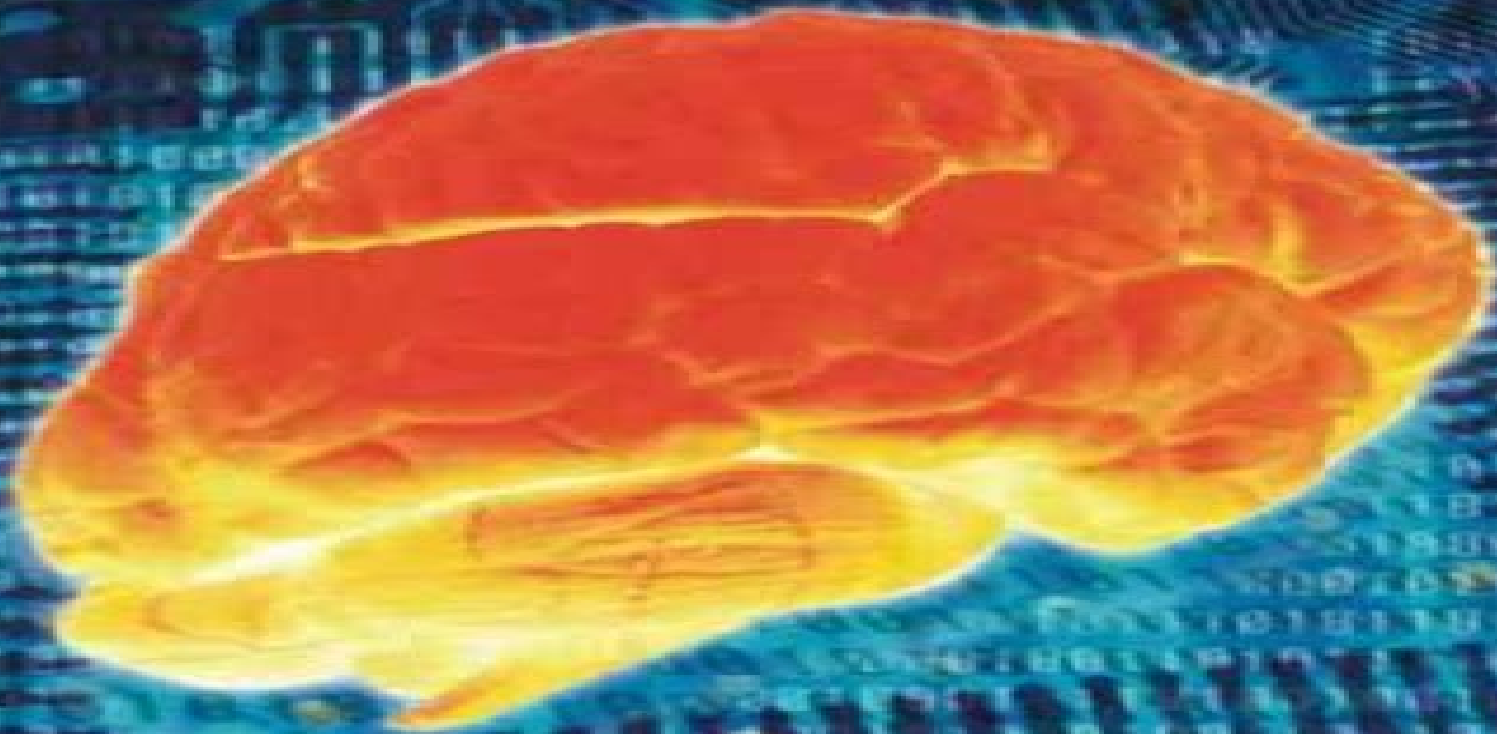# THE COGNITIVE APPROACH TO
CONSCIOUS MACHINES

Pentti O. Haikonen
Principal Scientist, Cognitive Technology, Nokia Research

The Cognitive Approach To Conscious Machines

Vassilis Cutsuridis,Amir Hussain,John G. Taylor

The Cognitive Approach To Conscious Machines:

