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# SINGULARITY HYPOTHESES

A Scientific and Philosophical Assessment



Springer

# <u>Singularity Hypotheses A Scientific And Philosophical</u> <u>Assessment</u>

**Ray Kurzweil** 

#### **Singularity Hypotheses A Scientific And Philosophical Assessment:**

Singularity Hypotheses Amnon H. Eden, James H Moor, Johnny H Soraker, Eric Steinhart, 2013-04-03 Singularity Hypotheses A Scientific and Philosophical Assessment offers authoritative jargon free essays and critical commentaries on accelerating technological progress and the notion of technological singularity It focuses on conjectures about the intelligence explosion transhumanism and whole brain emulation Recent years have seen a plethora of forecasts about the profound disruptive impact that is likely to result from further progress in these areas Many commentators however doubt the scientific rigor of these forecasts rejecting them as speculative and unfounded We therefore invited prominent computer scientists physicists philosophers biologists economists and other thinkers to assess the singularity hypotheses Their contributions go beyond speculation providing deep insights into the main issues and a balanced picture of the debate

Singularity Hypotheses Amnon H. Eden, James H. Moor, Johnny H. Soraker, 2013-04-30 The Singularity Is Near Ray Kurzweil, 2005-09-22 NEW YORK TIMES BESTSELLER Celebrated futurist Ray Kurzweil hailed by Bill Gates as the best person I know at predicting the future of artificial intelligence presents an elaborate smart and persuasive The Boston Globe view of the future course of human development Artfully envisions a breathtakingly better world Los Angeles Times Startling in scope and bravado Janet Maslin The New York Times An important book The Philadelphia Inquirer At the onset of the twenty first century humanity stands on the verge of the most transforming and thrilling period in its history It will be an era in which the very nature of what it means to be human will be both enriched and challenged as our species breaks the shackles of its genetic legacy and achieves inconceivable heights of intelligence material progress and longevity While the social and philosophical ramifications of these changes will be profound and the threats they pose considerable The Singularity Is Near presents a radical and optimistic view of the coming age that is both a dramatic culmination of centuries of technological ingenuity and a genuinely inspiring vision of our ultimate destiny The Technological Singularity Victor Callaghan, James Miller, Roman Yampolskiy, Stuart Armstrong, 2017-05-22 This volume contains a selection of authoritative essays exploring the central questions raised by the conjectured technological singularity In informed yet jargon free contributions written by active research scientists philosophers and sociologists it goes beyond philosophical discussion to provide a detailed account of the risks that the singularity poses to human society and perhaps most usefully the possible actions that society and technologists can take to manage the journey to any singularity in a way that ensures a positive rather than a negative impact on society The discussions provide perspectives that cover technological political and business issues The aim is to bring clarity and rigor to the debate in a way that will inform and stimulate both experts and interested general readers Artificial General Intelligence 2008 P. Wang, B. Goertzel, S. Franklin, 2008-02-18 The field of Artificial Intelligence AI was initially directly aimed at the construction of thinking machines that is computer systems with human like general intelligence But this task proved more difficult than expected As the years passed AI researchers

