

---

# Our Final Invention Artificial Intelligence And The End Of Human Era James Barrat

---

A Novel of Silicon Valley  
Artificial Intelligence and the End of the Human Era  
Machines of Loving Grace  
Structures or Why things don't fall down  
Humans Need Not Apply  
Savior or Destroyer? The History and Future of Artificial Intelligence  
Summary of "Atomic Habits" by James Clear - Free book by QuickRead.com  
Paths, Dangers, Strategies  
The Rise of Machine Intelligence  
Artificial Intelligence and the Problem of Control  
Artificial General Intelligence 2008  
AI and the Singularity  
Superintelligence  
The Sentient Machine  
The Rise of the Robots  
Preparing Your Leadership Skills for the AI-Shaped Future of Work  
Radical Abundance  
Proceedings of the First AGI Conference  
Genetic Engineering and the Future of Humanity  
Life in the Smart Lane  
Genesis  
How Artificial Intelligence Will Transform Everything  
Prescribing Mental Health Medication  
When Humans Transcend Biology  
Perception and Production of Fluent Speech  
The Myth of Artificial Intelligence  
The Quest for Common Ground Between Humans and Robots  
The Alignment Problem: Machine Learning and Human Values  
Smarter Than Us (Print)  
Rule of the Robots  
Our Final Invention  
Human Compatible  
How a Revolution in Nanotechnology Will Change Civilization  
A Fallacy Or a Great Opportunity?  
What It Is, Where We Are, and Where We Are Going  
Our Final Invention  
Artificial Intelligence and the End of the Human Era  
The Coming Age of Artificial Intelligence

## AI, Humans and the Superhuman Revolution Reimagining Work in the Age of AI

*Our Final  
Invention  
Artificial  
Intelligence  
And The End  
Of Human Era* [archive.imba.com](https://archive.imba.com)  
James Barrat *Downloaded  
from  
by guest*

---

### ALEXIA JAIDA

---

#### **A Novel of Silicon**

**Valley** Springer Science & Business Media

Between the 18th and 19th centuries, Britain experienced massive leaps in technological, scientific, and economical advancement

#### **Artificial Intelligence and the End of the**

**Human Era** Prometheus Books

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 question, 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.

[Machines of Loving Grace](#)  
Penguin

In this sequel to his prescient New York Times bestseller *Rise of the Robots*, Martin Ford presents us with a striking

vision of the very near future. He argues that AI is a uniquely powerful technology, a kind of "electricity of intelligence" that is altering every dimension of human life, often for the better with advanced science being done by machines who can solve problems humans can not. AI has the potential to help us fight climate change or the next pandemic, but it also has a capacity for profound harm. Deep fakes-AI-generated audio or video of events that never happened-are poised to cause havoc throughout society. AI empowers authoritarian regimes like China with unprecedented mechanisms for social control. And AI can be deeply biased, learning bigoted attitudes from the data used to train algorithms and perpetuating them. Hard-hitting and thought-provoking, covering everything from self-driving cars to the history of deep learning to apps for diagnosing skin cancer, *Rule of the Robots* challenges our fears and preconceptions about artificial intelligence. Ford argues that AI is here to

stay and the real question is not how to stop it, but how to control its negative potential and harness its power for good as AI transforms our economy, our politics, and our lives.

#### Structures or Why things don't fall down

Marin Ivezic

Artificial intelligence is our most powerful technology, and in the coming decades it will change everything in our lives. If we get it right it will make humans almost godlike. If we get it wrong... well, extinction is not the worst possible outcome.

"Surviving AI" is a concise, easy-to-read guide to what's coming, taking you through technological unemployment (the economic singularity) and the possible creation of a superintelligence (the technological singularity). Here's what some of the leading thinkers in the field have to say about it: A sober and easy-to-read review of the risks and opportunities that humanity will face from AI. Jaan Tallinn - co-founder of Skype  
Understanding AI - its promise and its dangers - is emerging as one of the great challenges of coming decades and this is an invaluable guide to anyone who's interested,

confused, excited or scared. David Shukman - BBC Science Editor We have recently seen a surge in the volume of scholarly analysis of this topic; Chace impressively augments that with this high-quality, more general-audience discussion. Aubrey de Grey - CSO of SENS Research Foundation; former AI researcher It's rare to see a book about the potential End of the World that is fun to read without descending into sensationalism or crass oversimplification. Ben Goertzel - chairman of Novamente LLC Calum Chace is a prescient messenger of the risks and rewards of artificial intelligence. In "Surviving AI" he has identified the most essential issues and developed them with insight and wit - so that the very framing of the questions aids our search for answers. Chace's sensible balance between AI's promise and peril makes "Surviving AI" an excellent primer for anyone interested in what's happening, how we got here, and where we are headed. Kenneth Cukier - co-author of "Big Data" If you're not thinking about AI, you're not thinking. "Surviving AI" combines an essential

