

Machine Consciousness Journal Of Consciousness Studies

Machine Consciousness

Can a machine really have feelings? In this collection of essays an international array of computer and brain scientists who are actively working from both the machine and human ends of things to bridge the gap between the mind and the machine speak their minds.

Artificial Consciousness

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).

Human and Machine Consciousness

Consciousness is widely perceived as one of the most fundamental, interesting and difficult problems of our time. However, we still know next to nothing about the relationship between consciousness and the brain and we can only speculate about the consciousness of animals and machines. Human and Machine Consciousness presents a new foundation for the scientific study of consciousness. It sets out a bold interpretation of consciousness that neutralizes the philosophical problems and explains how we can make scientific predictions about the consciousness of animals, brain-damaged patients and machines. Gamez interprets the scientific study of consciousness as a search for mathematical theories that map between measurements of consciousness and measurements of the physical world. We can use artificial intelligence to discover these theories and they could make accurate predictions about the consciousness of humans, animals and artificial systems. Human and Machine Consciousness also provides original insights into unusual conscious experiences, such as hallucinations, religious experiences and out-of-body states, and demonstrates how 'designer' states of consciousness could be created in the future. Gamez explains difficult concepts in a clear way that closely engages with scientific research. His punchy, concise prose is packed with vivid examples, making it suitable for the educated general reader as well as philosophers and scientists. Problems are brought to life in colourful illustrations and a helpful summary is given at the end of each chapter. The endnotes provide detailed discussions of individual points and full references to the scientific and philosophical literature.

Consciousness

Is there a theory that explains the essence of consciousness? Or is consciousness itself just an illusion? The 'last great mystery of science', consciousness is a topic that was banned from serious research for most of the last century, but is now an area of increasing popular interest, as well as a rapidly expanding area of study for

students of psychology, philosophy and neuroscience. This ground-breaking textbook by best-selling author Susan Blackmore was the first of its kind to bring together all the major theories of consciousness studies, from those based on neuroscience to those based on quantum theory or Eastern philosophy. The book examines topics such as how subjective experiences arise from objective brain processes, the basic neuroscience of consciousness, altered states of consciousness, out of body and near death experiences and the effects of drugs, dreams and meditation. It also explores the nature of self, the possibility of artificial consciousness in robots, and the question of whether animals are conscious. The new edition has been fully revised to include the latest developments in neuroscience, brain scanning techniques, and artificial consciousness and robotics. The new website includes self-assessment exercises, advanced further reading, flashcards and MCQs. For all those intrigued by what it means to be, to exist, this book could radically transform your understanding of your own consciousness.

The Cognitive Approach to Conscious Machines

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.

Human and Machine Consciousness

"Consciousness is widely perceived as one of the most fundamental, interesting and difficult problems of our time. However, we still know next to nothing about the relationship between consciousness and the brain and we can only speculate about the consciousness of animals and machines. Human and Machine Consciousness presents a new foundation for the scientific study of consciousness. It sets out a bold interpretation of consciousness that neutralizes the philosophical problems and explains how we can make scientific predictions about the consciousness of animals, brain-damaged patients and machines. Gamez interprets the scientific study of consciousness as a search for mathematical theories that map between measurements of consciousness and measurements of the physical world. We can use artificial intelligence to discover these theories and they could make accurate predictions about the consciousness of humans, animals and artificial systems. Human and Machine Consciousness also provides original insights into unusual conscious experiences, such as hallucinations, religious experiences and out-of-body states, and demonstrates how 'designer' states of consciousness could be created in the future. Gamez explains difficult concepts in a clear way that closely engages with scientific research. His punchy, concise prose is packed with vivid examples, making it suitable for the educated general reader as well as philosophers and scientists. Problems are brought to life in colourful illustrations and a helpful summary is given at the end of each chapter. The endnotes provide detailed discussions of individual points and full references to the scientific and philosophical literature."

--Publisher's website.

The Singularity

Volume combining two special issues of the Journal of Consciousness Studies on the philosophical aspects of a possible artificial intelligence singularity.