gradually shifted focus to producing AI systems that intelligently approached specific tasks in relatively narrow domains In recent years however more and more AI researchers have recognized the necessity and the feasibility of returning to the original goal of the field Increasingly there is a call to focus less on highly specialized narrow AI problem solving systems and more on confronting the difficult issues involved in creating human level intelligence and ultimately general intelligence that goes beyond the human level in various ways Artificial General Intelligence AGI as this renewed focus has come to be called attempts to study and reproduce intelligence as a whole in a domain independent way Encouraged by the recent success of several smaller scale AGI related meetings and special tracks at conferences the initiative to organize the very first international conference on AGI was taken with the goal to give researchers in the field an opportunity to present relevant research results and to exchange ideas on topics of common interest In this collection you will find the conference papers full length papers short position statements and also the papers presented in the post conference workshop on the sociocultural ethical and futurological implications of AGI **Parsing the Turing Test** Robert Epstein, Gary Roberts, Grace Beber, 2007-11-23 An exhaustive work that represents a landmark exploration of both the philosophical and methodological issues surrounding the search for true artificial intelligence Distinguished psychologists computer scientists philosophers and programmers from around the world debate weighty issues such as whether a self conscious computer would create an internet world mind This hugely important volume explores nothing less than the future of the human race itself The 21st Century Singularity and Global Futures Andrey V. Korotayev, David J. LePoire, 2020-01-02 This book introduces a Big History perspective to understand the acceleration of social technological and economic trends towards a near term singularity marking a radical turning point in the evolution of our planet It traces the emergence of accelerating innovation rates through global history and highlights major historical transformations throughout the evolution of life humans and civilization The authors pursue an interdisciplinary approach also drawing on concepts from physics and evolutionary biology to offer potential models of the underlying mechanisms driving this acceleration along with potential clues on how it might progress The contributions gathered here are divided into five parts the first of which studies historical mega trends in relation to a variety of aspects including technology population energy and information The second part is dedicated to a variety of models that can help understand the potential mechanisms and support extrapolation In turn the third part explores various potential future scenarios along with the paths and decisions that are required The fourth part presents philosophical perspectives on the potential deeper meaning and implications of the trend towards singularity while the fifth and last part discusses the implications of the Search for Extraterrestrial Intelligence SETI Given its scope the book will appeal to scholars from various disciplines interested in historical trends technological change and evolutionary processes

The Scientific Revolution Steven Shapin,1996 Shapin claims that there was no such thing as the Scientific Revolution neither as a coherent chronological event nor as a movement in science Instead he writes about how reformed practices of

making the same observations led to the creation of new ideas Singularity and Transnational Poetics Birgit Mara Kaiser, 2014-12-05 Over the past decade singularity has been a prominent term in a broad range of fields ranging from philosophy to literary and cultural studies to science and technology studies This volume intervenes in this broad discussion of singularity and its various implications proposing to explore the term for its specific potential in the study of literature Singularity and Transnational Poetics brings together scholars working in the fields of literary and cultural studies translation studies and transnational literatures The volume s central concern is to explore singularity as a conceptual tool for the comparative study of contemporary literatures beyond national frameworks and by implication as a tool to analyze human existence Contributors explore how singularity might move our conceptions of cultural identity from prevailing frameworks of self other toward the premises of being as singular plural Through a close reading of transnational literatures from Ireland Germany the Netherlands France and South Africa this collection offers a new approach to reading literature that will challenge a reader s established notions of identity individuality communicability and social cohesion of Metaphor Eric Steinhart, 2001-07-31 Some sentences in natural languages like English have multiple meanings Steinhart William Paterson U of New Jersey divides the meanings into literal and metaphorical denies that they are the same and denies that the metaphorical function is necessarily false or necessarily true He argues that most metaphors are based on analogies which he defines as the relative structural indiscernibility of parts of worlds and that a metaphor is true for a particular world if and only if certain parts of that world are relatively structurally indiscernible that is are analogous c Book Making AI Intelligible Herman Cappelen, 2021 Can humans and artificial intelligences share concepts and News Inc communicate This book shows that philosophical work on the metaphysics of meaning can help answer these questions Herman Cappelen and Josh Dever use the externalist tradition in philosophy to create models of how AIs and humans can understand each other In doing so they illustrate ways in which that philosophical tradition can be improved The questions addressed in the book are not only theoretically interesting but the answers have pressing practical implications Artificial Superintelligence Roman V. Yampolskiy, Allison Duettmann, 2020-04-30 Attention in the AI safety community has increasingly started to include strategic considerations of coordination between relevant actors in the field of AI and AI safety in addition to the steadily growing work on the technical considerations of building safe AI systems This shift has several reasons Multiplier effects pragmatism and urgency Given the benefits of coordination between those working towards safe superintelligence this book surveys promising research in this emerging field regarding AI safety On a meta level the hope is that this book can serve as a map to inform those working in the field of AI coordination about other promising efforts While this book focuses on AI safety coordination coordination is important to most other known existential risks e g biotechnology risks and future human made existential risks Thus while most coordination strategies in this book are specific to superintelligence we hope that some insights yield collateral benefits for the reduction of other existential risks by creating