   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   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   **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 Investigating the brain from the outside using brain scanning technology such as PET and fMRI bring great precision to results However examining the view from within the brain isn t so easy This book presents results of investigations that examines the conscious mind from the inside   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   Self, Culture and Consciousness Sangeetha Menon,Nithin Nagaraj,V. V. Binoy,2018-02-26 This volume brings together the primary challenges for 21st century cognitive sciences and cultural neuroscience in responding to the nature of human identity self and evolution of life itself Through chapters devoted to intricate but focused models empirical findings theories and experiential data the contributors reflect upon the most exciting possibilities and debate upon the fundamental aspects of consciousness and self in the context of cultural philosophical and multidisciplinary divergences and convergences Such an understanding and the ensuing insights lie in the cusp of philosophy neurosciences psychiatry and medical humanities In this volume the editors and contributors explore the foundations of human thinking and being and discuss both evolutionary cultural embeddedness and the self orientation of consciousness keeping in mind questions that bring in the interdisciplinary complexity of issues such as the emergence of consciousness relation between healing and agency models of altered self how cognition impacts the social self experiential primacy as the hallmark of consciousness and alternate epistemologies to understand these interdisciplinary puzzles   **Existence, Origin And Weird Technology: Exploring Humanity's Ultimate Questions** Pentti O Haikonen,2022-10-21 What are we humans and how did we become the high technology species What would be our legacy What is the ultimate meaning of life Many of these questions are still waiting for full and complete answers and explanations For thousands of years humans have pondered the fundamental questions about origin existence and reality and also about mind consciousness communication and social issues In this day and age when advancing technology is quickly transforming our societies and our ways of life these questions are more important than ever not only in the theoretical sense but also in

practice We have to understand what has happened and what is happening For the first time in the history technology has given us powerful means to investigate the phenomena behind the ultimate questions However technology is only a tool the thinking human is still required for the understanding of the world This book explores these curious topics beginning from the origin of the Universe to the emergence of life the evolution from cells to brains the development of cognitive ability from perception and attention to reasoning and thinking how we interact with other humans by means of love and emotion to the creation of thinking machines by weird technology THIS BOOK presents novel views on these questions and provides explanations and possible answers in an easy to read style **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
Recent Trends and Advances in Wireless and IoT-enabled Networks Mian Ahmad Jan,Fazlullah Khan,Muhammad Alam,2019-01-22 The book covers a variety of topics in Information and Communications Technology ICT and their impact on innovation and business The authors discuss various innovations business and industrial motivations and impact on humans and the interplay between those factors in terms of finance demand and competition Topics discussed include the convergence of Machine to Machine M2M Internet of Things IoT Social and Big Data They also discuss AI and its integration into technologies from machine learning predictive analytics security software to intelligent agents and many more Contributions come from academics and professionals around the world Covers the most recent practices in ICT related topics pertaining to technological growth innovation and business Presents a survey on the most recent technological areas revolutionizing how humans communicate and interact Features four sections IoT Wireless Ad Hoc Sensor Networks Fog Computing and Big Data Analytics *The Blackwell Companion to Consciousness* Susan Schneider,Max

Velmans,2017-05-08 Updated and revised the highly anticipated second edition of The Blackwell Companion to Consciousness offers a collection of readings that together represent the most thorough and comprehensive survey of the nature of consciousness available today Features updates to scientific chapters reflecting the latest research in the field Includes 18 new theoretical empirical and methodological chapters covering integrated information theory renewed interest in panpsychism and more Covers a wide array of topics that include the origins and extent of consciousness various consciousness experiences such as meditation and drug induced states and the neuroscience of consciousness Presents 54 peer reviewed chapters written by leading experts in the study of consciousness from across a variety of academic disciplines