Consciousness

Consciousness is arguably the most important interdisciplinary area in contemporary philosophy of mind, with an explosion of research over the past thirty years from philosophers, psychologists, and scientists. It is also perhaps the most puzzling aspect of the world despite the fact that it is familiar to each of us. Consciousness also seems resistant to any straightforward physical explanation. This book introduces readers to the contemporary problem of consciousness, providing a clear introduction to the overall landscape and a fair-minded critical survey of various theories of consciousness. Beginning with essential historical background to the problem of consciousness, Rocco Gennaro explores the following key topics and debates: the metaphysical problem of consciousness, including varieties of dualism and materialism; consciousness and neuroscience, particularly the question of whether consciousness can be reduced to brain activity or attentional mechanisms; representational and cognitive theories of consciousness; consciousness and psychopathology; animals, machines, and consciousness. Extensive use is made of interesting phenomena throughout the book, ranging from blindsight, synaesthesia, and change blindness to phantom limb syndrome, split-brain cases, and dissociative identity disorder (DID). The inclusion of chapter summaries, annotated further reading, and a glossary make this book essential reading for anyone seeking a clear and informative overview of the problem of consciousness, not only in philosophy but related fields such as psychology and cognitive science.

The Singularity

This volume represents the combination of two special issues of the Journal of Consciousness Studies on the topic of the technological singularity. Could artificial intelligence really out-think us, and what would be the likely repercussions if it could? Leading authors contribute to the debate, which takes the form of a target chapter by philosopher David Chalmers, plus commentaries from the likes of Daniel Dennett, Nick Bostrom, Ray Kurzweil, Ben Goertzel, Frank Tipler, among many others. Chalmers then responds to the commentators to round off the discussion.

Consciousness And Robot Sentience (Second Edition)

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.

Consciousness in Humanoid Robots

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.

Regaining Consciousness

The last decade has seen a flurry of excitement among workers in neurobiology, cognitive science, Artificial Intelligence, analytic philosophy, and evolutionary psychology over the prospects of reaching a scientific understanding of consciousness. Is this effort likely to be successful or not? Your answer most likely depends on your philosophical commitments, something that you probably don't question or think much about. In this provocative work, psychiatrist Frank Broucek takes a critical look at the taken-for-granted presuppositions underlying the scientific worldview to assess their adequacy for providing a valid framework for the understanding of consciousness. He explores the many problems that face scientific materialism when it comes to understanding our mental life. One such problem is trying to separate what can only be distinguished, such as subject/object, consciousness/world, organism/environment. Broucek takes the reader through an exciting review of some of the recent literature on the brain and consciousness, Darwinian evolutionary theory, and the prospects of conscious machines. Whether you agree with him or not, you will find his excursion into the field of consciousness studies an intellectual tour de force with important spiritual implications.

The Singularity

This volume represents the combination of two special issues of the Journal of

Consciousness Studies on the topic of the technological singularity. Could artificial intelligence really out-think us, and what would be the likely repercussions if it could? Leading authors contribute to the debate, which takes the form of a target chapter by philosopher David Chalmers, plus commentaries from the likes of Daniel Dennett, Nick Bostrom, Ray Kurzweil, Ben Goertzel, Frank Tipler, among many others. Chalmers then responds to the commentators to round off the discussion.

From Biological to Artificial Consciousness

How does consciousness emerge from a brain that consists only of physical matter and electrical / chemical reactions? The deep mysteries of consciousness have plagued philosophers and scientists for thousands of years. This book approaches the problem through scientific studies that shed light on the neural mechanism of consciousness, and furthermore, delves into the possibility of artificial consciousness, a phenomenon that may ultimately solve the mystery. Finally, two key suggestions made in the book, namely, a method to test machine consciousness and a theory hypothesizing that consciousness emerges from a neural algorithm, reveal a novel and credible pathway to mind-uploading. The original Japanese version of this book has become a best-seller in popular neuroscience and has even led to a neurotech startup for mind-uploading.

The Emergence of Consciousness

A collection of essays on the relation between the conscious mind and the body. In this text, philosopher Robert Van Gulick gives a clear overview and comparison on "emergent" and "reductive" approaches, while others discuss more detailed aspects.

Reclaiming Cognition

Traditional cognitive science is Cartesian in the sense that it takes as fundamental the distinction between the mental and the physical, the mind and the world. This leads to the claim that cognition is representational and best explained using models derived from AI and computational theory. The authors depart radically from this model.

Is Consciousness Everywhere?

This volume, originally a special issue of the Journal of Consciousness Studies, uses the recent writings of Philip Goff as a jumping-off point for discussions of panpsychism — the idea that consciousness is a fundamental and pervasive aspect of our universe that cannot be understood in other, more basic, terms. The contributors to this book explore various issues of panpsychism from the perspectives of science, philosophy, and theology. Some papers focus on further motivating and developing the panpsychist position. Others explore various challenges that the panpsychist faces. Collectively, they shed new and important light not only on panpsychism, but on the fundamental question of the place of consciousness in nature more generally.

