

Establishing a Roadmap and Metrics for Conscious Machines Development

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The Cognitive Approach To Conscious Machines

Margaret A. Boden



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The Cognitive Approach to Conscious Machines Pentti O. Haikonen, 2015-11-30 Could a machine have an immaterial mind The author argues that true conscious machines can be built but rejects artificial intelligence and classical neural networks in favour of the emulation of the cognitive processes of the brain the flow of inner speech inner imagery and emotions This results in a non numeric meaning processing machine with distributed information representation and system reactions It is argued that this machine would be conscious it would be aware of its own existence and its mental content and perceive this as immaterial Novel views on consciousness and the mind body problem are presented This book is a must for anyone interested in consciousness research and the latest ideas in the forthcoming technology of mind

The Cognitive Approach to Conscious Machines Pentti O. Haikonen, 2003 The author argues that true conscious machines can be built but rejects artificial intelligence and classical neural networks in favor of the emulation of the cognitive processes of the brain Novel views on consciousness and the mind body problem are presented *Robot Brains* Pentti O.

Haikonen, 2007-09-27 Haikonen envisions autonomous robots that perceive and understand the world directly acting in it in a natural human like way without the need of programs and numerical representation of information By developing higher level cognitive functions through the power of artificial associative neuron architectures the author approaches the issues of machine consciousness *Robot Brains* expertly outlines a complete system approach to cognitive machines offering practical design guidelines for the creation of non numeric autonomous creative machines It details topics such as component parts and realization principles so that different pieces may be implemented in hardware or software Real world examples for designers and researchers are provided including circuit and systems examples that few books on this topic give In novel technical and practical detail this book also considers the limitations and remedies of traditional neural associators in creating true machine cognition basic circuit assemblies cognitive neural architectures how motors can be interfaced with the associative neural system in order for fluent motion to be achieved without numeric computations memorization imagination planning and reasoning in the machine the concept of machine emotions for motivation and value systems an approach towards the use and understanding of natural language in robots The methods presented in this book have important implications for computer vision signal processing speech recognition and other information technology fields Systematic and thoroughly logical it will appeal to practising engineers involved in the development and design of robots and cognitive machines also researchers in Artificial Intelligence Postgraduate students in computational neuroscience and robotics and neuromorphic engineers will find it an exciting source of information

Computational Approaches To Conscious Artificial Intelligence Antonio Chella, 2023-07-14 Artificial Intelligence AI has seen rapid advancements in recent years particularly in the areas of deep learning and the ability to generalize from concrete objects to abstract concepts Meanwhile in the study of machine consciousness a universally agreed definition among scientists and philosophers is still

lacking This book raises a number of issues surrounding the nature and implications of conscious artificial intelligence This edited volume consists of 10 chapters that highlight the prospects of machine consciousness and study the subject from several perspectives The issues are wide ranging and include topics such as the metaverse a computational approach to pain and suffering universal cognitive intelligence intentional action the categorization of conscious machines and more The volume is designed as a reference guide for researchers practitioners and students interested in the intersection of AI and consciousness

The Creation of a Conscious Machine Jean Tardy,2023-12-15 Describes seven novel variations of the Turing test Outlines an original definition of consciousness described as implementable specifications Introduces the concept of Mathematics as a genetically transmissible cognitive medium This book presents a groundbreaking journey into the world of Generative AI technology and offers an in depth look at the prospect of AI achieving consciousness The book navigates through various historical and modern perspectives on AI from ancient myths to the Turing Test to the latest in technological advancements It covers the theoretical and practical aspects of creating a conscious AI including the specifications for synthetic consciousness and the integration of AI with human cognition The book questions whether generative AI can meet the traditional criteria of consciousness and how this might be realized

[Models of the Self](#) Shaun Gallagher,Jonathan Shear,1999 A comprehensive reader on the problem of the self as seen from the perspectives of philosophy development psychology robotics cognitive neuroscience psychopathology semiotics phenomenology and contemplative studies all focused on a keynote paper