Recent Advances on Soft Computing and Data Mining Rozaida Ghazali,Mustafa Mat Deris,Nazri Mohd Nawi,Jemal H. Abawajy,2018-01-11 This book offers a systematic overview of the concepts and practical techniques that readers need to get the most out of their large scale data mining projects and research studies It guides them through the data analytical thinking essential to extract useful information and obtain commercial value from the data Presenting the outcomes of International Conference on Soft Computing and Data Mining SCDM 2017 held in Johor Malaysia on February 6 8 2018 it provides a well balanced integration of soft computing and data mining techniques The two constituents are brought together in various combinations of applications and practices To thrive in these data driven ecosystems researchers engineers data analysts practitioners and managers must understand the design choice and options of soft computing and data mining techniques and as such this book is a valuable resource helping readers solve complex benchmark problems and better appreciate the concepts tools and techniques employed **Biomedical Engineering and Information Systems: Technologies, Tools and Applications** Shukla, Anupam,Tiwari, Ritu,2010-07-31 Bridging the disciplines of engineering and medicine this book informs researchers clinicians and practitioners of the latest developments in diagnostic tools decision support systems and intelligent devices that impact and redefine research in and delivery of medical services Provided by publisher Artificial Consciousness Antonio Chella,Riccardo Manzotti,2013-10-01 The book is interdisciplinary and focuses on the topic of artificial consciousness from neuroscience to artificial intelligence from bioengineering to robotics It provides an overview on the current state of the art of research in the field of artificial consciousness and includes extended and revised versions of the papers presented at the International Workshop on Artificial Consciousness held in November 2005 at Agrigento Italy **Intelligent Algorithms in Ambient and Biomedical Computing** Wim Verhaegh,Emile Aarts,Jan Korst,2006-09-09 The rapid growth in electronic systems in the past decade has boosted search in the area of computational intelligence As it has become increasingly easy to generate collect transport process and store huge amounts of data the role of intelligent algorithms has become prominent in order to visualize manipulate retrieve and interpret the data For instance intelligent search techniques have been developed to search for relevant items in huge collections of web pages and data mining and interpretation techniques play a very important role in making sense out of huge

amounts of biomolecular measu ments As a result the added value of many modern systems is no longer determined by hardware only but increasingly by the intelligent software that supports and facilitates the user in realizing his or her objectives Overthepastyears considerableprogresshasbeenmadeintheareaofc putational intelligence which can be positioned at the intersection of computer science discrete mathematics and cognitive science This has led to a gr ing community of practitioners within Philips Research that develop analyze and apply intelligent algorithms The Symposium on Intelligent Algorithms SOIA intends to provide this community of practitioners with a platform to exchange information The rst edition of SOIA held in 2002 addressed the topic of intelligent algorithms in ambient intelligence   Impossible Minds: My Neurons, My Consciousness (Revised Edition) Igor Aleksander,2014-12-18 Impossible Minds My Neurons My Consciousness has been written to satisfy the curiosity each and every one of us has about our own consciousness It takes the view that the neurons in our heads are the source of consciousness and attempts to explain how this happens Although it talks of neural networks it explains what they are and what they do in such a way that anyone may understand While the topic is partly philosophical the text makes no assumptions of prior knowledge of philosophy and so contains easy excursions into the important ideas of philosophy that may be missing in the education of a computer scientist The approach is pragmatic throughout there are many references to material on experiments that were done in our laboratories The first edition of the book was written to introduce curious readers to the way that the consciousness we all enjoy might depend on the networks of neurons that make up the brain In this second edition it is recognized that these arguments still stand but that they have been taken much further by an increasing number of researchers A post script has now been written for each chapter to inform the reader of these developments and provide an up to date bibliography A new epilogue has been written to summarize the state of the art of the search for consciousness in neural automata for researchers in computation students of philosophy and anyone who is fascinated by what is one of the most engaging scientific endeavours of the day This book also tells a story A story of a land where people think that they are automata without much in the way of consciousness a story of cormorants and cliffs by the sea a story of what it might be like to be a conscious machine   **Reductive Model of the Conscious Mind** Galus, Wieslaw,Starzyk, Janusz,2020-08-21 Research on natural and artificial brains is proceeding at a rapid pace However the understanding of the essence of consciousness has changed slightly over the millennia and only the last decade has brought some progress to the area Scientific ideas emerged that the soul could be a product of the material body and that calculating machines could imitate brain processes However the authors of this book reject the previously common dualism the view that the material and spiritual psychic processes are separate and require a completely different substance as their foundation Reductive Model of the Conscious Mind is a forward thinking book wherein the authors identify processes that are the essence of conscious thinking and place them in the imagined simplified structure of cells able to memorize and transmit information in the form of impulses which they call neurons The purpose of the study is to explain the essence of