an overall civilizational framework that increases robustness resiliency and antifragility The Laws of Scientific Change Hakob Barseghyan, 2016-10-22 This book systematically creates a general descriptive theory of scientific change that explains the mechanics of changes in both scientific theories and the methods of their assessment It was once believed that while scientific theories change through time their change itself is governed by a fixed method of science Nowadays we know that there is no such thing as an unchangeable method of science the criteria employed by scientists in theory evaluation also change through time But if that is so how and why do theories and methods change Are there any general laws that govern this process or is the choice of theories and methods completely arbitrary and random Contrary to the widespread opinion the book argues that scientific change is indeed a law governed process and that there can be a general descriptive theory of scientific change It does so by first presenting meta theoretical issues divided into chapters on the scope possibility and assessment of theory of scientific change It then builds a theory about the general laws that govern the process of scientific change and goes into detail about the axioms and theorems of the theory The Cambridge Handbook of Responsible **Artificial Intelligence** Silja Voeneky, Philipp Kellmeyer, Oliver Mueller, Wolfram Burgard, 2022-11-17 In the past decade artificial intelligence AI has become a disruptive force around the world offering enormous potential for innovation but also creating hazards and risks for individuals and the societies in which they live This volume addresses the most pressing philosophical ethical legal and societal challenges posed by AI Contributors from different disciplines and sectors explore the foundational and normative aspects of responsible AI and provide a basis for a transdisciplinary approach to responsible AI This work which is designed to foster future discussions to develop proportional approaches to AI governance will enable scholars scientists and other actors to identify normative frameworks for AI to allow societies states and the international community to unlock the potential for responsible innovation in this critical field This book is also available as Open Access on Cambridge Core Ethics in Research Practice and Innovation Sandu, Antonio, Frunza, Ana, Unguru, Elena, 2018-11-16 A particularly important component of any research project is its ethical dimensions which can refer to varied categories of practice from the protection of human subjects involved in medical and social research to the publication of results research More recently with the estimation of the possible consequences of the implementation of technology it is important for today s researchers to address the standards of scientific practice and avoid unethical behavior Ethics in Research Practice and Innovation is an essential reference source that discusses current and historical aspects of ethical values in scientific research and technologies as well as emerging perspectives of conducting ethical research in a variety of fields Featuring research on topics such as clinical trials human subjects and informed consent this book is ideally designed for practitioners medical professionals nurses researchers scientists scholars academicians policy makers and students seeking coverage on the ethical risks and limitations of research practice **Reconsidering the Limits to Growth** Viktor Sadovnichy, Askar Akaev, Ilya Ilyin, Sergey Malkov, Leonid Grinin, Andrey Korotayev, 2023-09-25 Echoing the famous The Limits to Growth report

from 1972 this edited volume analyses the changes that the World System has undergone to the present on the fiftieth anniversary of the original report During the past fifty years both the concept and understanding of these limits have significantly changed This book highlights that the evolution of the World System has approached a new critical milestone moving into a fundamentally new phase of historical development when the old economic and social technologies no longer work as efficiently as before or even begin to function counterproductively which leads the World System into a systemic crisis The book discusses the transition of human society to a new phase state the shape of which has not yet been determined New approaches are needed for both for the analysis of the global situation and for forecasts The book is based on an integrated approach including the world systems historical and evolutionary perspectives as well as a systematic view of society in which changes in one subsystem cause transformations in others Through mathematical modeling it defines the main vectors of transformations of the World System makes a detailed forecast of the development of all the main subsystems of the society and the World System while presenting horizons of changes from short term to ultra long term and presents different development scenarios as well as recommendations on how to achieve a transition to the most favorable scenario The book will appeal to members and followers of the Club of Rome policy makers as well as to scholars from various disciplines interested in a better understanding of the World System evolution global futures development studies climate change and future societies Machine Learning for Criminology and Crime Research Gian Maria Campedelli, 2022-06-09 Machine Learning for Criminology and Crime Research At the Crossroads reviews the roots of the intersection between machine learning artificial intelligence AI and research on crime examines the current state of the art in this area of scholarly inquiry and discusses future perspectives that may emerge from this relationship As machine learning and AI approaches become increasingly pervasive it is critical for criminology and crime research to reflect on the ways in which these paradigms could reshape the study of crime In response this book seeks to stimulate this discussion The opening part is framed through a historical lens with the first chapter dedicated to the origins of the relationship between AI and research on crime refuting the novelty narrative that often surrounds this debate The second presents a compact overview of the history of AI further providing a nontechnical primer on machine learning The following chapter reviews some of the most important trends in computational criminology and quantitatively characterizing publication patterns at the intersection of AI and criminology through a network science approach This book also looks to the future proposing two goals and four pathways to increase the positive societal impact of algorithmic systems in research on crime The sixth chapter provides a survey of the methods emerging from the integration of machine learning and causal inference showcasing their promise for answering a range of critical questions With its transdisciplinary approach Machine Learning for Criminology and Crime Research is important reading for scholars and students in criminology criminal justice sociology and economics as well as AI data sciences and statistics and computer science Superintelligence Nick Bostrom, 2014-07-03 The human brain has some