Next-generation Approaches to Machine Consciousness

This text originates from the second of two conferences discussing the concept of consciousness. In 15 sections, this book demonstrates the broad range of fields now focusing on consciousness.

Toward a Science of Consciousness II

Mind Out of Matter aims to transform the way we think about consciousness and the physical world. Unlike many contemporary volumes, it develops a robust and philosophically satisfying account of the mind/body relationship without doing violence to fundamental physics. It expunges popular but ludicrous assumptions about the 'in principle' capabilities of cognizers and, with the help of tools from mathematics and scientific fields, supplants flawed notions of representation, function, and mental state with objective and physically grounded alternatives. It debunks quantum theories of consciousness, constructs a simple zombie recipe, and evaluates recent research on chaotic analogue networks. This book is indispensable for readers in philosophy of mind, cognitive science, and artificial intelligence, and for mathematicians applying complexity theory or information theory to biological cognition. Audience: General academic/university libraries, plus university departmental libraries in philosophy, artificial intelligence, cognitive science, and computer science. Researchers and specialists in philosophy of mind, cognitive science, artificial intelligence, artificial life, complexity theory, and information theory. Researchers in the telecommunications industry.

Mind Out of Matter

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.

Models of the Self

Understanding consciousness is one of the central scientific challenges of our time. This book presents Andy Ross's recent work and discusses a range of perspectives on the core issues. The chapters are based on texts written for a variety of occasions and audiences. Reading them in order, one senses a growing clarity in the articulation of the new ideas, some of which are deep and rather subtle, and glimpses the outlines of a dynamic field. Ross has taken pains to unify the collection and make the main thread clearly visible. His new ideas are of fundamental importance, and readers who grapple with them should gain insight that amply rewards the effort.

Mindworlds

What Is Artificial Consciousness A subfield of artificial intelligence and cognitive robotics, artificial consciousness (AC), also referred to as machine consciousness (MC) or synthetic consciousness, is a field that studies artificially created consciousness. "Define that which would have to be synthesized were consciousness to be found in an engineered artifact," this is the goal of the theory of artificial consciousness. How You Will Benefit (I) Insights, and validations about the following topics: Chapter 1: Artificial consciousness Chapter 2: Cognitive science

Chapter 3: Consciousness Chapter 4: Philosophy of artificial intelligence Chapter 5: Computational theory of mind Chapter 6: Artificial brain Chapter 7: Mind uploading Chapter 8: Global workspace theory Chapter 9: Cognitive architecture Chapter 10: Models of consciousness (II) Answering the public top questions about artificial consciousness. (III) Real world examples for the usage of artificial consciousness in many fields. (IV) 17 appendices to explain, briefly, 266 emerging technologies in each industry to have 360-degree full understanding of artificial consciousness' technologies. Who This Book Is For Professionals, undergraduate and graduate students, enthusiasts, hobbyists, and those who want to go beyond basic knowledge or information for any kind of artificial consciousness.

Artificial Consciousness

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

The Blackwell Companion to Consciousness

Essay from the year 2008 in the subject Psychology - General, grade: 1,7, University of Derby (Institut für 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.

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

First published in 1998. Routledge is an imprint of Taylor & Francis, an informa company.

Consciousness and Emotion in Cognitive Science

This book constitutes the refereed proceedings of the 9th European Conference on Artificial Life, ECAL 2007, held in Lisbon, Portugal. The 125 revised full papers cover morphogenesis and development, robotics and autonomous agents, evolutionary computation and theory, cellular automata, models of biological systems and their applications, ant colony and swarm systems, evolution of communication, simulation of social interactions, self-replication, artificial chemistry.

