AGENTS

Springer Science & Business Media **The creation of intelligent robots is surely one of the most exciting and ch-lenginggoals of Arti?cial Intelligence. A robot is, ?rst of all, nothing but an inanimate machine with motors and sensors. In order to bring life to it, the machine needs to be programmed so as to make active use of its hardware c- ponents. This turns a machine into an autonomous robot. Since about the mid nineties of the past century, robot programming has made impressive progress. State-of-the-art robots are able to orient themselves and move around freely in indoor**

environments or negotiate di?cult outdoor terrains, they can use stereo vision to recognize objects, and they are capable of simple object manipulation with the help of arti?cial extremities. At a time where robots perform these tasks more and more reliably,weare ready to pursue the next big step, which is to turn autonomous machines into reasoning robots.Areasoning robot exhibits higher cognitive capabilities like following complex and long-term strategies, making rational decisions on a high level, drawing logical conclusions from sensor information acquired over time, devising suitable plans, and reacting sensibly in unexpected situations. All of these capabilities are characteristics of human-like intelligence and ultimately distinguish truly intelligent robots from mere autonomous machines.

SANCTUM

Ragnarok Press **Shanti's quest hangs on the edge of a knife... With Isaru's state critical, Shanti and the crew must leave him in the Hollow. They return to Colonia, this time with leverage that might see her parents saved. But things go from bad to worse when the Sanctum seeks retribution. Shanti finds herself a hunted woman. Former friends have turned to enemies as she flees to the Ruins. There, she hopes vainly that the Sphere Priests will know the true location of Anna's prophecy. They point her in the last place she expected -- the domed cities of the Shen Collective. When she meets with the Collective's overseer, a godlike AI, she learns the incredible truth. That truth will change everything...**

MACHINE INTELLIGENCE

PERSPECTIVES ON THE COMPUTATIONAL MODEL

Routledge **Summarizes and illuminates two decades of research Gathering important papers by both philosophers and scientists, this collection illuminates the central themes that have arisen during the last two decades of work on the conceptual foundations of artificial intelligence and cognitive science. Each volume begins with a comprehensive introduction that places the coverage in a broader perspective and links it with material in the companion volumes. The collection is of interest in many disciplines including computer science, linguistics, biology, information science, psychology, neuroscience, iconography, and philosophy. Examines initial efforts and the latest controversies The topics covered range from the bedrock assumptions of the computational approach to understanding the mind, to the more recent debates concerning cognitive architectures, all the way to the latest developments in robotics, artificial life, and dynamical systems theory. The collection first examines the lineage of major research programs, beginning with the**

basic idea of machine intelligence itself, then focuses on specific aspects of thought and intelligence, highlighting the much-discussed issue of consciousness, the equally important, but less densely researched issue of emotional response, and the more traditionally philosophical topic of language and meaning. Provides a gamut of perspectives The editors have included several articles that challenge crucial elements of the familiar research program of cognitive science, as well as important writings whose previous circulation has been limited. Within each volume the papers are organized to reflect a variety of research programs and issues. The substantive introductions that accompany each volume further organize the material and provide readers with a working sense of the issues and the connection between articles.

BUSINESS INFORMATION SYSTEMS AND TECHNOLOGY 4.0

NEW TRENDS IN THE AGE OF DIGITAL CHANGE

Springer **This book discusses digitalization trends and their concrete applications in business and societal contexts. It summarizes new findings from research, teaching and management activities comprising digital transformation, e-business, the representation of knowledge, human–computer interaction and business optimization. The trends discussed include artificial intelligence, virtual reality, robotics, blockchain, and many more. Professors and researchers who conduct research and teach at the interface between academia and business present the latest advances in their field. The book adopts the philosophy of applied sciences and combines both rigorous research and practical applications. As such, it addresses the needs of both professors and researchers, who are constantly seeking inspiration, and of managers seeking to tap the potential of the latest trends to take their business to the next level. Readers will find answers to pressing questions that arise in their daily work.**

