

# Singularity Rising Surviving And Thriving In A Smarter Richer And More Dangerous World

[#technological singularity](#) [#future of humanity](#) [#artificial intelligence](#) [#survival strategies](#) [#global challenges](#)

Delve into the transformative era of Singularity Rising, exploring critical strategies for surviving and thriving in a world rapidly reshaped by advanced technology and artificial intelligence. This guide uncovers the path to navigating a smarter, richer, yet potentially more dangerous future, offering insights on adaptation and prosperity amidst unprecedented change.

Each note is structured to summarize important concepts clearly and concisely.

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## Singularity Rising

In Ray Kurzweil's New York Times bestseller *The Singularity is Near*, the futurist and entrepreneur describes the Singularity, a likely future utterly different than anything we can imagine. The Singularity is triggered by the tremendous growth of human and computing intelligence that is an almost inevitable outcome of Moore's Law. Since the book's publication, the coming of the Singularity is now eagerly anticipated by many of the leading thinkers in Silicon Valley, from PayPal mastermind Peter Thiel to Google co-founder Larry Page. The formation of the Singularity University, and the huge popularity of the Singularity website [kurzweilai.com](http://kurzweilai.com), speak to the importance of this intellectual movement. But what about the average person? How will the Singularity affect our daily lives—our jobs, our families, and our wealth? *Singularity Rising: Surviving and Thriving in a Smarter, Richer, and More Dangerous World* focuses on the implications of a future society faced with an abundance of human and artificial intelligence. James D. Miller, an economics professor and popular speaker on the Singularity, reveals how natural selection has been increasing human intelligence over the past few thousand years and speculates on how intelligence enhancements will shape civilization over the next forty years. Miller considers several possible scenarios in this coming singularity: • A merger of man and machine making society fantastically wealthy and nearly immortal • Competition with billions of cheap AIs drive human wages to almost nothing while making investors rich • Businesses rethink investment decisions to take into account an expected future period of intense creative destruction • Inequality drops worldwide as technologies mitigate the cognitive cost of living in impoverished environments • Drugs designed to fight Alzheimer's disease and keep soldiers alert on battlefields have the fortunate side effect of increasing all of their users' IQs, which, in turn, adds a percentage points to worldwide economic growth. *Singularity Rising* offers predictions about the economic implications for a future of widely expanding intelligence and practical career and investment advice on flourishing on the way to the Singularity.

## The Technological Singularity

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.

### Superintelligence

This profoundly ambitious and original book picks its way carefully through a vast tract of forbiddingly difficult intellectual terrain.

### Exploring Service Science

This book constitutes the proceedings of the 10th International Conference on Exploring Service Science, IESS 2020, held in Porto, Portugal, in February 2020. The 28 papers presented in this volume were carefully reviewed and selected from 42 submissions. The book includes papers that extend the view on different concepts related to the development of the Service Science domain of study, applying them to frameworks, advanced technologies, and tools for the design of new, digitally-enabled service systems. This book is structured in six parts, based on the six main conference themes, as follows: Customer Experience, Data Analytics in Service, Emerging Service Technologies, Service Design and Innovation, Service Ecosystems, and Service Management.

### Here be Dragons

The 21st century will most likely see even more revolutionary changes than the 20th, due to advances in science, technology and medicine. Particular areas where extraordinary and perhaps disruptive advances can be expected include biotechnology, nanotechnology, and machine intelligence. We may also expect various ways to enhance human cognitive and other abilities using, e.g., pharmaceuticals, genetic engineering or machine-brain interfaces - perhaps to the extent of changing human nature beyond what we currently think of as human. The potential benefits of all these technologies are enormous, but so are the risks, including the possibility of human extinction.

### Connected, Inc

On balance, Christian Moynahan leads an idyllic life. He's the founder and CEO of a wildly successful software company, his best friends are all industry heavyweights, and although he's been the subject of a few memes, he's also popular among regular folks. But when a perfect storm of missteps and circumstances places him in the sights of a powerful enemy, Christian must make peace with his past and accept his new future--before the vast digital network he created is turned against him.