grounding in the state of the art with a survey of scenarios that will be discussed with equal vigor at cocktail parties and academic colloquia. Chris Meyer - author of "Blur," "It's Alive," and "Standing on the Sun" The appearance of Calum Chace's book is of some considerable personal satisfaction to me, because it signifies the fact that the level of social awareness of the rise of massively intelligent machines has finally reached the mainstream. If you want to survive the next few decades, you cannot afford NOT to read Chace's book. Prof. Dr. Hugo de Garis - former director of the Artificial Brain Lab, Xiamen University, China  
"Surviving AI" is an exceptionally clear, well-researched and balanced introduction to a complex and controversial topic, and is a compelling read to boot. Sean O hEigeartaigh -executive director of Cambridge Centre for the Study of Existential Risk  
In "Surviving AI," Calum Chace provides a marvellously accessible guide to the swirls of controversy that surround discussion of what is likely to be the single most important event in human

history -the emergence of artificial superintelligence. Throughout, "Surviving AI" remains clear and jargon-free. David Wood - chair of London Futurists Artificial intelligence is the most important technological of our era. Technological unemployment could force us to adopt an entirely new economic structure, and the creation of superintelligence would be the biggest event in human history. "Surviving AI" is a first-class introduction to all of this. Brad Feld - co-founder of Techstars"

*Humans Need Not Apply* Farrar, Straus and Giroux Futurists are certain that humanlike AI is on the horizon, but in fact engineers have no idea how to program human reasoning. AI reasons from statistical correlations across data sets, while common sense is based heavily on conjecture. Erik Larson argues that hyping existing methods will only hold us back from developing truly humanlike AI. *Savior or Destroyer? The History and Future of Artificial Intelligence* Our Final Invention Artificial Intelligence and the End of the Human Era

\* Our summary is short, simple and pragmatic. It allows you to have the essential ideas of a big book in less than 30 minutes. As you read this summary, you will learn that the development of artificial intelligence (AI) may well be the ultimate invention of mankind. You will also learn that : tomorrow, AI will make the decisions for humans; this fundamental change will probably take place during your lifetime; the completed version of AI could take the form of an "augmented human"; man will not forever master the dangers born of scientific and technical development; the evolution towards AI will be incremental; intelligence is by nature unpredictable. In a little less than a decade, AI could catch up with, and then surpass, the level of human intellectual capacities. Companies and public research institutes alike are spending billions of dollars each year to advance this pioneering science, which is still in its infancy. In "Our Final Invention", James Barrat, director of television documentaries for National Geographic, PBS (the American public television channel) and Discovery, among others,

expresses his deep conviction: the foreseeable and imminent takeover of AI will indeed be our last invention. For our species, then, will disappear. \*Buy now the summary of this book for the modest price of a cup of coffee!

**Summary of "Atomic Habits" by James Clear - Free book by QuickRead.com** Flatiron Books

"Prescribing Mental Health Medication is a text for nursing and medical practitioners who are learning how to diagnose and treat mental disorders with medication. Skills-based, it focuses on the following key issues: how to start and stop medication, how to dose, when to change medication, dealing with particular kinds of patients, specific illnesses and their medication, special populations and conditions, the management of side effects, practical issues such as monitoring medication with blood levels, administrative issues such as record-keeping." -- Publisher's description.

Paths, Dangers, Strategies Nicholas Brealey From Oxford's leading AI researcher comes a fun and accessible tour

through the history and future of one of the most cutting edge and misunderstood field in science: Artificial Intelligence The somewhat ill-defined long-term aim of AI is to build machines that are conscious, self-aware, and sentient; machines capable of the kind of intelligent autonomous action that currently only people are capable of. As an AI researcher with 25 years of experience, professor Mike Wooldridge has learned to be obsessively cautious about such claims, while still promoting an intense optimism about the future of the field. There have been genuine scientific breakthroughs that have made AI systems possible in the past decade that the founders of the field would have hailed as miraculous. Driverless cars and automated translation tools are just two examples of AI technologies that have become a practical, everyday reality in the past few years, and which will have a huge impact on our world. While the dream of conscious machines remains, Professor Wooldridge believes, a distant prospect, the floodgates for AI have opened.