capabilities that the brains of other animals lack It is to these distinctive capabilities that our species owes its dominant position Other animals have stronger muscles or sharper claws but we have cleverer brains If machine brains one day come to surpass human brains in general intelligence then this new superintelligence could become very powerful As the fate of the gorillas now depends more on us humans than on the gorillas themselves so the fate of our species then would come to depend on the actions of the machine superintelligence But we have one advantage we get to make the first move Will it be possible to construct a seed AI or otherwise to engineer initial conditions so as to make an intelligence explosion survivable How could one achieve a controlled detonation To get closer to an answer to this guestion we must make our way through a fascinating landscape of topics and considerations Read the book and learn about oracles genies singletons about boxing methods tripwires and mind crime about humanity s cosmic endowment and differential technological development indirect normativity instrumental convergence whole brain emulation and technology couplings Malthusian economics and dystopian evolution artificial intelligence and biological cognitive enhancement and collective intelligence This profoundly ambitious and original book picks its way carefully through a vast tract of forbiddingly difficult intellectual terrain Yet the writing is so lucid that it somehow makes it all seem easy After an utterly engrossing journey that takes us to the frontiers of thinking about the human condition and the future of intelligent life we find in Nick Bostrom's work nothing less than a Introduction to AI Safety, Ethics, and Society Dan reconceptualization of the essential task of our time Hendrycks, 2024-12-31 As AI technology is rapidly progressing in capability and being adopted more widely across society it is more important than ever to understand the potential risks AI may pose and how AI can be developed and deployed safely Introduction to AI Safety Ethics and Society offers a comprehensive and accessible guide to this topic This book explores a range of wavs in which societies could fail to harness AI safely in coming years such as malicious use accidental failures erosion of safety standards due to competition between AI developers or nation states and potential loss of control over autonomous systems Grounded in the latest technical advances this book offers a timely perspective on the challenges involved in making current AI systems safer Ensuring that AI systems are safe is not just a problem for researchers in machine learning it is a societal challenge that cuts across traditional disciplinary boundaries Integrating insights from safety engineering economics and other relevant fields this book provides readers with fundamental concepts to understand and manage AI risks more effectively This is an invaluable resource for upper level undergraduate and postgraduate students taking courses relating to AI Safety Alignment AI Ethics AI Policy and the Societal Impacts of AI as well as anyone trying to better navigate the rapidly evolving landscape of AI safety Plurihistoricity Zoltán Boldizsár Simon, 2025-07-25 This book situates historical scholarship within a plurihistoricity of contemporary historical culture exploring conflicting conceptions of historical change in technological utopias of human enhancement in prospects of human extinction in societal responses to the Anthropocene and in the imperative of bringing colonial patterns of historical injustice to justice Contemporary societies

increasingly reclaim history from the academic pursuit of historiography On the one hand societal engagement in history is growing palpably History is literally everywhere in the fallen statues of past political regimes in trajectories of environmental degradation and in technological prospects of space expansion On the other hand societal demand for history seems to diminish rather than strengthen the authority of professionalized historical studies What do these societal historicities stand for How do they create pasts that matter What futures do they desire or attempt to avoid How do they view the historical transitions into those futures And what is the societal role of historical scholarship and scholarly conceptions of history in the plurihistoricity of contemporary historical culture By addressing these questions Simon s book is essential reading for everyone interested in the present and future of viewing the world historically

#### Singularity Hypotheses A Scientific And Philosophical Assessment Book Review: Unveiling the Power of Words

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