### Forecasting with Artificial Intelligence

This book is a comprehensive guide that explores the intersection of artificial intelligence and forecasting, providing the latest insights and trends in this rapidly evolving field. The book contains fourteen chapters covering a wide range of topics, including the concept of AI, its impact on economic decision-making, traditional and machine learning-based forecasting methods, challenges in demand forecasting, global forecasting models, meta-learning and feature-based forecasting, ensembling, deep learning, scalability in industrial and optimization applications, and forecasting performance evaluation. With key illustrations, state-of-the-art implementations, best practices, and notable advances, this book offers practical insights into the theory and practice of AI-based forecasting. This book is a valuable resource for anyone involved in forecasting, including forecasters, statisticians, data scientists, business analysts, or decision-makers.

### Philosophy and Computing

This book features papers from CEPE-IACAP 2015, a joint international conference focused on the philosophy of computing. Inside, readers will discover essays that explore current issues in epistemology, philosophy of mind, logic, and philosophy of science from the lens of computation. Coverage also examines applied issues related to ethical, social, and political interest. The contributors first explore

how computation has changed philosophical inquiry. Computers are now capable of joining humans in exploring foundational issues. Thus, we can ponder machine-generated explanation, thought, agency, and other quite fascinating concepts. The papers are also concerned with normative aspects of the computer and information technology revolution. They examine technology-specific analyses of key challenges, from Big Data to autonomous robots to expert systems for infrastructure control and financial services. The virtue of a collection that ranges over philosophical questions, such as this one does, lies in the prospects for a more integrated understanding of issues. These are early days in the partnership between philosophy and information technology. Philosophers and researchers are still sorting out many foundational issues. They will need to deploy all of the tools of philosophy to establish this foundation. This volume admirably showcases those tools in the hands of some excellent scholars.

### 18 Rules of Community Engagement

Connor shares how she helped her online community surpass 11,000 members in 18 short months in this definitive guide for those seeking to facilitate and grow online communities and develop social media strategies for themselves or their organizations.

### AI Superpowers

Introduction -- China's Sputnik moment -- Copycats in the Coliseum -- China's alternate Internet universe -- A tale of two countries -- The four waves of AI -- Utopia, dystopia, and the real AI crisis -- The wisdom of cancer -- A blueprint for human co-existence with AI -- Our global AI story

### The Syntellect Hypothesis

Magnum Opus of evolutionary cyberneticist and digital philosopher Alex M. Vikoulov on the ultimate nature of reality, consciousness, the physics of time, philosophy of mind, transhumanism, economic theory, the Technological Singularity, the extended Gaia theory, the impending phase transition of humanity, the Simulation Hypothesis, transcendental metaphysics and God. In one volume, the author covers it all: from quantum physics to your experiential reality, from the Big Bang to the Omega Point, from the 'flow state' to psychedelics, from 'Lucy' to the looming AI Singularity, from natural algorithms to the operating system of your mind, from geo-engineering to nanotechnology, from anti-aging to immortality technologies, from oligopoly capitalism to Star-Treconomics, from the Matrix to Universal Mind, from Homo sapiens to Holo syntellectus. This is an essential read in digital physics, foundations of quantum physics, science of consciousness, philosophy of mind, physics of time, phenomenology, economic theory, cybernetics and AI research, collective evolution and self-development in the Information Age. Despite a dozen of neologisms, readily explained by given definitions and contextually, the book is an exceptionally easy read for an intellectual reader. Alongside with the Syntellect Hypothesis, as the author's main contribution to the scientific and philosophical dialogue, you'll encounter the Conscious Instant Hypothesis and the Temporal Singularity, Experiential Realism and the Mental Universe Hypothesis in regards to our phenomenological experience; the Noocentric Model challenging the centuries-old Copernican heliocentric model; the Chrysalis Conjecture as his solution to the Fermi Paradox; D-theory of Time, or Digital Presentism, as his fresh perspective on temporal ontology and the physics of time; the mind-bending Digital Pantheism Argument, Exponential Evolution, and the Omega Point Cosmo-Teleology.