consciousness to the degree of development of natural sciences because only the latter can find a way to embed the concept of the conscious mind in material brains The book is divided into three parts Part 1 works to convince readers that the emergence of consciousness does not require detailed knowledge of the structure and morphology of the brain with the exception of some specific properties of the neural network structure that the authors attempt to point out Part 2 proves that the biological structure of many natural brains fulfills the necessary conditions for consciousness and intelligent thinking Similarly Part 3 shows the ways in which artificial creatures imitating natural brains can meet these conditions which gives great hopes for building artificially intelligent beings endowed with consciousness Covering topics that include cognitive architecture the embodied mind and machine learning this book is ideal for cognitive scientists philosophers of mind neuroscientists psychologists researchers academicians and advanced level students The book can also help to focus the research of linguists neurologists and biophysicists on the biophysical basis of postulated information processing into knowledge structures *Medical Informatics: Concepts, Methodologies, Tools, and Applications* Tan, Joseph,2008-09-30 Provides a collection of medical IT research in topics such as clinical knowledge management medical informatics mobile health and service delivery and gene expression *Visions of Mind* Darryl N. Davis,2005-01-01 What is mind Can we build synthetic or artificial minds Think these questions are only reserved for Science Fiction Well not anymore This collection presents a diverse overview of where the development of artificial minds is as the twenty first century begins Examined from nearly all viewpoints Visions of Mind includes perspectives from philosophy psychology cognitive science social studies and artificial intelligence This collection comes largely as a result of many conferences and symposiums conducted by many of the leading minds on this topic At the core is Professor Aaron Sloman s symposium from the spring 2000 UK Society for Artificial Intelligence conference Authors from that symposium as well as others from around the world have updated their perspectives and contributed to this powerful book The result is a multi disciplinary approach to the long term problem of designing a human like mind whether for scientific social or engineering purposes The topics addressed within this text are valuable to both artificial intelligence and cognitive science and also to the academic disciplines that they draw on and feed Among those disciplines are philosophy computer science and psychology *Machine Ethics* Michael Anderson,Susan Leigh Anderson,2011-05-09 The new field of machine ethics is concerned with giving machines ethical principles or a procedure for discovering a way to resolve the ethical dilemmas they might encounter enabling them to function in an ethically responsible manner through their own ethical decision making Developing ethics for machines in contrast to developing ethics for human beings who use machines is by its nature an interdisciplinary endeavor The essays in this volume represent the first steps by philosophers and artificial intelligence researchers toward explaining why it is necessary to add an ethical dimension to machines that function autonomously what is required in order to add this dimension philosophical and practical challenges to the machine ethics project various approaches that could be considered in attempting to add an ethical dimension to

machines work that has been done to date in implementing these approaches and visions of the future of machine ethics research **Perception-Action Cycle** Vassilis Cutsuridis,Amir Hussain,John G. Taylor,2011-02-02 The perception action cycle is the circular flow of information that takes place between the organism and its environment in the course of a sensory guided sequence of behaviour towards a goal Each action causes changes in the environment that are analyzed bottom up through the perceptual hierarchy and lead to the processing of further action top down through the executive hierarchy toward motor effectors These actions cause new changes that are analyzed and lead to new action and so the cycle continues The Perception action cycle Models architectures and hardware book provides focused and easily accessible reviews of various aspects of the perception action cycle It is an unparalleled resource of information that will be an invaluable companion to anyone in constructing and developing models algorithms and hardware implementations of autonomous machines empowered with cognitive capabilities The book is divided into three main parts In the first part leading computational neuroscientists present brain inspired models of perception attention cognitive control decision making conflict resolution and monitoring knowledge representation and reasoning learning and memory planning and action and consciousness grounded on experimental data In the second part architectures algorithms and systems with cognitive capabilities and minimal guidance from the brain are discussed These architectures algorithms and systems are inspired from the areas of cognitive science computer vision robotics information theory machine learning computer agents and artificial intelligence In the third part the analysis design and implementation of hardware systems with robust cognitive abilities from the areas of mechatronics sensing technology sensor fusion smart sensor networks control rules controllability stability model knowledge representation and reasoning are discussed

Unveiling the Magic of Words: A Overview of "**The Cognitive Approach To Conscious Machines**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**The Cognitive Approach To Conscious Machines**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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