

CONSCIOUSNESS AND THE COMPUTATIONAL MIND

Ray Jackendoff

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Consciousness And The Computational Mind

**Dylan van der Schyff, Andrea
Schiavio, David J. Elliott**



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The Extent to which 'Consciousness' poses a problem for the Computational Theory of Mind Sebastian A.

Wagner,2011-04-19 Essay from the year 2008 in the subject Psychology General grade 1 7 University of Derby Institut f r Psychologie course Cognitive Psychology language English abstract In Psychology many theories and models use process charts resembling circuit diagrams of technical devices In this account human behaviour and experience appears to be the result of processes taking place in the black box named cognition In this context computationalism is the view that computation can offer an explanatory basis for cognition Davenport 2008 p 1 The Computational Theory of Mind CTM has developed on this foundation attempting to reveal what is inside this black box In contrast human consciousness being a part of cognition Harnad 1994 seems to be beyond any scientific explanation This essay will critically discuss the extent to which consciousness poses a problem for the CTM regarding issues surrounding consciousness as an area of scientific study the extent to which consciousness is explicable in computational terms explanations of consciousness and Dennett s 1991 different account to consciousness It will be argued that consciousness does pose a major problem for the CTM especially when it is conceptualised as subjective experience It will conclude that Cognitive Science should presently focus only on certain aspects of consciousness called the easy problems

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Jackendoff,Ray S. Jackendoff,1990-09-01 Examining one of the fundamental issues in cognitive psychology How does our conscious experience come to be the way it is

The Extent to Which 'Consciousness' Poses a Problem for the Computational Theory of Mind Sebastian A. Wagner,2011-04 Essay from the year 2008 in the subject Psychology General grade 1 7 University of Derby Institut f r Psychologie course Cognitive Psychology language English abstract In Psychology many theories and models use process charts resembling circuit diagrams of technical devices In this account human behaviour and experience appears to be the result of processes taking place in the black box named cognition In this context computationalism is the view that computation can offer an explanatory basis for cognition Davenport 2008 p 1 The Computational Theory of Mind CTM has developed on this foundation attempting to reveal what is inside this black box In contrast human consciousness being a part of cognition Harnad 1994 seems to be beyond any scientific explanation This essay will critically discuss the extent to which consciousness poses a problem for the CTM regarding issues surrounding consciousness as an area of scientific study the extent to which consciousness is explicable in computational terms explanations of consciousness and Dennett s 1991 different account to consciousness It will be argued that consciousness does pose a major problem for the CTM especially when it is conceptualised as subjective experience It will conclude that Cognitive Science should presently focus only on certain aspects of consciousness called the easy problems

Computational Mind: A Complex Dynamics Perspective Vladimir G. Ivancevic,Tijana T. Ivancevic,2007-06-12 This is a graduate level monographic textbook in the field of Computational Intelligence It presents a modern dynamical theory of the

computational mind combining cognitive psychology artificial and computational intelligence and chaos theory with quantum consciousness and computation The book introduces to human and computational mind comparing and contrasting main themes of cognitive psychology artificial and computational intelligence

Consciousness, Cognitive Schemata, and Relativism M. Kamppinen, 2013-03-09 This series includes monographs and collections of studies devoted to the investigation and exploration of knowledge information and data processing systems of all kinds no matter whether human other animal or machine Its scope spans the full range of interests from classical problems in the philosophy of mind and philosophical psychology through issues in cognitive psychology and sociobiology concerning the mental powers of other species to ideas related to artificial intelligence and computer science While primary emphasis is placed upon theoretical conceptual and epistemological aspects of these problems and domains empirical experimental and methodological studies will also appear from time to time This multi authored volume provides investigations that fall into three broad areas of inquiry In Part I Antti Revonsuo reviews and evaluates contemporary discussions of the nature of consciousness In Part II Matti Kamppinen explores methodological issues distinguishing between intentional and structural explanations In Part III Seppo Sajama and Simo Vihjanen consider whether humans ever have direct access to reality in Section A while Matti Kamppinen and Antti Revonsuo explore the consequences of the claim that our knowledge of reality is conceptually mediated in Section B These studies combine to provide a stimulating exploration of cognitive science that should appeal to students and to scholars alike