### AC/DC

AC/DC tells the little-known story of how Thomas Edison wrongly bet in the fierce war between supporters of alternating current and direct current. The savagery of this electrical battle can hardly be imagined today. The showdown between AC and DC began as a rather straightforward conflict between technical standards, a battle of competing methods to deliver essentially the same product, electricity. But the skirmish soon metastasized into something bigger and darker. In the AC/DC battle, the worst aspects of human nature somehow got caught up in the wires; a silent, deadly flow of arrogance, vanity, and cruelty. Following the path of least resistance, the war of currents soon settled around that most primal of human emotions: fear. AC/DC serves as an object lesson in bad business strategy and poor decision making. Edison's inability to see his mistake was a key factor in his loss of control over the 'operating system' for his future inventions? not to mention the company he founded, General Electric.

### Smart cities

The Future of Business explores how the commercial world is being transformed by the complex interplay between social, economic and political shifts, disruptive ideas, bold strategies and breakthroughs in science and technology. Over 60 contributors from 21 countries explore how the business landscape will be reshaped by factors as diverse as the modification of the human brain and body, 3D printing, alternative energy sources, the reinvention of government, new business models, artificial intelligence, blockchain technology, and the potential emergence of the Star Trek economy.

### The Artillect War

"Startling in scope and bravado." —Janet Maslin, The New York Times "Artfully envisions a breathtakingly better world." —Los Angeles Times "Elaborate, smart and persuasive." —The Boston Globe "A pleasure to read." —The Wall Street Journal One of CBS News's Best Fall Books of 2005 • Among St Louis Post-Dispatch's Best Nonfiction Books of 2005 • One of Amazon.com's Best Science Books of 2005 A radical and optimistic view of the future course of human development from the bestselling author of *How to Create a Mind* and *The Singularity is Nearer* who Bill Gates calls "the best person I know at predicting the future of artificial intelligence" For over three decades, Ray Kurzweil has been one of the most respected and provocative advocates of the role of technology in our future. In his classic *The Age of Spiritual Machines*, he argued that computers would soon rival the full range of human intelligence at its best. Now he examines the next step in this inexorable evolutionary process: the union of human and machine, in which the knowledge and skills embedded in our brains will be combined with the vastly greater capacity, speed, and knowledge-sharing ability of our creations.

### The Future of Business

The history of robotics and artificial intelligence in many ways is also the history of humanity's attempts to control such technologies. From the Golem of Prague to the military robots of modernity, the debate continues as to what degree of independence such entities should have and how to make sure that they do not turn on us, its inventors. Numerous recent advancements in all aspects of research, development and deployment of intelligent systems are well publicized but safety and security issues related to AI are rarely addressed. This book is proposed to mitigate this fundamental problem. It is comprised of chapters from leading AI Safety researchers addressing different aspects of the AI control problem as it relates to the development of safe and secure artificial intelligence. The book is the first edited volume dedicated to addressing challenges of constructing safe and secure advanced machine intelligence. The chapters vary in length and technical content from broad interest opinion essays to highly formalized algorithmic approaches to specific problems. All chapters are self-contained and could be read in any order or skipped without a loss of comprehension.

### The Singularity Is Near

The hymn of Digitalization is nothing new: We must encourage the creation of new apps. We must develop AI in order to prevail among international competition. Technology's advance will halt climate change and let robots do the dumb stuff for us. Our faith in technology is powerful because it has saved us in the past. The Almighty Machine shows us technology's flip side. The things that once powered us toward a brighter tomorrow are already undermining our quality of life. The data stream has shattered our concentration, human relationships have been reduced to a menu of emojis, constant surveillance has nullified much of our privacy, and the development of AI could be the beginning of the end for us. We are becoming the casualties of our own success. Pekka Vahvanen's bristling and timely critique, deftly translated by Mark Jones, throws doubt on the necessity of technological development in a world saturated in tech. The Almighty Machine presents an important question: Does progress no longer make us happier?