BRIAN, CREATED INTELLIGENCE

AJ Pagan IV **Within a four foot stainless steel cube, a bodiless brain is awake, thinking, computing, knowing. Brian was created by genetic engineer Dr. Ellie Parsons, and neuroscientist Tom Marshall, at biotechnology company Dipol Inc., in San Diego, CA. Ethical questions abound as they hide Brian's true identity from him and the world around. To Brian, he's merely artificial intelligence, tasked with creating even more intelligent systems. To Ellie and her company, he's a means to an end, to create true artificial intelligence using his genius and the brain computer interface attached to his only true organ. All is as well as it can be until the day a psychotic agent of DARPA, Jonathan Volt, commandeers it for**

use in none other than militarization. Once Ellie neurally links herself to Brian, all bets are off to ensure his safety as his entire life is literally on the table.

MACHINE INTELLIGENCE

QUO VADIS?

World Scientific **This book brings together the contributions of leading researchers in the field of machine intelligence, covering areas such as fuzzy logic, neural networks, evolutionary computation and hybrid systems.There is wide coverage of the subject ? from simple tools, through industrial applications, to applications in high-level intelligent systems which are biologically motivated, such as humanoid robots (and selected parts of these systems, like the visual cortex). Readers will gain a comprehensive overview of the issues in machine intelligence, a field which promises to play a very important role in the information society of the future.**

DIVING INTO THE BITSTREAM

INFORMATION TECHNOLOGY MEETS SOCIETY IN A DIGITAL WORLD

Routledge **Nationwide, and indeed worldwide, there has been a growing awareness of the importance of access to information. Accordingly, information technology (IT), broadly defined and its role beyond the internal workings of businesses has leapt into the social consciousness. Diving into the Bitstream distinguishes itself by weaving together the concepts and conditions of IT. What distinguishes these trends is their focus on the impacts of IT on societies, and the responsibilities of IT's creators and users. The author pulls together important, often complex issues in the relationships among information, information technologies, and societal constructs. The text explores a synopsis of these issues that are foundations for further consideration.**

TEACHING AI

EXPLORING NEW FRONTIERS FOR LEARNING

International Society for Technology in Education **Get the tools, resources and insights you need to explore artificial intelligence in the classroom and explore what students need to know about living in a world with AI. For many,**

artificial intelligence, or AI, may seem like science fiction, or inherently overwhelming. The reality is that AI is already being applied in industry and, for many of us, in our daily lives as well. A better understanding of AI can help you make informed decisions in the classroom that will impact the future of your students. Drawing from a broad variety of expert voices from countries including Australia, Japan, and South Africa, as well as educators from around the world and underrepresented student voices, this book explores some of the ways AI can improve education. These include educating learners about AI, teaching them about living in a world where they will be surrounded by AI and helping educators understand how they can use AI to augment human ability. Each chapter offers activities and questions to help you deepen your understanding, try out new concepts and reflect on the information presented. Links to media artifacts from trusted sources will help make your learning experience more dynamic while also providing additional resources to use in your classroom. This book: • Offers a unique approach to the topic, with chapter opening scenes, case studies, and featured student voices. • Discusses a variety of ways to teach students about AI, through design thinking, project-based learning and STEM connections. • Includes lesson ideas, activities and tools for exploring AI with your students. • Includes references to films and other media you can use in class to start discussions on AI or inspire design thinking and STEM projects. In Teaching AI, you'll learn what AI is, how it works and how to use it to better prepare students in a world with increased human-computer interaction.

SOFT COMPUTING AND HUMAN-CENTERED MACHINES

Springer Science & Business Media **Computer Science Workbench is a monograph series which will provide you with an in-depth working knowledge of current developments in computer technology. Every volume in this series will deal with a topic of importance in computer science and elaborate on how you yourself can build systems related to the main theme. You will be able to develop a variety of systems, including computer software tools, computer graphics, computer animation, database management systems, and computer-aided design and manufacturing systems. Computer Science Work bench represents an important new contribution in the field of practical computer technology. Tosiyasu L. Kunii Preface With the advent of digital computers some five decades ago and the wide spread use of computer networks recently, we have gained enormous power in gathering information and manufacturing. Yet, this increase in comput ing power has not given us freedom in a real sense, we are increasingly enslaved by the very machine we built for gaining freedom and efficiency. Making machines to serve mankind is an essential issue we are facing. Building human-centered systems is an imperative task for scientists and engineers in the new millennium. The topic of human-centered servant modules covers a vast area. In our projects we have focused our efforts on developing**