Wooldridge's *A Brief History of Artificial Intelligence* is an exciting romp through the history of this groundbreaking field--a one-stop-shop for AI's past, present, and world-changing future. *The Rise of Machine Intelligence* Del Rey Explores universal questions about humanity's capacity for living and thriving in the coming age of sentient machines and AI, examining debates from opposing perspectives while discussing emerging intellectual diversity and its potential role in enabling a positive life. [Artificial Intelligence and the Problem of Control](#) Yale University Press Excitement and momentum in artificial intelligence (AI) and machine learning has been accelerating with a global AI race in progress. After spending a decade on the front lines of the AI revolution, the author discovered the one key ingredient that was missing from mainstream AI research - humans! This book explains how augmenting humans, combining human intuition and artificial intelligence, will herald an unprecedented era of productivity and financial success. The coming wave

of human centered AI will help us solve the biggest problems facing humanity while also protecting us from rogue or weaponized AI systems. It includes a framework for creating hybrid solutions combining AI, machine learning, and human intuition that can, predict the future, improve our social lives, eliminate scarcity, and provide a clear roadmap to abundance and prosperity in the financial, health, and relationship industries that represents trillions in economic opportunity over the next decade.

### **Artificial General Intelligence 2008**

Currency

Super-Intelligent Machines combines neuroscience and computer science to analyze future intelligent machines. It describes how they will mimic the learning structures of human brains to serve billions of people via the network, and the superior level of consciousness this will give them. Whereas human learning is reinforced by self-interests, this book describes the selfless and compassionate values that must drive machine learning in order to protect human society. Technology will change life much more in the

twenty-first century than it has in the twentieth, and Super-Intelligent Machines explains how that can be an advantage. *AI and the Singularity* Simon and Schuster  
A documentary filmmaker, bringing together Artificial Intelligence experts from around the world, explores the terrifying possibility of catastrophic outcomes once we share the planet with intelligent machines who are smarter and more powerful than we could ever have imagined. 25,000 first printing.

### **Superintelligence**

Marshall Cavendish International Asia Pte Ltd  
Artificial Intelligence (AI) is reality. The Fourth Industrial Revolution, or a Robot Apocalypse depending on whom you ask, is already underway. The transition has already started. But what it means in terms of leadership? How should leaders prepare for the dramatic shifts in the global workforce? The authors, emerging technology risk researchers and practitioners, demystify the processes behind this revolution. Rather than offering another sensationalistic, panic-inducing view on AI – or its overly-optimistic

alternative – the authors explain the reality of AI implementation in business environments. The transformed economy will need a new kind of executives – motivators, innovators and social experimenters – those that have, paradoxically, developed their distinctly human skills. The Future of Leadership in the Age of AI clarifies those new roles and makes the transition easier.

*The Sentient Machine*  
HarperCollins

Originally published in 1980, this title looks at the mental processes involved in producing and understanding spoken language. Although there had been several edited volumes on speech in the previous ten years, this volume was unique in that it deals exclusively with perception and production of fluent speech. The chapters in this volume, contributed to by distinguished scientists from psychology, linguistics and computer science, deal with such questions as: How are ideas encoded into sound? How does a speaker plan an utterance? How are words recognized? What is the role of knowledge in speech perception? In short, how do people

communicate with each other using speech?

*The Rise of the Robots* IOS Press

I am very much aware that it is an act of extreme rashness to attempt to write an elementary book about structures. Indeed it is only when the subject is stripped of its mathematics that one begins to realize how difficult it is to pin down and describe those structural concepts which are often called 'elementary'; by which I suppose we mean 'basic' or 'fundamental'. Some of the omissions and oversimplifications are intentional but no doubt some of them are due to my own brute ignorance and lack of understanding of the subject. Although this volume is more or less a sequel to *The New Science of Strong Materials* it can be read as an entirely separate book in its own right. For this reason a certain amount of repetition has been unavoidable in the earlier chapters. I have to thank a great many people for factual information, suggestions and for stimulating and sometimes heated discussions. Among the living, my colleagues at

Reading University have been generous with help, notably Professor W. D. Biggs (Professor of Building Technology), Dr Richard Chaplin, Dr Giorgio Jeronimidis, Dr Julian Vincent and Dr Henry Blyth; Professor Anthony Flew, Professor of Philosophy, made useful suggestions about the last chapter. I am also grateful to Mr John Bartlett, Consultant Neurosurgeon at the Brook Hospital. Professor T. P. Hughes of the University of the West Indies has been helpful about rockets and many other things besides. My secretary, Mrs Jean Collins, was a great help in times of trouble. Mrs Nethercot of Vogue was kind to me about dressmaking. Mr Gerald Leach and also many of the editorial staff of Penguins have exercised their accustomed patience and helpfulness. Among the dead, I owe a great deal to Dr Mark Pryor - lately of Trinity College, Cambridge - especially for discussions about biomechanics which extended over a period of nearly thirty years. Lastly, for reasons which must surely be obvious, I owe a humble oblation to Herodotus, once a citizen of Halicamassus.