### Artificial Intelligence Safety and Security

In the beginning, the World Wide Web was exciting and open to the point of anarchy, a vast and intimidating repository of unindexed confusion. Into this creative chaos came Google with its dazzling mission—"To organize the world's information and make it universally accessible"—and its much-quoted motto, "Don't be evil." In this provocative book, Siva Vaidhyanathan examines the ways we have used and embraced Google—and the growing resistance to its expansion across the globe. He exposes the dark side of our Google fantasies, raising red flags about issues of intellectual property and the much-touted Google Book Search. He assesses Google's global impact, particularly in China, and explains the insidious effect of Googlization on the way we think. Finally, Vaidhyanathan proposes the

construction of an Internet ecosystem designed to benefit the whole world and keep one brilliant and powerful company from falling into the "evil" it pledged to avoid.

### The Almighty Machine

In the twenty-first century, educators around the world are being told that they need to transform education systems to adapt young people for the challenges of a global digital knowledge economy. Too rarely, however, do we ask whether this future vision is robust, achievable or even desirable, whether alternative futures might be in development, and what other possible futures might demand of education. Drawing on ten years of research into educational innovation and socio-technical change, working with educators, researchers, digital industries, students and policy-makers, this book questions taken-for-granted assumptions about the future of education. Arguing that we have been working with too narrow a vision of the future, Keri Facer makes a case for recognizing the challenges that the next two decades may bring, including: the emergence of new relationships between humans and technology the opportunities and challenges of aging populations the development of new forms of knowledge and democracy the challenges of climate warming and environmental disruption the potential for radical economic and social inequalities. This book describes the potential for these developments to impact critical aspects of education – including adult-child relationships, social justice, curriculum design, community relationships and learning ecologies. Packed with examples from around the world and utilising vital research undertaken by the author while Research Director at the UK's Futurelab, the book helps to bring into focus the risks and opportunities for schools, students and societies over the coming two decades. It makes a powerful case for rethinking the relationship between education and social and technological change, and presents a set of key strategies for creating schools better able to meet the emerging needs of their students and communities. An important contribution to the debates surrounding educational futures, this book is compelling reading for all of those, including educators, researchers, policy-makers and students, who are asking the question 'how can education help us to build desirable futures for everyone in the context of social and technological change?'

### The Googlization of Everything

'This is the most important conversation of our time, and Tegmark's thought-provoking book will help you join it' Stephen Hawking THE INTERNATIONAL BESTSELLER. DAILY TELEGRAPH AND THE TIMES BOOKS OF THE YEAR SELECTED AS ONE OF BARACK OBAMA'S FAVOURITE BOOKS OF 2018 AI is the future - but what will that future look like? Will superhuman intelligence be our slave, or become our god? Taking us to the heart of the latest thinking about AI, Max Tegmark, the MIT professor whose work has helped mainstream research on how to keep AI beneficial, separates myths from reality, utopias from dystopias, to explore the next phase of our existence. How can we grow our prosperity through automation, without leaving people lacking income or purpose? How can we ensure that future AI systems do what we want without crashing, malfunctioning or getting hacked? Should we fear an arms race in lethal autonomous weapons? Will AI help life flourish as never before, or will machines eventually outsmart us at all tasks, and even, perhaps, replace us altogether? 'This is a rich and visionary book and everyone should read it' The Times

### Learning Futures

We are already living in the future. Artificial intelligence is playing an even-greater role in society: from the 'weaponization' of software to the possibility of a post-antibiotic age. The Sentient Machine is the perfect guide to this brave new world. Amir Husain outlines the history behind artificial intelligence from the creation myth of Frankenstein to the advances made by technology innovators such as Elon Musk. Amir Husain asks the essential question: what is the future for humanity in a world that is dominated by machines? Will machines solve all human problems or will they lead us down a dystopian path to human irrelevance? Husain asks what will be the consequences - from job losses, our future, to the existential questions. How are we intelligent, what constitutes progress, how can AI bring us to "the good life"? How can humans prevent ceding decisions to the network of autonomous systems that increasingly surround us? One of the world's leading technologists looks at our future as we are on the cusp of a second Big Bang, when machines can think independently from us. Will the increasing role of artificial intelligence heal or harm our society? In The Sentient Machine, Amir Husain addresses complex computer science concepts in plain language and illustrates his points drawing on a wide variety of cultural and historical references. This is an accessible guide to a fascinating subject. A book that could be adopted onto computer science courses, and some philosophy courses.