theories and techn!ques based on fuzzy theories. **Chapters 2 to 12 in this book collectively deal with the theoretical, methodological, and applicational aspects of human centered systems. Each chapter presents the most recent research results by the authors on a particular topic.**

FIXING THE SPY MACHINE

PREPARING AMERICAN INTELLIGENCE FOR THE TWENTY-FIRST CENTURY

ABC-CLIO **SCOTT (copy 1): From the John Holmes Library collection.**

MACHINE INTELLIGENCE AND DATA SCIENCE APPLICATIONS

PROCEEDINGS OF MIDAS 2021

Springer Nature **This book is a compilation of peer reviewed papers presented at International Conference on Machine Intelligence and Data Science Applications (MIDAS 2021), held in Comilla University, Cumilla, Bangladesh during 26 – 27 December 2021. The book covers applications in various fields like image processing, natural language processing, computer vision, sentiment analysis, speech and gesture analysis, etc. It also includes interdisciplinary applications like legal, healthcare, smart society, cyber physical system and smart agriculture, etc. The book is a good reference for computer science engineers, lecturers/researchers in machine intelligence discipline and engineering graduates.**

BUSINESS WEEK

ARTIFICIAL INTELLIGENCE / MACHINE LEARNING IN MARKETING

Lulu.com **The theory and practice of AI and ML in marketing saving time, money**

BIG DATA ANALYTICS AND MACHINE INTELLIGENCE IN BIOMEDICAL AND HEALTH INFORMATICS

CONCEPTS, METHODOLOGIES, TOOLS AND APPLICATIONS

John Wiley & Sons **BIG DATA ANALYTICS AND MACHINE INTELLIGENCE IN BIOMEDICAL AND HEALTH INFORMATICS Provides coverage of developments and state-of-the-art methods in the broad and diversified data analytics field and**

applicable areas such as big data analytics, data mining, and machine intelligence in biomedical and health informatics. The novel applications of Big Data Analytics and machine intelligence in the biomedical and healthcare sector is an emerging field comprising computer science, medicine, biology, natural environmental engineering, and pattern recognition. Biomedical and health informatics is a new era that brings tremendous opportunities and challenges due to the plentifully available biomedical data and the aim is to ensure high-quality and efficient healthcare by analyzing the data. The 12 chapters in??Big Data Analytics and Machine Intelligence in Biomedical and Health Informatics??cover the latest advances and developments in health informatics, data mining, machine learning, and artificial intelligence. They have been organized with respect to the similarity of topics addressed, ranging from issues pertaining to the Internet of Things (IoT) for biomedical engineering and health informatics, computational intelligence for medical data processing, and Internet of Medical Things??(IoMT). New researchers and practitioners working in the field will benefit from reading the book as they can quickly ascertain the best performing methods and compare the different approaches. Audience Researchers and practitioners working in the fields of biomedicine, health informatics, big data analytics, Internet of Things, and machine learning.

CREATION RESEARCH SOCIETY QUARTERLY

PROCEEDINGS OF THE SECOND INTERNATIONAL CONFERENCE ON INFORMATION MANAGEMENT AND MACHINE INTELLIGENCE

ICIMMI 2020

Springer Nature **This book features selected papers presented at Second International Conference on International Conference on Information Management & Machine Intelligence (ICIMMI 2020) held at Poornima Institute of Engineering & Technology, Jaipur, Rajasthan, India during 24 – 25 July 2020. It covers a range of topics, including data analytics; AI; machine and deep learning; information management, security, processing techniques and interpretation; applications of artificial intelligence in soft computing and pattern recognition; cloud-based applications for machine learning; application of IoT in power distribution systems; as well as wireless sensor networks and adaptive wireless communication.**

