THEORETICAL FOUNDATIONS OF ARTIFICIAL GENERAL INTELLIGENCE

PEI WANG, BEN GOERTZEL (EDS.)

Theoretical Foundations Of Artificial General Intelligence Atlantis Thinking Machines

Pei Wang,Ben Goertzel

Theoretical Foundations Of Artificial General Intelligence Atlantis Thinking Machines:

    Theoretical Foundations of Artificial General Intelligence Pei Wang,Ben Goertzel,2012-08-31 This book is a collection of writings by active researchers in the field of Artificial General Intelligence on topics of central importance in the field Each chapter focuses on one theoretical problem proposes a novel solution and is written in sufficiently non technical language to be understandable by advanced undergraduates or scientists in allied fields This book is the very first collection in the field of Artificial General Intelligence AGI focusing on theoretical conceptual and philosophical issues in the creation of thinking machines All the authors are researchers actively developing AGI projects thus distinguishing the book from much of the theoretical cognitive science and AI literature which is generally quite divorced from practical AGI system building issues And the discussions are presented in a way that makes the problems and proposed solutions understandable to a wide readership of non specialists providing a distinction from the journal and conference proceedings literature The book will benefit AGI researchers and students by giving them a solid orientation in the conceptual foundations of the field which is not currently available anywhere and it would benefit researchers in allied fields by giving them a high level view of the current state of thinking in the AGI field Furthermore by addressing key topics in the field in a coherent way the collection as a whole may play an important role in guiding future research in both theoretical and practical AGI and in linking AGI research with work in allied disciplines   *Artificial General Intelligence* Ben Goertzel,Aleksandr I. Panov,Alexey Potapov,Roman Yampolskiy,2020-07-06 This book constitutes the refereed proceedings of the 13th International Conference on Artificial General Intelligence AGI 2020 held in St Petersburg Russia in September 2020 The 30 full papers and 8 short papers presented in this book were carefully reviewed and selected from 60 submissions The papers cover topics such as AGI architectures artificial creativity and AI safety transfer learning AI unification and benchmarks for AGI   Artificial General Intelligence Kai-Uwe Kühnberger,Sebastian Rudolph,Pei Wang,2013-06-24 This book constitutes the refereed proceedings of the 6th International Conference on Artificial General Intelligence AGI 2013 held in Beijing China in July August 2013 The 23 papers 17 full papers 3 technical communications and 3 special session papers were carefully reviewed and selected from various submissions The volume collects the current research endeavors devoted to develop formalisms algorithms and models as well as systems that are targeted at general intelligence Similar to the predecessor AGI conferences researchers proposed different methodologies and techniques in order to bridge the gap between forms of specialized intelligence and general intelligence   **Artificial General Intelligence** Patrick Hammer,Pulin Agrawal,Ben Goertzel,Matthew Iklé,2019-07-30 This book constitutes the refereed proceedings of the 12th International Conference on Artificial General Intelligence AGI 2019 held in Shenzhen China in August 2019 The 16 full papers and 5 poster papers presented in this book were carefully reviewed and selected from 30 submissions The papers are covering AGI architectures discussing mathematical foundations philosophical foundations safety and ethics and developing ideas from neuroscience and cognitive