If we lived in a liquid world, the concept of a "machine" would make no sense. Liquid life is metaphor and apparatus that discusses the consequences of thinking, working, and living through liquids. It is an irreducible, paradoxical, parallel, planetary-scale material condition, unevenly distributed spatially, but temporally continuous. It is what remains when logical explanations can no longer account for the experiences that we recognize as part of "being alive." Liquid Life references a third-millennial understanding of matter that seeks to restore the agency of the liquid soul for an ecological era, which has been banished by reductionist, "brute" materialist discourses and mechanical models of life. Offering an alternative worldview of the living realm through a "new materialist" and "liquid" study of matter, Armstrong conjures forth examples of creatures that do not obey mechanistic concepts like predictability, efficiency, and rationality. With the advent of molecular science, an increasingly persuasive ontology of liquid technologies can be identified. Through the lens of lifelike dynamic droplets, the agency for these systems exists at the interfaces between different fields of matter/energy that respond to highly local effects, with no need for a central organizing system. Liquid Life seeks an alternative partnership between humanity and the natural world. It provokes a re-invention of the languages of the living realm to open up alternative spaces for exploration, including contributor Rolf Hughes' "angelology" of language, which explores the transformative invocations of prose poetry, and Simone Ferracina's graphical notations that help shape our concepts of metabolism, upcycling, and designing with fluids. A conceptual and practical toolset for thinking and designing, liquid life reunites us with the irreducible "soul substance" of living things, which will neither be simply "solved," nor go away.

### The Sentient Machine

In Transcend, famed futurist Ray Kurzweil and his coauthor Terry Grossman, MD, present a cutting edge, accessible program based on the vanguard in nutrition and science. They've distilled thousands of scientific studies to make the case that new developments in medicine and technology will allow us to radically extend our life expectancies and slow the aging process. Transcend gives you the practical tools you need to live long enough (and remain healthy long enough) to take full advantage of the biotech and nanotech advances that have already begun and will continue to occur at an accelerating pace during the years ahead. To help you remember the nine key components of the program, Ray and Terry have arranged them into a mnemonic: Talk with your doctor, Relaxation, Assessment, Nutrition, Supplements, Calorie reduction, Exercise, New technologies, Detoxification. This easy-to-follow program will help you transcend the boundaries of your genetic legacy and live long enough to live forever.

### Liquid Life

"A new field of collective intelligence has emerged in the last few years, prompted by a wave of digital technologies that make it possible for organizations and societies to think at large scale. This "bigger mind"--human and machine capabilities working together--has the potential to solve the great challenges of our time. So why do smart technologies not automatically lead to smart results? Gathering insights from diverse fields, including philosophy, computer science, and biology, Big Mind reveals how collective intelligence can guide corporations, governments, universities, and societies to make the most of human brains and digital technologies"--Amazon.com.