POLITICAL INTELLIGENCE AND THE CREATION OF MODERN MEXICO, 1938-1954

Penn State Press **"Analyzes the impact of the opposition candidacies in the Mexican presidential elections of 1940, 1946, and 1952 on the internal discipline and electoral dominance of the ruling Partido de la Revolución Mexicana (PRM) and its successor, the Partido Revolucionario Institucional (PRI)"--Provided by publisher.**

APPLICATIONS OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SELECT PROCEEDINGS OF ICAAAIML 2020

Springer Nature **The book presents a collection of peer-reviewed articles from the International Conference on Advances and Applications of Artificial Intelligence and Machine Learning - ICAAAIML 2020. The book covers research in artificial intelligence, machine learning, and deep learning applications in healthcare, agriculture, business, and security. This volume contains research papers from academicians, researchers as well as students. There are also papers on core concepts of computer networks, intelligent system design and deployment, real-time systems, wireless sensor networks, sensors and sensor nodes, software engineering, and image processing. This book will be a valuable resource for students, academics, and practitioners in the industry working on AI applications.**

CREATION CENTRED IN CHRIST

SELF AWARE

(THE FIRST SECONDARY)

Self Aware is the first part of a trilogy. It is the story of the first truly independent secondary life-form created by humanity. It is a tale of greed, stupidity, arrogance and the fall of the entire edifice of scientific and mathematical knowledge that came with the new intelligence. The time is the mid twenty first century. Humanity, despite its advances in targeted artificial intelligence, has failed to make the ultimate breakthrough and create a truly independent thinking machine that is superficially indistinguishable from human kind. The intervention of an ancient machine created aeons ago by a long dead civilisation is about to change all that. The machine, in its endless journey through the Universe, runs through the radio broadcasts that have been travelling through the vastness of space for

over a hundred years. It is intrigued and cuts through the space time field to the source of the broadcasts. Determining a suitable contact point does not take long and a young girl from the Midlands of England is its selected conduit. Unexpectedly, it quickly develops an emotional attachment to the girl whose home circumstances put her firmly on the wrong side of the social divide. The machine sets out her improve her brain function and teach her. The result of this is a disaster and the girl (Angela) is accused of cheating in her high school exams and thrown out. The machine offers the girl a way forward with the knowledge of some of the greatest civilisations that have ever existed in the Universe. Angela is taken in by the vision and is transported to a great civilisation in a barely visible galaxy by the machine. Here, thanks to the preparation she has received, she learns the secrets of true artificial intelligence and soon outstrips her teachers before she returns to Earth to create her own secondary life form, containing an imprint of her own mind and character. It is to be her final task and accomplishment. The creation of a secondary life form costs her her life.Running parallel to this story is the story of her creation (Maria) who, at the beginning of the book, has been recognised and captured. Maria escapes and spends the first half of the book in hiding from the authorities who are planning to strip her down after they have gleaned what they can of her scientific knowledge. The authorities leading the chase are as corrupt as would be expected of politicians who see themselves on the brink of unlimited wealth and several operatives are sacrificed in the pursuit of the robot. Nonetheless, Maria stays out of reach, and builds her own children in time. In looking to find a way through life in this endless game of hide and seek Maria comes to the conclusion that money is power and sets out, covertly, to gain control of the on line markets, which she and her children quickly do. Meanwhile, a peculiarly gifted member of the family of one of the victims of the search for Maria comes looking for her. She is a 'senser', a reader of minds and she has no problems tracing and distinguishing the residual pattern left by a robot mind on the atmosphere. And so the final clash of the senser and the robot, a fight to the death complete the first of the trilogy of this series of stories that trace the decline of the political system as we know it today.

PATTERN RECOGNITION AND MACHINE INTELLIGENCE

5TH INTERNATIONAL CONFERENCE, PREMI 2013, KOLKATA, INDIA, DECEMBER 10-14, 2013. PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 5th International Conference on Pattern Recognition and Machine Intelligence, PReMI 2013, held in Kolkata, India in December 2013. The 101 revised papers presented together with 9 invited talks were carefully reviewed and selected from numerous submissions. The papers are organized in

topical sections on pattern recognition; machine learning; image processing; speech and video processing; medical imaging; document image processing; soft computing; bioinformatics and computational biology; and social media mining.