science   Cognitive Semantics of Artificial Intelligence: A New Perspective Alexander Raikov,2021-02-02 This book addresses the issue of cognitive semantics aspects that cannot be represented by traditional digital and logical means The problem of creating cognitive semantics can be resolved in an indirect way The electromagnetic waves quantum fields beam of light chaos control relativistic theory cosmic string recognition category theory group theory and so on can be used for this aim Since the term artificial intelligence AI appeared various versions of logic have been created many heuristics for neural networks deep learning have been made new nature like algorithms have been suggested At the same time the initial digital logical and neural network principles of representation of knowledge in AI systems have not changed a lot The researches of these aspects of cognitive semantics of AI are based on the author s convergent methodology which provides the necessary conditions for purposeful and sustainable convergence of decision making   **The Ethics of Superintelligent Design** Paul Golata,2018-03-07 Artificial intelligence AI permeates Google searches the personal assistants in our smartphones and is all over our newsfeeds Watson s machine learning has already started to revolutionize many important industries including oncology law finance and entertainment The idea that man is about to increase his immediate surroundings with exponential gains in the level of intelligence over the coming generations is based upon a technological revolution and the potential for artificial superintelligence ASI It is within this context that there is a prevailing need for a discussion of its ethical implications As a Christian ethicist Paul Golata believes that the need for this conversation to be informed by Christian principles is imperative ASI is a move toward the proper handling of information However how a society interprets and applies this information is actually more pertinent than the raw amount of information it possesses This important ethical conversation is being led by humanistic thinkers who assume that all of reality is just matter in motion and that mind is nothing more than electrochemical activity in the wetware of human brains The Ethics of Superintelligent Design critically examines and challenges some of the most important trajectories of ASI while upholding the authority and inerrancy of the Bible the supernatural creation account a realistic view of the state of humanity and biblical ethics   **Computational Models for Cognitive Vision** Hiranmay Ghosh,2020-07-01 Learn how to apply cognitive principles to the problems of computer vision Computational Models for Cognitive Vision formulates the computational models for the cognitive principles found in biological vision and applies those models to computer vision tasks Such principles include perceptual grouping attention visual quality and aesthetics knowledge based interpretation and learning to name a few The author s ultimate goal is to provide a framework for creation of a machine vision system with the capability and versatility of the human vision Written by Dr Hiranmay Ghosh the book takes readers through the basic principles and the computational models for cognitive vision Bayesian reasoning for perception and cognition and other related topics before establishing the relationship of cognitive vision with the multi disciplinary field broadly referred to as artificial intelligence The principles are illustrated with diverse application examples in computer vision such as computational photography digital heritage and social robots

The author concludes with suggestions for future research and salient observations about the state of the field of cognitive vision Other topics covered in the book include knowledge representation techniques evolution of cognitive architectures deep learning approaches for visual cognition Undergraduate students graduate students engineers and researchers interested in cognitive vision will consider this an indispensable and practical resource in the development and study of computer vision   **Advances in Computational Collective Intelligence** Marcin Hernes,Krystian Wojtkiewicz,Edward Szczerbicki,2020-11-20 This book constitutes refereed proceedings of the 12th International Conference on International Conference on Computational Collective Intelligence ICCCI 2020 held in Da Nang Vietnam in November December 2020 Due to the the COVID 19 pandemic the conference was held online The 68 papers were thoroughly reviewed and selected from 314 submissions The papers are organized according to the following topical sections data mining and machine learning deep learning and applications for industry 4 0 recommender systems computer vision techniques decision support and control systems intelligent management information systems innovations in intelligent systems intelligent modeling and simulation approaches for games and real world systems experience enhanced intelligence to IoT data driven IoT for smart society applications of collective intelligence natural language processing low resource languages processing computational collective intelligence and natural language processing   Singularity Hypotheses Amnon H. Eden,James H Moor,Johnny H Soraker,Eric Steinhart,2013-04-03 Singularity Hypotheses A Scientific and Philosophical Assessment offers authoritative jargon free essays and critical commentaries on accelerating technological progress and the notion of technological singularity It focuses on conjectures about the intelligence explosion transhumanism and whole brain emulation Recent years have seen a plethora of forecasts about the profound disruptive impact that is likely to result from further progress in these areas Many commentators however doubt the scientific rigor of these forecasts rejecting them as speculative and unfounded We therefore invited prominent computer scientists physicists philosophers biologists economists and other thinkers to assess the singularity hypotheses Their contributions go beyond speculation providing deep insights into the main issues and a balanced picture of the debate   **Computational and Corpus-Based Phraseology** Gloria Corpas Pastor,Ruslan Mitkov,2022-09-21 This book constitutes the refereed proceedings of the 4th International Conference on Computational and Corpus Based Phraseology Europhras 2022 held in Malaga Spain in September 2022 The 16 full papers presented in this book were carefully reviewed and selected from 59 submissions The papers in this volume cover a number of topics including general corpus based approaches to phraseology phraseology in translation and cross linguistic studies phraseology in language teaching and learning phraseology in specialized languages phraseology in lexicography cognitive approaches to phraseology the computational treatment of multiword expressions and the development annotation and exploitation of corpora for phraseological studies   **Roboethics** Spyros G. Tzafestas,2015-07-27 This volume explores the ethical questions that arise in the development creation and use of robots that are capable of semiautonomous or autonomous