### Transcend

Based on news reports, you might think there's a major cybersecurity threat every four to five months. In reality, there's a cybersecurity attack happening every minute of every day. Today, we live our lives—and conduct our business—online. Our data is in the cloud and in our pockets on our smartphones, shuttled over public Wi-Fi and company networks. To keep it safe, we rely on passwords and encryption and private servers, IT departments and best practices. But as you read this, there is a 70 percent chance that your data is compromised . . . you just don't know it yet. Cybersecurity attacks have increased exponentially, but because they're stealthy and often invisible, many underplay, ignore, or simply don't realize the danger. By the time they discover a breach, most individuals and businesses have been compromised for over three years. Instead of waiting until a problem surfaces, avoiding a data disaster means acting now to prevent one. In Cyber Crisis, Eric Cole gives readers a clear-eyed picture of the information war raging in cyberspace. Drawing on 30 years of experience—as a professional hacker for the CIA, as the Obama administration's cybersecurity commissioner, and as a consultant to clients around the globe from Bill Gates to Lockheed Martin and McAfee—Cole offers practical, actionable

advice that even those with little technical background can implement, including steps to take on a daily, weekly, and monthly basis to protect their businesses and themselves. No matter who you are or where you work, cybersecurity should be a top priority. The information infrastructure we rely on in every sector of our lives—in healthcare and finance, for governments and private citizens—is both critical and vulnerable, and sooner or later, you or your company will be a target. This book is your guide to understanding the threat and putting together a proactive plan to minimize exposure and damage, and ensure the security of your business, your family, and your future

### Big Mind

'A fine example of the new anti-epic fiction at its best . . . This is one of the more brilliant pieces of writing that you're liable to read for a long time.' - Seattle Post-Intelligencer 'One of the major-league fantasy releases of 2011, the highly awaited *The White-Luck Warrior* by Scott Bakker . . . Nobody can deny the powerful nature of those books . . . Overall [Bakker's books have] enriched the potential of the fantasy genre quite a lot.' - Fantasy Book Critic A score of years after he first walked into the histories of men, Anasûrimbor Kellhus rules all the three seas, the first true aspect-emperor in a thousand years. As Kellhus and his Great Ordeal march ever farther into the perilous wastes of the Ancient North, Esmenet finds herself at war with not only the Gods, but her own family as well. Achamian, meanwhile, leads his own ragtag expedition to the legendary ruins of Sauglish, and to a truth he can scarce survive, let alone comprehend. Into this tumult walks the White Luck Warrior, assassin and messiah both, executing a mission as old as the World's making . . . The second volume in the ambitious and compelling Aspect-Emperor fantasy series *Books by R Scott Baker: Prince of Nothing Trilogy The Darkness That Comes Before The Warrior-Prophet The Thousandfold Thought Aspect-Emperor The Judging Eye The White Luck Warrior The Great Ordeal The Unholy Consult Novels Neuropath Disciple of the Dog Light, Time, and Gravity*

### Cyber Crisis

We are entering the Anthropocene's back loop, a time of release and collapse, confusion and reorientation, in which not only populations and climates are being upended but also physical and metaphysical grounds. Needed now are forms of experimentation geared toward autonomous modes of living within the back loop's new unsafe operating spaces.

### The White-Luck Warrior

This book examines the current state of the technologically-caused unemployed, and attempts to answer the question of how to proceed into an era beyond technological unemployment. Beginning with an overview of the most salient issues, the experts collected in this work present their own novel visions of the future and offer suggestions for adapting to a more symbiotic economic relationship with AI. These suggestions include different modes of dealing with education, aging workers, government policies, and the machines themselves. Ultimately, they lay out a whole new approach to economics, one in which we learn to merge with and adapt to our increasingly intelligent creations.

### Anthropocene Back Loop

People are using the future to search for better ways to achieve sustainability, inclusiveness, prosperity, well-being and peace. In addition, the way the future is understood and used is changing in almost all domains, from social science to daily life. This book presents the results of significant research undertaken by UNESCO with a number of partners to detect and define the theory and practice of anticipation around the world today. It uses the concept of 'Futures Literacy' as a tool to define the understanding of anticipatory systems and processes – also known as the Discipline of Anticipation. This innovative title explores:

- new topics such as Futures Literacy and the Discipline of Anticipation;
- the evidence collected from over 30 Futures Literacy Laboratories and presented in 14 full case studies;
- the need and opportunity for significant innovation in human decision-making systems.