J H F vii PREFACE BY THE EDITOR The purpose of the book is to illustrate how empirical and conceptual problems interact in modern cognitive science We argue that several topics discussed in contemporary research have long historical roots in philosophy

Consciousness Studies K. Ramakrishna Rao, 2015-09-17 Consciousness is perplexing too familiar and intimate to ignore too complex and elusive to understand Although consciousness is embedded in all our experience and is considered basic to all our knowing no one seems to know what exactly it is and the concept is both widely used and much abused For the better part of the twentieth century the study of consciousness was viewed as unworthy of scholarly and scientific pursuit Research has consequently suffered This cross cultural examination first explores the varieties of conscious experience and reflects on the attempts to understand and explain consciousness in the Western scholarly and scientific tradition The next section deals with Eastern spiritual traditions and how they differ with and complement the Western viewpoints In the final chapters the author reconciles the two traditions for a comprehensive understanding of what consciousness is and considers how such an understanding may be helpful for a cross cultural assessment of behavior as well as for enhancing human abilities and wellness

Genes Vs Cultures Vs Consciousness Andres Campero, 2019-06-19 This interdisciplinary scientific short book explores the mind at a conceptual level It touches on its evolutionary development its algorithmic nature and its scientific history by bridging ideas across Neuroscience Computer Science Biotechnology Evolutionary History Cognitive Science Political Philosophy and Artificial Intelligence Never before

had there been nearly as many scientists resources or productive research focused on these topics and humanity has achieved some understanding and some clarification With the speed of progress it is timely to communicate an overreaching perspective this book puts an emphasis on conveying the essential questions and what we know about their answers in a simple clear and exciting way Humans along with the first RNA molecules the first life forms the first brains the first conscious animals the first societies and the first artificial agents constitute an amazing and crucial development in a path of increasingly complex computational intelligence And yet we occupy a minuscule time period in the history of Earth a history that has been written by Genes by Cultures and by Consciousnesses If we abandon our anthropomorphic bias it becomes obvious that Humans are not so special after all We are an important but short and transitory step among many others in a bigger story The story of our computational minds which is ours but not only ours What is the relationship between computation cognition and everything else What is life and how did it originate What is the role of culture in human minds What do we know about the algorithmic nature of the mind can we engineer it What is the computational explanation of consciousness What are some possible future steps in the evolution of minds The underlying thread is the computational nature of the Mind which results from the mixture of Genes Cultures and Consciousness While these three interact in complex ways they are ultimately computational systems on their own which appeared at different stages of history and which follow their own selective processes operating at different time scales As technology progresses the distinction between the three components materializes and will be a key determinant of the future Among the many topics covered are the origin of life the concept of computation and its relation to Turing Machines cultural evolution and the notion of a Selfish Meme free will and determinism moral relativity the hard problem of consciousness the different theories of concepts from the perspective of cognitive science the current status of AI and Machine Learning including the symbolic vs sub symbolic dichotomy the contrast between logical reasoning and neural networks and the recent history of Deep Learning Geoffrey Hinton DeepMind and its algorithm AlphaGo It also develops on the history of science and looks into the possible future building on the work of authors like Daniel Dennett Yuval Harari Richard Dawkins Francis Crick George Church David Chalmers Susan Carey Stanislas Dehaene Robert Boyd Joseph Henrich Daniel Kahneman Moran Cerf Josh Tenenbaum David Deutsch Steven Pinker Ray Kurzweil John von Neumann Herbert Simon and many more Andres Campero is a researcher and PhD student at the Brain and Cognitive Sciences Department and at the Computer Science and Artificial Intelligence Laboratory at the Massachusetts Institute of Technology MIT Note from the author I think this book is genuinely insightful and fun and that its story is extremely important My objective with self publishing is not to make money in case that is an issue I am happy to return you the earnings just contact me at andrescampero mit edu Your purchase would still be helpful for Amazon s search engine