decision making and human like action It examines how ethical and moral theories can and must be applied to address the complex and critical issues of the application of these intelligent robots in society Coverage first presents fundamental concepts and provides a general overview of ethics artificial intelligence and robotics Next the book studies all principal ethical applications of robots namely medical assistive socialized and war roboethics It looks at such issues as robotic surgery children robot and elderly robot therapeutical social interactions and the use of robots especially autonomous lethal ones in warfare In addition a chapter also considers Japanese roboethics as well as key intercultural and robot legislation issues Overall readers are provided with a thorough investigation into the moral responsibility if any of autonomous robots when doing harm This volume will serve as an ideal educational source in engineering and robotics courses as well as an introductory reference for researchers in the field **AI vs Humans** Michael W. Eysenck,Christine Eysenck,2021-12-30 The great majority of books on artificial intelligence are written by AI experts who understandably focus on its achievements and potential transformative effects on society In contrast AI vs Humans is written by two psychologists Michael and Christine Eysenck whose perspective on AI including robotics is based on their knowledge and understanding of human cognition This book evaluates the strengths and limitations of people and AI The authors expertise equips them well to consider this by seeing how well or badly AI compares to human intelligence They accept that AI matches or exceeds human ability in many spheres such as mathematical calculations complex games e g chess Go and poker diagnosis from medical images and robotic surgery However the human tendency to anthropomorphise has led many people to claim mistakenly that AI systems can think infer reason and understand while engaging in information processing In fact such systems lack all those cognitive skills and are also deficient in the quintessentially human abilities of flexibility of thinking and general intelligence At a time when human commitment to AI appears unstoppable this up to date book advocates a symbiotic and co operative relationship between humans and AI It will be essential reading for anyone interested in AI and human cognition **Practical Machine Learning** Ally S. Nyamawe,Mohamedi M. Mjahidi,Noe E. Nnko,Salim A. Diwani,Godbless G. Minja,Kulwa Malyango,2025-02-07 The book provides an accessible comprehensive introduction for beginners to machine learning equipping them with the fundamental skills and techniques essential for this field It enables beginners to construct practical real world solutions powered by machine learning across diverse application domains It demonstrates the fundamental techniques involved in data collection integration cleansing transformation development and deployment of machine learning models This book emphasizes the importance of integrating responsible and explainable AI into machine learning models ensuring these principles are prioritized rather than treated as an afterthought To support learning this book also offers information on accessing additional machine learning resources such as datasets libraries pre trained models and tools for tracking machine learning models This is a core resource for students and instructors of machine learning and data science looking for a beginner friendly material which offers real world applications and takes ethical discussions into account The

<u>Beyond Zero and One</u> Andrew Smart,2015-12-03 Andrew Smart deftly shows why it s time for us to think deeply about thinking machines before they begin thinking deeply about us Douglas Rushkoff author Escaping the Growth Trap Present Shock and Program or Be Programmed Provocative and cool Cory Doctorow Forget the Turing test will the supersmart AIs that we hear so much about these days pass the acid test In this playful informative and prescient book Andrew Smart brings psychedelics into dialogue with neuroscience in order to challenge the whiz bang computational views of human and machine sentience that dominate the headlines Giving robots LSD sounds like a joke but Smart is dead serious in his critique of the hidden and sometimes dangerous biases that underlie both popular and scientific fantasies of digital minds Erik Davis host of Expanding Mind and author Techgnosis Myth Magic and Mysticism in the Age of Information Philosophy psychedelics robots and the future consciousness and intelligence what else do you desire Here you will see why those machines that reach singularity will be smarter than us and take over the world and shall need to be conscious and maybe they can only be conscious if they are human enough The thesis of the book and the path shown us by Smart leads to a great trip of imagination and philosophy of maths and neuroscience Dr Tristan Bekinschtein Lecturer Department of Psychology University of Cambridge Can we build a robot that trips on acid This is not a frivolous question according to neuroscientist Andrew Smart If we can t he argues we haven t really created artificial intelligence In an exposition reminiscent of crossover works such as G del Escher Bach and Fermat s Last Theorem Andrew Smart weaves together Mangarevan binary numbers the discovery of LSD Leibniz computer programming and much more to connect the vast but largely forgotten world of psychedelic research with the resurgent field of AI and the attempt to build conscious robots A book that draws on the history of mathematics philosophy and digital technology Beyond Zero and One challenges fundamental assumptions underlying artificial intelligence Is the human brain based on computation Can information alone explain human consciousness and intelligence Smart convincingly makes the case that true intelligence and artificial intelligence requires an appreciation of what is beyond the computational