This book will be of great interest to scholars, researchers, policy-makers and students, as well as activists working on sustainability issues and innovation, future studies and anticipation studies. The Open Access version of this book, available at <https://www.taylorfrancis.com/books/e/9781351047999>, has been made available under a Attribution-NonCommercial-NoDerivs 3.0 IGO (CC-BY-NC-ND 3.0 IGO) license.

### Surviving the Machine Age

This book offers a comprehensive introduction to the different emerging concepts in the innovative area of sustainability and digital technology. More than 20 leading thinkers from the fields of digitalization, strategic management, sustainability and organizational development share clearly structured insights on the latest developments, advances and remaining challenges concerning the role of sustainability in an increasingly digital world. The authors not only introduce a profound and unique analysis on the state-of-the art of sustainability and digital transformation, but also provide business leaders with practical advice on how to apply the latest management thinking to their daily business decisions. Further, a number of significant case studies exemplify the issues discussed and serve as valuable blueprints for decision makers.

### Transforming the Future (Open Access)

The 21st century is on the verge of a possible total economic and political revolution. Technological advances in robotics, computing and digital communications have the potential to completely transform how people live and work. Even more radically, humans will soon be interacting with artificial intelligence (A.I.) as a normal and essential part of their daily existence. What is needed now more than ever is to rethink social relations to meet the challenges of this soon-to-arrive "smart" world. This book proposes an original theory of trans-human relations for this coming future. Drawing on insights from organisational studies, critical theory, psychology and futurism - it will chart for readers the coming changes to identity, institutions and governance in a world populated by intelligent human and non-human actors alike. It will be characterised by a fresh emphasis on infusing programming with values of social justice, protecting the rights and views of all forms of "consciousness" and creating the structures and practices necessary for encouraging a culture of "mutual intelligent design". To do so means moving beyond our anthropocentric worldview of today and expanding our assumptions about the state of tomorrow's politics, institutions, laws and even everyday existence. Critically such a profound shift demands transcending humanist paradigms of a world created for and by humans and instead opening ourselves to a new reality where non-human intelligence and cyborgs are increasingly central.

### Sustainability in a Digital World

In this third volume of his award-winning American Crisis series, James Gustave Speth makes his boldest and most ambitious contribution yet. He looks unsparingly at the sea of troubles in which the United States now finds itself, charts a course through the discouragement and despair commonly felt today, and envisions what he calls America the Possible, an attractive and plausible future that we can still realize. The book identifies a dozen features of the American political economy--the country's basic operating system--where transformative change is essential. It spells out the specific changes that are needed to move toward a new political economy--one in which the true priority is to sustain people and planet. Supported by a compelling "theory of change" that explains how system change can come to America, the book also presents a vision of political, social, and economic life in a renewed America. Speth envisions a future that will be well worth fighting for. In short, this is a book about the American future and the strong possibility that we yet have it in ourselves to use our freedom and our democracy in powerful ways to create something fine, a reborn America, for our children and grandchildren.

### Identity, Institutions and Governance in an AI World

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.

### America the Possible

This is a compelling study of the often controversial role and meaning of the new media and digital cultures in contemporary society. Three decades of societal and cultural alignment of new media



yielded to a host of innovations, trials, and problems, accompanied by versatile popular and academic discourse. "New Media Studies" crystallized internationally into an established academic discipline, which begs the question: where do we stand now; which new issues have emerged now that new media are taken for granted, and which riddles remain unsolved; and, is contemporary digital culture indeed all about 'you', or do we still not really understand the digital machinery and how it constitutes us as 'you'. From desktop metaphors to Web 2.0 ecosystems, from touch screens to blogging to e-learning, from role-playing games to Cybergoth music to wireless dreams, this timely volume offers a showcase of the most up-to-date research in the field from what may be called a 'digital-materialist' perspective.