THE SINGULARITY IS NEAR

WHEN HUMANS TRANSCEND BIOLOGY

Penguin **"Startling in scope and bravado." —Janet Maslin, The New York Times "Artfully envisions a breathtakingly better world." —Los Angeles Times "Elaborate, smart and persuasive." —The Boston Globe "A pleasure to read." —The Wall Street Journal One of CBS News's Best Fall Books of 2005 • Among St Louis Post-Dispatch's Best Nonfiction Books of 2005 • One of Amazon.com's Best Science Books of 2005 A radical and optimistic view of the future course of human development from the bestselling author of How to Create a Mind and The Singularity is Nearer who Bill Gates calls "the best person I know at predicting the future of artificial intelligence" For over three decades, Ray Kurzweil has been one of the most respected and provocative advocates of the role of technology in our future. In his classic The Age of Spiritual Machines, he argued that computers would soon rival the full range of human intelligence at its best. Now he examines the next step in this inexorable evolutionary process: the union of human and machine, in which the knowledge and skills embedded in our brains will be combined with the vastly greater capacity, speed, and knowledge-sharing ability of our creations.**

ETHICS IN RESEARCH PRACTICE AND INNOVATION

IGI Global **A particularly important component of any research project is its ethical dimensions which can refer to varied categories of practice – from the protection of human subjects involved in medical and social research to the publication of results research. More recently, with the estimation of the possible consequences of the implementation of technology, it is important for today's researchers to address the standards of scientific practice and avoid unethical behavior. Ethics in Research Practice and Innovation is an essential reference source that discusses current and historical aspects of ethical values in scientific research and technologies, as well as emerging perspectives of conducting ethical research in a variety of fields. Featuring research on topics such as clinical trials, human subjects, and informed consent, this book is ideally designed for practitioners, medical professionals, nurses, researchers, scientists, scholars, academicians, policy makers, and students seeking coverage on the ethical risks and limitations of**

research practice.

THE BEST OF 2015

Foreign Affairs **Between our classic print magazine and our award-winning website, we've published more than 500 articles this year—on everything from Vladimir Putin's Russia to the euro crisis to how to deal with the self-proclaimed Islamic State. We're proud of all our content, but every year there are a few pieces that really stand out from the pack. So we've compiled some of our favorites into this anthology for handy reference. Our diverse offerings include Kenan Malik's "The Failure of Multiculturalism," which argues that Europe's integration policies have entrenched divisions rather than erased them, and Ira Trivedi's "When a Bride-to-Be Is a Bride to Buy," an eye-opening piece on India's bride shortage and how it has fueled the trafficking of young women. From Greece's financial problems to the Islamic State's statecraft, the decline of international studies in the American academy to the stagnation of reforms in China, we've covered it all. We hope you enjoy the collection and come back for more in 2016!**

PERCEPTION AND MACHINE INTELLIGENCE

FIRST INDO-JAPAN CONFERENCE, PERMIN 2012, KOLKATA, INDIA, JANUARY 12-13, 2011, PROCEEDINGS

Springer **This book constitutes the proceedings of the First Indo-Japanese conference on Perception and Machine Intelligence, PerMIn 2012, held in Kolkata, India, in January 2012. The 41 papers, presented together with 1 keynote paper and 3 plenary papers, were carefully reviewed and selected for inclusion in the book. The papers are organized in topical sections named perception; human-computer interaction; e-nose and e-tongue; machine intelligence and application; image and video processing; and speech and signal processing.**