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING AND MARKETING MANAGEMENT James Seligman,2018-09-20 OBJECTIVES The book objectives provide a full delivery of information on the fields of artificial intelligence AI and machine learning ML to educators students and practitioners of marketing By explaining AI and ML terminology and its applications including marketing the book is designed to inform and educate Marketing use of AI and ML has exploded in recent decades as marketers have seen the considerable benefits of these two technologies It is understood and explained that AI deals with Intelligent behaviour by machines rather than natural intelligence found in humans and animals it is the machine mimicking cognitive functions that humans associate with the mind in learning expression and problem solving and much more

Recent Challenges in Intelligent Information and Database Systems Ngoc Thanh Nguyen,Siridech Boonsang,Hamido

Fujita,Bogumiła Hnatkowska,Tzung-Pei Hong,Kitsuchart Pasupa,Ali Selamat,2023-09-28 This book constitutes the second part of the proceedings of the 15th Asian Conference on Intelligent Information and Database Systems ACIIDS 2023 held in Phuket Thailand during July 24 26 2023 The 50 full papers included in this book were carefully reviewed and selected from 224 submissions They were organized in topical sections as follows Computer Vision Cybersecurity and Fraud Detection Data Analysis Modeling and Processing Data Mining and Machine Learning Forecasting and Optimization Techniques Healthcare and Medical Applications Speech and Text Processing **Artificial General Intelligence** Bas Steunebrink,Pei Wang,Ben Goertzel,2016-06-24 This book constitutes the refereed proceedings of the 9th International Conference on Artificial General Intelligence AGI 2016 held in New York City NY USA in July 2016 as part of HLAI 2016 the Joint Multi Conference on Human Level Artificial Intelligence 2016 The 24 full papers 2 short papers and 10 poster papers presented were carefully reviewed and selected from 67 submissions AGI research differs from the ordinary AI research by stressing on the versatility and wholeness of intelligence and by carrying out the engineering practice according to an outline of a system comparable to the human mind inSelf a certain sense **Automated Driving** Daniel Watzenig,Martin Horn,2016-09-23 The main topics of this book include advanced control cognitive data processing high performance computing functional safety and comprehensive validation These topics are seen as technological bricks to drive forward automated driving The current state of the art of automated vehicle research development and innovation is given The book also addresses industry driven roadmaps for major new technology advances as well as collaborative European initiatives supporting the evolvement of automated driving Various examples highlight the state of development of automated driving as well as the way forward The book will be of interest to academics and researchers within engineering graduate students automotive engineers at OEMs and suppliers ICT and software engineers managers and other decision makers *Engineering General Intelligence, Part 1* Ben Goertzel,Cassio Pennachin,Nil Geisweiller,2014-07-08 The work outlines a novel conceptual and theoretical framework for understanding Artificial General Intelligence and based on this framework outlines a practical roadmap for the development of AGI with capability at the human level and ultimately beyond **Consciousness in Humanoid Robots** Antonio Chella,Angelo Cangelosi,Giorgio Metta,Selmer Bringsjord,2019-06-05 Building a conscious robot is a scientific and technological challenge Debates about the possibility of conscious robots and the related positive outcomes and hazards for human beings are today no longer confined to philosophical circles Robot consciousness is a research field aimed at a two part goal on the one hand scholars working in robot consciousness take inspiration from biological consciousness to build robots that present forms of experiential and functional consciousness On the other hand scholars employ robots as tools to better understand biological consciousness Thus part one of the goal concerns the replication of aspects of biological consciousness in robots by unifying a variety of approaches from AI and robotics cognitive robotics epigenetic and affective robotics situated and embodied robotics developmental robotics anticipatory systems and biomimetic robotics Part two of the

goal is pursued by employing robots to advance and mark progress in the study of consciousness in humans and animals Notably neuroscientists involved in the study of consciousness do not exclude the possibility that robots may be conscious This eBook comprises a collection of thirteen manuscripts and an Editorial published by Frontiers in Robotics and Artificial Intelligence under the section Humanoid Robotics and Frontiers in Neurorobotics on the topic Consciousness in Humanoid Robots This compendium aims at collating the most recent theoretical studies models and case studies of machine consciousness that take the humanoid robot as a frame of reference The content in the articles may be applied to many different kinds of robots and to software agents as well

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