### Singularity Hypotheses

The New York Times bestseller from CNN Political Commentator and 2020 former Democratic presidential candidate Andrew Yang, this thought-provoking and prescient call-to-action outlines the urgent steps America must take, including Universal Basic Income (UBI), to stabilize our economy amid rapid technological change and automation. The shift toward automation is about to create a tsunami of unemployment. Not in the distant future--now. One recent estimate predicts 45 million American workers will lose their jobs within the next twelve years--jobs that won't be replaced. In a future marked by restlessness and chronic unemployment, what will happen to American society? In *The War on Normal People*, Andrew Yang paints a dire portrait of the American economy. Rapidly advancing technologies like artificial intelligence, robotics and automation software are making millions of Americans' livelihoods irrelevant. The consequences of these trends are already being felt across our communities in the form of political unrest, drug use, and other social ills. The future looks dire-but is it unavoidable? In *The War on Normal People*, Yang imagines a different future--one in which having a job is distinct from the capacity to prosper and seek fulfillment. At this vision's core is Universal Basic Income, the concept of providing all citizens with a guaranteed income-and one that is rapidly gaining popularity among forward-thinking politicians and economists. Yang proposes that UBI is an essential step toward a new, more durable kind of economy, one he calls "human capitalism."

### Digital Material

Essays discuss science, the origin of the universe, evolution, the mind, communication, symmetry, and the future of the human species

### The War on Normal People

Artificial intelligence (AI) is the latest technological evolution which is transforming the global economy and is a major part of the "Fourth Industrial Revolution." This book covers the meaning, types, subfields and applications of AI, including U.S. governmental policies and regulations, ethical and privacy issues, particularly as they pertain and affect facial recognition programs and the Internet-of Things (IoT). There is a lengthy analysis of bias, AI's effect on the current and future job market, and how AI precipitated fake news. In addition, the text covers basics of intellectual property rights and how AI will transform their protection. The author then moves on to explore international initiatives from the European Union, China's New Generation Development Plan, other regional areas, and international conventions. The book concludes with a discussion of super intelligence and the question and applicability of consciousness in machines. The interdisciplinary scope of the text will appeal to any scholars, students and general readers interested in the effects of AI on our society, particularly in the fields of STS, economics, law and politics.

### How Things Are

*Systems Thinking, Third Edition* combines systems theory and interactive design to provide an operational methodology for defining problems and designing solutions in an environment increasingly characterized by chaos and complexity. This new edition has been updated to include all new chapters on self-organizing systems as well as holistic, operational, and design thinking. The book covers recent crises in financial systems and job markets, the housing bubble, and environment, assessing their impact on systems thinking. A companion website is available at [interactdesign.com](http://interactdesign.com). This volume is ideal for senior executives as well as for chief information/operating officers and other executives charged with systems management and process improvement. It may also be a helpful resource for IT/MBA students and academics. Four NEW chapters on self-organizing systems, holistic thinking, operational thinking, and design thinking. Covers the recent crises in financial systems and job markets globally, the

housing bubble, and the environment, assessing their impact on systems thinking Companion website to accompany the book is available at [interactdesign.com](http://interactdesign.com)

## Artificial Intelligence as a Disruptive Technology

The world's leading scientific thinkers explore bold, remarkable, perilous ideas that could change our lives—for better . . . or for worse . . . From Copernicus to Darwin, to current-day thinkers, scientists have always promoted theories and unveiled discoveries that challenge everything society holds dear; ideas with both positive and dire consequences. Many thoughts that resonate today are dangerous not because they are assumed to be false, but because they might turn out to be true. What do the world's leading scientists and thinkers consider to be their most dangerous idea? Through the leading online forum Edge ([www.edge.org](http://www.edge.org)), the call went out, and this compelling and easily digestible volume collects the answers. From using medication to permanently alter our personalities to contemplating a universe in which we are utterly alone, to the idea that the universe might be fundamentally inexplicable, *What Is Your Dangerous Idea?* takes an unflinching look at the daring, breathtaking, sometimes terrifying thoughts that could forever alter our world and the way we live in it. Contributors include Daniel C. Dennett • Jared Diamond • Brian Greene • Matt Ridley • Howard Gardner and Freeman Dyson, among others

## Systems Thinking

What Is Your Dangerous Idea?