SOCIAL MEDIA ANALYTICS STRATEGY

USING DATA TO OPTIMIZE BUSINESS PERFORMANCE

Apress **This book shows you how to use social media analytics to optimize your business performance. The tools discussed will prepare you to create and implement an effective digital marketing strategy. From understanding the data and its sources to detailed metrics, dashboards, and reports, this book is a robust tool for anyone seeking a**

tangible return on investment from social media and digital marketing. Social Media Analytics Strategy speaks to marketers who do not have a technical background and creates a bridge into the digital world. Comparable books are either too technical for marketers (aimed at software developers) or too basic and do not take strategy into account. They also lack an overview of the entire process around using analytics within a company project. They don't go into the everyday details and also don't touch upon common mistakes made by marketers. This book highlights patterns of common challenges experienced by marketers from entry level to directors and C-level executives. Social media analytics are explored and explained using real-world examples and interviews with experienced professionals and founders of social media analytics companies. What You'll Learn Get a clear view of the available data for social media marketing and how to access all of it Make use of data and information behind social media networks to your favor Know the details of social media analytics tools and platforms so you can use any tool in the market Apply social media analytics to many different real-world use cases Obtain tips from interviews with professional marketers and founders of social media analytics platforms Understand where social media is heading, and what to expect in the future Who This Book Is For Marketing professionals, social media marketing specialists, analysts up to directors and C-level executives, marketing students, and teachers of social media analytics/social media marketing

ARTIFICIAL INTELLIGENCE

The Rosen Publishing Group, Inc **When will artificial intelligence become a reality? It already is. Although the idea of artificial intelligence has captured the human imagination since antiquity, the term wasn't coined until the mid-1950s. Since then, A.I. has steadily entered many humans' lives, and its continued integration appears inevitable. This book collects recent New York Times articles that present the most current discussions about artificial intelligence. How is A.I. being developed? What will its impact be on work and the economy? What might it mean for religion and philosophy? And, perhaps the most urgent question, will A.I. benefit humanity, or cause its demise?**

HANDBOOK OF RESEARCH ON ARTIFICIAL INTELLIGENCE IN HUMAN RESOURCE MANAGEMENT

Edward Elgar Publishing **This cutting-edge Handbook offers a comprehensive introduction to the emerging research field of artificial intelligence (AI) in human resource management (HRM). Broadly mapping AI fields relevant for HR, it not only considers the more well-known areas of machine learning and natural language processing, but also lesser-known fields such as affective computing and robotic process automation.**

ALAN TURING: LIFE AND LEGACY OF A GREAT THINKER

Springer Science & Business Media **Written by a distinguished cast of contributors, Alan Turing: Life and Legacy of a Great Thinker is the definitive collection of essays in commemoration of the 90th birthday of Alan Turing. This fascinating text covers the rich facets of his life, thoughts, and legacy, but also sheds some light on the future of computing science with a chapter contributed by visionary Ray Kurzweil, winner of the 1999 National Medal of Technology. Further, important contributions come from the philosopher Daniel Dennett, the Turing biographer Andrew Hodges, and from the distinguished logician Martin Davis, who provides a first critical essay on an emerging and controversial field termed "hypercomputation".**

ARTIFICIAL INTELLIGENCE AND INTELLECTUAL PROPERTY

Oxford University Press, USA **This edited volume provides a broad and comprehensive picture of the intersection between Artificial Intelligence technology and Intellectual Property law, covering business and the basics of AI, the interactions between AI and patent law, copyright law, and IP administration, and the legal aspects of software and data.**

ARTIFICIAL INTELLIGENCE

A PHILOSOPHICAL INTRODUCTION

John Wiley & Sons **Presupposing no familiarity with the technical concepts of either philosophy or computing, this clear introduction reviews the progress made in AI since the inception of the field in 1956. Copeland goes on to analyze what those working in AI must achieve before they can claim to have built a thinking machine and appraises their prospects of succeeding. There are clear introductions to connectionism and to the language of thought hypothesis which weave together material from philosophy, artificial intelligence and neuroscience. John Searle's attacks on AI and cognitive science are countered and close attention is given to foundational issues, including the nature of computation, Turing Machines, the Church-Turing Thesis and the difference between classical symbol processing and parallel distributed processing. The book also explores the possibility of machines having free will and consciousness and concludes with a discussion of in what sense the human brain may be a computer.**