Consciousness in Philosophy and Cognitive Neuroscience Antti Revonsuo, Matti Kamppinen, 2013-06-17 Consciousness seems to be an enigmatic phenomenon it is difficult to imagine how our perceptions of

the world and our inner thoughts sensations and feelings could be related to the immensely complicated biological organ we call the brain This volume presents the thoughts of some of the leading philosophers and cognitive scientists who have recently participated in the discussion of the status of consciousness in science The focus of inquiry is the question Is it possible to incorporate consciousness into science Philosophers have suggested different alternatives some think that consciousness should be altogether eliminated from science because it is not a real phenomenon others that consciousness is a real higher level physical or neurobiological phenomenon and still others that consciousness is fundamentally mysterious and beyond the reach of science At the same time however several models or theories of the role of conscious processing in the brain have been developed in the more empirical cognitive sciences It has been suggested that non conscious processes must be sharply separated from conscious ones and that the necessity of this distinction is manifested in the curious behavior of certain brain damaged patients This book demonstrates the dialogue between philosophical and empirical points of view The writers present alternative solutions to the brain consciousness problem and they discuss how the unification of biological and psychological sciences could thus become feasible Covering a large ground this book shows how the philosophical and empirical problems are closely interconnected From this interdisciplinary exploration emerges the conviction that consciousness can and should be a natural part of our scientific world view

Embodied Minds in Action
Robert Hanna,Michelle Maiese,2009-01-08 In Embodied Minds in Action Robert Hanna and Michelle Maiese work out a unified treatment of three fundamental philosophical problems the mind body problem the problem of mental causation and the problem of action This unified treatment rests on two basic claims The first is that conscious intentional minds like ours are essentially embodied This entails that our minds are necessarily spread throughout our living organismic bodies and belong to their complete neurobiological constitution So minds like ours are necessarily alive The second claim is that essentially embodied minds are self organizing thermodynamic systems This entails that our mental lives consist in the possibility and actuality of moving our own living organismic bodies through space and time by means of our conscious desires The upshot is that we are essentially minded animals who help to create the natural world through our own agency This doctrine the Essential Embodiment Theory is a truly radical idea which subverts the traditionally opposed and seemingly exhaustive categories of Dualism and Materialism and offers a new paradigm for contemporary mainstream research in the philosophy of mind and cognitive neuroscience

Computing the Mind Shimon Edelman,2008-09-08 In a culmination of humanity s millennia long quest for self knowledge the sciences of the mind are now in a position to offer concrete empirically validated answers to the most fundamental questions about human nature What does it mean to be a mind How is the mind related to the brain How are minds shaped by their embodiment and environment What are the principles behind cognitive functions such as perception memory language thought and consciousness By analyzing the tasks facing any sentient being that is subject to stimulation and a pressure to act Shimon Edelman identifies computation as the common

denominator in the emerging answers to all these questions Any system composed of elements that exchange signals with each other and occasionally with the rest of the world can be said to be engaged in computation A brain composed of neurons is one example of a system that computes and the computations that the neurons collectively carry out constitute the brain's mind Edelman presents a computational account of the entire spectrum of cognitive phenomena that constitutes the mind He begins with sentience and uses examples from visual perception to demonstrate that it must at its very core be a type of computation Throughout his account Edelman acknowledges the human mind's biological origins Along the way he also demystifies traits such as creativity language and individual and collective consciousness and hints at how naturally evolved minds can transcend some of their limitations by moving to computational substrates other than brains The account that Edelman gives in this book is accessible yet unified and rigorous and the big picture he presents is supported by evidence ranging from neurobiology to computer science The book should be read by anyone seeking a comprehensive and current introduction to cognitive psychology