Advances in Artificial Life

The current state of the art in cognitive robotics, covering the challenges of building AI-powered intelligent robots inspired by natural cognitive systems. A novel approach to building AI-powered intelligent robots takes inspiration from the way natural cognitive systems—in humans, animals, and biological systems—develop intelligence by exploiting the full power of interactions between body and brain, the physical and social environment in which they live, and phylogenetic, developmental, and learning dynamics. This volume reports on the current state of the art in cognitive robotics, offering the first comprehensive coverage of building robots inspired by natural cognitive systems. Contributors first provide a systematic definition of cognitive robotics and a history of developments in the field. They describe in detail five main approaches: developmental, neuro, evolutionary, swarm, and soft robotics. They go on to consider methodologies and concepts, treating topics that include commonly used cognitive robotics platforms and robot simulators, biomimetic skin as an example of a hardware-based approach, machine-learning methods, and cognitive architecture. Finally, they cover the behavioral and cognitive capabilities of a variety of models, experiments, and applications, looking at issues that range from intrinsic motivation and perception to robot consciousness. Cognitive Robotics is aimed at an interdisciplinary audience, balancing technical details and examples for the computational reader with theoretical and experimental findings for the empirical scientist.

Cognitive Robotics

Deep learning and image processing are two areas of great interest to academics and industry professionals alike. The areas of application of these two disciplines range widely, encompassing fields such as medicine, robotics, and security and surveillance. The aim of this book, 'Deep Learning for Image Processing Applications', is to offer concepts from these two areas in the same platform, and the book brings together the shared ideas of professionals from academia and research about problems and solutions relating to the multifaceted aspects of the two disciplines. The first chapter provides an introduction to deep learning, and serves as the basis for much of what follows in the subsequent chapters, which cover subjects including: the application of deep neural networks for image classification; hand gesture recognition in robotics; deep learning techniques for image retrieval; disease detection using deep learning techniques; and the comparative analysis of deep data and big data. The book will be of interest to all those whose work involves the use of deep learning and image processing techniques.

Deep Learning for Image Processing Applications

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.

Consciousness and Robot Sentience

This book focuses on the research and development in the field of self-aware robots. Its theme is artificial consciousness, a field that covers both artificial intelligence and robotics, and includes philosophy, psychology, the study of biological evolution, physiology, and medicine, especially brain neuroscience and neuropsychiatry. Building on the first edition, *Creation of a Conscious Robot: Mirror Image Cognition and Self-Awareness*, this new edition discusses artificial neural networks and functions of human consciousness. It proposes a structure for a neural network with consciousness functions, explains the construction of a conscious system, and discusses the results of progressive research in designing and developing small robots with conscious systems capable of recognizing their own images in mirrors. Emphasizing the contributions of conscious robots to society and their potential future impact, the book also describes the robots that know the unknown, Pavlovian robots, and the development of a consciousness model possessing the well-known multiple personality disorder.

Self-Aware Robots

Is there a theory that explains the essence of consciousness? Or is consciousness itself just an illusion? The 'last great mystery of science', consciousness is a topic that was banned from serious research for most of the last century, but is now an area of increasing popular interest, as well as a rapidly expanding area of study for students of psychology, philosophy and neuroscience. This ground-breaking textbook by best-selling author Susan Blackmore was the first of its kind to bring together all the major theories of consciousness studies, from those based on neuroscience to those based on quantum theory or Eastern philosophy. The book examines topics such as how subjective experiences arise from objective brain processes, the basic neuroscience of consciousness, altered states of consciousness, out of body and near death experiences and the effects of drugs, dreams and meditation. It also explores the nature of self, the possibility of artificial consciousness in robots, and the question of whether animals are conscious. The new edition has been fully revised to include the latest developments in neuroscience, brain scanning techniques, and artificial consciousness and robotics. The new website includes self-assessment exercises, advanced further reading, flashcards and MCQs. For all those intrigued by what it means to be, to exist, this book could radically transform your

understanding of your own consciousness.

Consciousness

This book constitutes the refereed proceedings of the 38th Conference on Current Trends in Theory and Practice of Computer Science, SOFSEM 2012, held in Špindlerův Mlýn, Czech Republic, in January 2012. The 43 revised papers presented in this volume were carefully reviewed and selected from 121 submissions. The book also contains 11 invited talks, 10 of which are in full-paper length. The contributions are organized in topical sections named: foundations of computer science; software and Web engineering; cryptography, security, and verification; and artificial intelligence.

