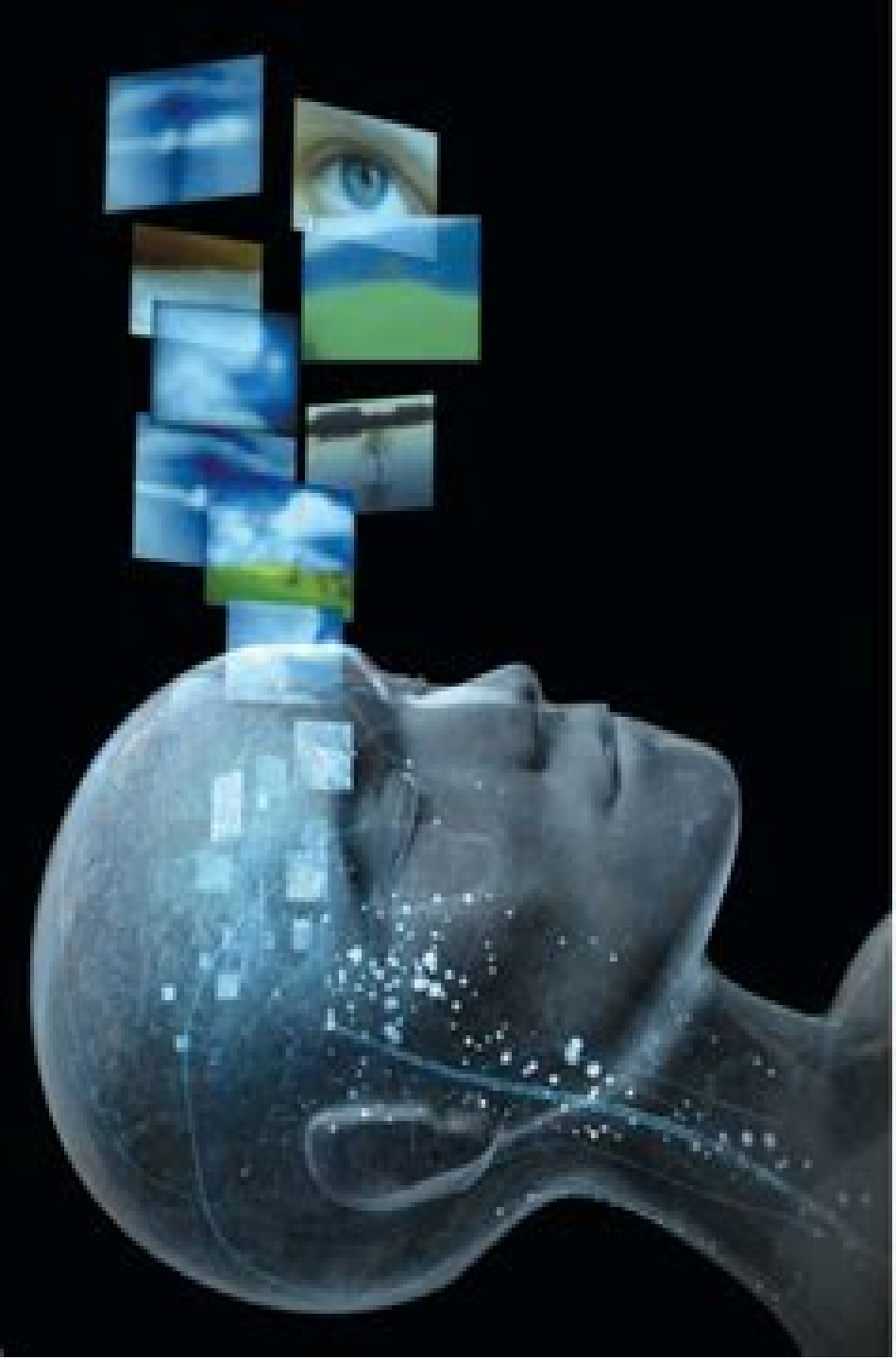

Can Machines Be Conscious?

YES—AND A NEW TURING TEST MIGHT PROVE IT

BY CHRISTOF KOCH AND GIULIO TONONI

WOULD YOU SELL your soul on eBay? Right now, of course, you can't. But in some quarters it is taken for granted that within a generation, human beings—including you, if you can hang on for another 30 years or so—will have an alternative to death: being a ghost in a machine. You'll be able to upload your mind—your thoughts, memories, and personality—to a computer. And once you've reduced your consciousness to patterns of electrons, others will be able to copy it, edit it, sell it, or pirate it. It might be bundled with other electronic minds. And, of course, it could be deleted.