Musical Bodies, Musical Minds Dylan van der Schyff, Andrea Schiavio, David J. Elliott, 2022-08-30 An enactive account of musicality that proposes new ways of thinking about musical experience musical development in infancy music and evolution and more Musical Bodies Musical Minds offers an innovative account of human musicality that draws on recent developments in embodied cognitive science The authors explore musical cognition as a form of sense making that unfolds across the embodied environmentally embedded and sociomaterially extended dimensions that compose the enactment of human worlds of meaning This perspective enables new ways of understanding musical experience the development of musicality in infancy and childhood music's emergence in human evolution and the nature of musical emotions empathy and creativity Developing their account the authors link a diverse array of ideas from fields including neuroscience theoretical biology psychology developmental studies social cognition and education Drawing on these insights they show how dynamic processes of adaptive body brain environment interactivity drive musical cognition across a range of contexts extending it beyond the personal inner domain of musical agents and out into the material and social worlds they inhabit and influence An enactive approach to musicality they argue can reveal important aspects of human being and knowing that are often lost or obscured in the modern technologically driven world

Sex, Ecology, Spirituality Ken Wilber, 2001-01-02 Hailed as one of the most significant books ever published this work of far reaching vision is a comprehensive exploration of the evolution of human consciousness In this tour de force of scholarship and vision Ken Wilber traces the course of evolution from matter to life to mind and describes the common patterns that evolution takes in all three of these domains From the emergence of mind he traces the evolution of human consciousness through its major stages of growth and development Wilber particularly focuses on modernity and postmodernity what they mean how they impact gender issues psychotherapy ecological concerns and various liberation movements and how the modern and postmodern world conceive of Spirit This second edition features forty pages of new material new diagrams and extensively

revised notes Consciousness and Learning Research Susan K. Turrini,2007 Consciousness is a quality of the mind generally regarded to comprise such as subjectivity self awareness sentience sapience and the ability to perceive the relationship between oneself and one s environment It is a subject of much research in philosophy of mind psychology neurology and cognitive science This book gathers a compilation of new and significant research on many facets of consciousness research These include memory studies evolution of consciousness paranormal experiences phenomenal consciousness meditation human emotion and psychopathology **Consciousness, Function, and Representation** Ned Joel Block,2007 The first of a planned two volume collection of Ned Block s writings on philosophy of mind this volume treats consciousness functionalism and representation and can be regarded as Block s most complete statement of his positions on consciousness *The Computational Theory of Mind* Matteo Colombo,Gualtiero Piccinini,2023-12-07 The Computational Theory of Mind says that the mind is a computing system It has a long history going back to the idea that thought is a kind of computation Its modern incarnation relies on analogies with contemporary computing technology and the use of computational models It comes in many versions some more plausible than others This Element supports the theory primarily by its contribution to solving the mind body problem its ability to explain mental phenomena and the success of computational modelling and artificial intelligence To be turned into an adequate theory it needs to be made compatible with the tractability of cognition the situatedness and dynamical aspects of the mind the way the brain works intentionality and consciousness A Neurocomputational Perspective Paul M. Churchland,1992 A Bradford book Includes index Bibliography p 305 313 *The Interplay of Consciousness and Concepts* Rocco J. Gennaro,2007 Longstanding issues concerning a proper theory of the structure of concepts are tackled in this collection of essays by Simon Baron Cohen Peter Carruthers and a distinguished cast of other scientists and philosophers **The Many Faces of Consciousness** Güven Güzeldere,1997 Consciousness Giuseppe Trautteur,1995 *Experimental and Theoretical Studies of Consciousness* CIBA Foundation Symposium,1993-04-27 Discusses the various theories of consciousness from different perspectives psychological neurophysiological and philosophical Theories regarding the interaction of pain schizophrenia the brain and the nervous system with consciousness are included Also includes a discussion of the relative merits of the different theories together with the latest data from the experimental disciplines

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