SOFSEM 2012: Theory and Practice of Computer Science

Can you learn without knowing it? This controversial and much debated question forms the basis of this collection of essays as the authors discuss whether the measurable changes in behaviour that result from learning can ever remain entirely unconscious. Three issues central to the topic of implicit learning are raised. Firstly, the extent to which learning can be unconscious, and therefore implicit, is considered. Secondly, theories are developed regarding the nature of knowledge acquired in implicit learning situations. Finally, the idea that there are two separable independent processing systems in the brain, for implicit and explicit learning, is considered. Implicit Learning and Consciousness challenges conventional wisdom and presents the most up-to-date studies to define, quantify and test the predictions of the main models of implicit learning. The chapters include a variety of research from computer modelling, experimental psychology and neural imaging to the clinical data resulting from work with amnesics. The result is a topical book that provides an overview of the debate on implicit learning, and the various philosophical, psychological and neurological frameworks in which it can be placed. It will be of interest to undergraduates, postgraduates and the philosophical, psychological and modeling research community.

Implicit Learning and Consciousness

Stan Franklin is the perfect tour guide through the contemporary interdisciplinary matrix of artificial intelligence, cognitive science, cognitive neuroscience, artificial neural networks, artificial life, and robotics that is producing a new paradigm of mind. Along the way, Franklin makes the case for a perspective that rejects a rigid distinction between mind and non-mind in favor of a continuum from less to more mind.

Artificial Minds

This open access book examines recent advances in how artificial intelligence (AI) and robotics have elicited widespread debate over their benefits and drawbacks for humanity. The emergent technologies have for instance implications within medicine and health care, employment, transport, manufacturing, agriculture, and armed conflict. While there has been considerable attention devoted to robotics/AI applications in each of these domains, a fuller picture of their connections and the possible consequences for our shared humanity seems needed. This volume covers multidisciplinary research, examines current research frontiers in AI/robotics and likely impacts on societal well-being, human – robot relationships, as well as the

opportunities and risks for sustainable development and peace. The attendant ethical and religious dimensions of these technologies are addressed and implications for regulatory policies on the use and future development of AI/robotics technologies are elaborated.

Robotics, AI, and Humanity

This book discusses consciousness from the perspectives of neuroscience, neuropsychiatry and philosophy. It develops a novel approach in consciousness studies by charting the pathways in which the brain challenges the self and the self challenges the brain. The author argues that the central issue in brain studies is to explain the unity, continuity, and adherence of experience, whether it is sensory or mental awareness, phenomenal- or self-consciousness. To address such a unity is to understand mutual challenges that the brain and the self pose for each other. The fascinating discussions that this book presents are: How do the brain and self create the conspiracy of experience where the physicality of the brain is lost in the subjectivity of the self?

Brain, Self and Consciousness

This is JCER Volume 9 Issue 3 first published in March 2018. It is entitled "On Consciousness, Emotion, Artificial Intelligence & Meaning of Life" and contains the following articles: (1) Artificial Intelligence, Natural Intelligence & TGD; (2) Dance of the Honeybee & New Physics; (3) Consciousness, Cosmology & the Meaning of Life (Part I); (4) Consciousness, Cosmology & the Meaning of Life (Part II); (5) On Emotions as Sensory Percepts of the State of Magnetic Body; (6) DMT, Pineal Gland & the New View on Sensory Perception' (7) How Information in Our Brain Interacts with Itself; and (8) Is It Possible to Reverse Alzheimer's Disease? Journal of Consciousness Exploration & Research ("JCER," <http://www.jcer.com>) is a publication in which scientists, philosophers and other learned scholars publish their research results and express their views on the nature, origin and mechanism of consciousness. In doing so, we hope that one day we will be able to arrive at a genuine science of consciousness.

Journal of Consciousness Exploration and Research Volume 9 Issue 3

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.

Computational Approaches To Conscious Artificial Intelligence

In an age where Artificial Intelligence (AI) evolves at a breakneck pace, the boundaries of machine capabilities are constantly being redefined. Propelled by advancements in deep learning and related technologies, AI is inching ever closer to mimicking human intellect. But can it achieve consciousness? And if so, at what cost to humanity? This book delves deep into the multi-faceted debate surrounding artificially conscious AI. It untangles ethical quandaries, philosophical dilemmas, technological challenges, political considerations, and the regulatory landscape. By drawing connections between AI research, neuroscience, and cognitive science, the narrative provides a comprehensive understanding of what consciousness might mean in the context of AI. As over a thousand AI luminaries globally sound the alarm, urging a pause on certain AI developments, the book underscores the urgency of its message. Recent incidents have spotlighted AI systems with capabilities so advanced that even their creators grapple to fully grasp or control them. It's imperative, now more than ever, to critically assess the implications of AI consciousness, weighing its potential risks against its benefits. This book offers both a timely warning and a call to informed action.

The Conscious Code

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