Consciousness And Robot Sentience (Second Edition) Pentti O Haikonen,2019-05-23 THIS BOOK is the fully revised and updated second edition of Consciousness and Robot Sentience With lots of new material it will provide new insights into artificial intelligence AI and machine consciousness beyond materials published in the first edition The organization of this book has been streamlined for better clarity and continuity of the lines of arguments The perspective of AI has been added to this edition It is shown that contemporary AI has a hidden problem which prevents it from becoming a true intelligent agent A self evident solution to this problem is given in this book This solution is surprisingly connected with the concepts of qualia the mind body problem and consciousness These are the hard problems of consciousness that so far have been without viable solution Unfortunately the solution to the hidden problem of AI cannot be satisfactorily implemented unless the phenomena of qualia and consciousness are first understood In this book an explanation of consciousness is presented one that rejects material and immaterial substances dualism panpsychism emergence and metaphysics What remains is obvious This explanation excludes consciousness in digital computers but allows the artificial creation of consciousness in one natural like way by associative non computational neural networks The proof of a theory calls for empirical verification In this case the proof could be in the form of a sentient robot This book describes a step towards this in the form of the author s small experimental robot XCR 1 This robot has evolved through the years and has now new cognitive abilities which are described

The View from Within Jonathan Shear,Francisco J. Varela,1999

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Encyclopedia of Consciousness William P.

Banks,2009-03-26 Consciousness has long been a subject of interest in philosophy and religion but only relatively recently has it become subject to scientific investigation Now more than ever before we are beginning to understand this mental state Developmental psychologists understand when we first develop a sense of self neuropsychologists see which parts of the brain activate when we think about ourselves and which parts of the brain control that awareness Cognitive scientists have mapped the circuitry that allows machines to have some form of self awareness and neuroscientists investigate similar circuitry in the human brain Research that once was separate inquiries in discreet disciplines is converging List serves and small conferences focused on consciousness are proliferating New journals have emerged in this field A huge number of monographs and edited treatises have recently been published on consciousness but there is no recognized entry point to the field no comprehensive summary This encyclopedia is that reference Organized alphabetically by topic coverage encompasses a summary of major research and scientific thought regarding the nature of consciousness the neural circuitry involved how the brain body and world interact and our understanding of subjective states The work includes contributions covering neuroscience psychology philosophy and artificial intelligence to provide a comprehensive backdrop to recent and ongoing investigations into the nature of conscious experience from a philosophical psychological and biological perspective

Mind as Machine Margaret A. Boden,2006 *Artificial Beings* Jacques Pitrat,2009-06-15 This book demonstrates that not only is it possible to create entities with both consciousness and conscience but that those entities demonstrate them in ways different from our own thereby showing a new kind of consciousness Consciousness in AI Raghurami Reddy Etukuru Ph.D.,2025-03-05 The remarkable advancements in artificial intelligence highlight humanity s ingenuity in replicating cognitive functions But a fundamental question remains Could AI one day transcend computation to attain consciousness Blending ancient philosophies cutting edge science and emerging AI theories this book delves into the enigmatic nature of consciousness and its intersection with technology From Alan Turing s foundational question Can machines think to the transformative possibilities of Quantum Field Theory consider questions such as How might AI evolve from simulating intelligence to achieving consciousness Can Vedantic and ancient Indian wisdom provide insights on consciousness in relation to AI Is consciousness a fundamental essence of the universe or a byproduct of the material brain Through the lens of neuroscience cognitive science and Integrated Information Theory the book investigates how conscious experience might arise in artificial systems It also explores how quantum mechanics and Quantum Field Theory support the idea that consciousness is more than a neurological phenomenon Delve into the interaction between universal consciousness and AI systems as well as the interaction between AI systems and the external world with Consciousness in AI

Philosophical Writings ,2003 Unbounded Consciousness Ming Singer,2001 The enigma of consciousness fascinates psychologists philosophers neuroscientists and physicists The author of this book is interested in the qualitative aspects of

consciousness known by the philosophical term qualia In this book she puts forward an original and integrative theory of consciousness that argues for the inseparability of qualitative and non qualitative aspects and for the restoration of the concept of psyche **Proceedings** ,2005 **Bibliographie de la philosophie** International Institute of Philosophy,2004

Leonardo ,2004 International journal of contemporary visual artists **The Mind, the Body and the World** Brendan Wallace,2007 Concerning the cognitive or information processing approach to psychology this book asks what it is how it originated and whether and how desirable it is to look for ways that go beyond it *The Philosophical Review* Jacob Gould Schurman,James Edwin Creighton, Frank Thilly, Gustavus Watts Cunningham,2003 **The Journal of Mental Science** ,1927

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