That's quite a scenario, considering that at the moment, nobody really knows exactly what consciousness is. Proved for a pithy definition, we might call it the ineffable and enigmatic inner life of the mind. But that hardly captures the whirl of thought and sensation that blossoms when you see a lovely one after a long absence, hear an engaging violin solo, or relish an incredible meal. Some of the most brilliant minds in human history have pondered consciousness, and after a few thousand years we still can't say for sure if it is an intangible phenomenon or maybe even a kind of substance different from matter. We know it arises in the brain, but we don't know how or where in the brain. We don't even know if it requires specialized brain cells for sensation or some sort of special circuit arrangement of them.

Nevertheless, some in the singularity crowd are confident that we are within a few decades of building a computer, a simulacrum, that can experience the color red, savor the smell of a rose, feel pain and pleasure, and fall in love. It might be a robot with a "body." Or it might just be software—a huge, ever-changing cloud of bits that inhabit an immensely complicated and elaborately constructed virtual domain.

We are among the few neuroscientists who have devoted a substantial part of their careers to studying consciousness. Our work has given us a unique perspective on what is arguably the most momentous issue in all of technology: whether consciousness will ever be artificially created.

We think it will—eventually. But perhaps not in the way that the most popular scenarios have envisioned it.

CONSCIOUSNESS IS PART of the natural world. It depends, we believe, only on mathe-

The Cognitive Approach To Conscious Machines

Muh Anshar

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 *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 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 **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 *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 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 **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 **Consciousness and Robot Sentience** Pentti O. Haikonen,2012 Robots are becoming more human but could they also become sentient and have human like consciousness What is consciousness exactly It is a fact that our thoughts and consciousness are based on the neural activity of the brain It is also a fact that we do not perceive our brain activity as it really is OCo patterns of neural firings Instead we perceive our sensations and thoughts apparently as they are What kind of condition would transform the neural activity into this kind of internal appearance This is the basic problem of consciousness The author proposes an explanation that also provides preconditions for true conscious cognition OCo the requirement of a direct perceptive system with inherent sub symbolic and symbolic information processing Associative neural information processing with distributed signal representations is introduced as a method that satisfies these requirements Conscious robot cognition also calls for information integration and sensorimotor integration This requirement is satisfied by the Haikonen Cognitive Architecture HCA This book demystifies both the enigmatic philosophical issues of consciousness and the practical engineering issues of conscious robots by presenting them in an easy to understand manner for the benefit of students researchers philosophers and engineers in the field 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 Mind as Machine Margaret A. Boden,2006 **Philosophical Writings** ,2003 **Hardwiring Robot Empathy through Generation of Artificial Pain** Muh Anshar,2019-09-23 Doctoral Thesis Dissertation from the year 2017 in the subject Engineering Robotics University of Technology Sydney course Philosophy Degree language English abstract The application and use of robots in various areas of human life have been growing since the advent of robotics and as a result an increasing number of collaboration tasks are taking place During a collaboration humans and robots typically interact through a physical medium and it is likely that as more interactions occur the possibility for humans to experience pain will increase It is therefore of primary importance that robots should be capable of understanding the human concept of pain and to react to that understanding However studies reveal that the concept of human pain is strongly related to the complex structure of the human nervous system and the concept of Mind which includes concepts of Self Awareness and Consciousness Thus developing an appropriate concept of pain for robots must incorporate the concepts of Self Awareness and Consciousness Our approach is firstly to acquire an appropriate concept of self awareness as the basis for a robot framework Secondly it is

to develop an internal capability for a framework for the internal state of the mechanism by inferring information captured through internal and external perceptions Thirdly to conceptualise an artificially created pain classification in the form of synthetic pain which mimics the human concept of pain Fourthly to demonstrate the implementation of synthetic pain activation on top of the robot framework using a reasoning approach in relation to past current and future predicted conditions Lastly our aim is to develop and demonstrate an empathy function as a counter action to the kinds of synthetic pain being generated The framework allows robots to develop self consciousness by focusing attention on two primary levels of self namely subjective and objective Once implemented we report the results and provide insights from novel experiments designed to measure whether a robot is capable of shifting its self consciousness using information obtained from exteroceptive and proprioceptive sensory perceptions We consider whether the framework can support reasoning skills that allow the robot to predict and generate an accurate pain acknowledgement and at the same time develop appropriate counter responses Our experiments are designed to evaluate synthetic pain classification and the results show that the robot is aware of its internal state through the ability to predict its joint motion and produce appropriate artificial pain generation

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 **The Philosophical Review** Jacob Gould Schurman,James Edwin Creighton,Frank Thilly,Gustavus Watts Cunningham,2003 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 **IEEE ... International Conference on Neural Networks** ,1994 **The Journal of Mental Science** ,1927

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