### **Preparing Your**

### **Leadership Skills for the AI-Shaped Future of Work**

Routledge Intelligent algorithms are already well on their way to making white collar jobs obsolete: travel agents, data-analysts, and paralegals are currently in the firing line. In the near future, doctors, taxi-drivers and ironically even computer programmers are poised to be replaced by 'robots'. Without a radical reassessment of our economic and political structures, we risk the very implosion of the capitalist economy itself. In *The Rise of the Robots*, technology expert Martin Ford systematically outlines the achievements of artificial intelligence and uses a wealth of economic data to illustrate the terrifying societal implications. From health and education to finance and technology, his warning is stark - all jobs that are on some level routine are likely to eventually be automated, resulting in the death of traditional careers and a hollowed-out middle class. The robots are coming and we have to decide - now - whether the future will bring prosperity or catastrophe.

*Radical Abundance* Oxford University Press

A leading artificial intelligence researcher lays out a new approach to AI that will enable people to coexist successfully with increasingly intelligent machines.

*Proceedings of the First AGI Conference* Springer Science & Business Media  
Elon Musk named Our Final Invention one of 5 books everyone should read about the future A Huffington Post Definitive Tech Book of 2013  
Artificial Intelligence helps choose what books you buy, what movies you see, and even who you date. It puts the "smart" in your smartphone and soon it will drive your car. It makes most of the trades on Wall Street, and controls vital energy, water, and transportation infrastructure. But Artificial Intelligence can also threaten our existence. In as little as a decade, AI could match and then surpass human intelligence. Corporations and government agencies are pouring billions into achieving AI's Holy Grail—human-level intelligence. Once AI has attained it, scientists argue, it will have survival drives much like our own. We may be forced to compete with a rival more cunning, more powerful,

and more alien than we can imagine. Through profiles of tech visionaries, industry watchdogs, and groundbreaking AI systems, *Our Final Invention* explores the perils of the heedless pursuit of advanced AI. Until now, human intelligence has had no rival. Can we coexist with beings whose intelligence dwarfs our own? And will they allow us to?

[Genetic Engineering and the Future of Humanity](#)  
Vintage

The definitive novel of today's Silicon Valley, *After On* flash-captures our cultural and technological moment with up-to-the-instant savvy. Matters of privacy and government intrusion, post-Tinder romance, nihilistic terrorism, artificial consciousness, synthetic biology, and much more are tackled with authority and brash playfulness by New York Times bestselling author Rob Reid. Meet Phluttr—a diabolically addictive new social network and a villainess, heroine, enemy, and/or bestie to millions. Phluttr has ingested every fact and message ever sent to, from, and about her innumerable users. Her capabilities astound her

makers—and they don't even know the tenth of it. But what's the purpose of this stunning creation? Is it a front for something even darker and more powerful than the NSA? A bid to create a trillion-dollar market by becoming "The UberX of Sex"? Or a reckless experiment that could spawn the digital equivalent of a middle-school mean girl with enough charisma, dirt, and cunning to bend the entire planet to her will? Phluttr has it in her to become the greatest gossip, flirt, or matchmaker in history. Or she could cure cancer, bring back *Seinfeld*, then start a nuclear war. Whatever she does, it's not up to us. But a motley band of Silicon Valley entrepreneurs, venture capitalists, and engineers might be able to influence her. *After On* achieves the literary singularity—fusing speculative satire and astonishing reality into a sharp-witted, ferociously believable, IMAX-wide view of our digital age. Praise for *After On* "Rob Reid's mind is like no other known thing in the universe, and this book is a truly spectacular way to discover it."—Chris Anderson, head of TED "An extended philosophy

seminar run by a dozen insane Cold War heads-of-station, three millennial COOs and that guy you went to college with who always had the best weed but never did his laundry."—NPR "An epic cyberthriller peppered with pop-culture references, metadata, and Silicon Valley in-jokes."—Kirkus Reviews "It's rare to find a book that combines laugh-out-loud humor and cutting-edge science with profound philosophical speculation. This is that book."—Analog "[Rob Reid] writes in a humorous and sarcastic style while unveiling a terrifying and frightening scenario that seems all too real."—Associated Press

*Life in the Smart Lane*  
Pegasus Books

"AI and the Technological Singularity: A Fallacy or a Great Opportunity" is a collection of essays that addresses the question of whether the technological singularity—the notion that AI-based computers can program the next generation of AI-based computers until a singularity is achieved, where an AI-based computer can exceed human intelligence—is a fallacy or a great opportunity. The group of



scholars that address this question have a variety of positions on the singularity, ranging from advocates to skeptics. No conclusion can be reached, as the development of artificial intelligence is still in its

infancy, and there is much wishful thinking and imagination in this issue rather than trustworthy data. The reader will find a cogent summary of the issues faced by researchers who are working to develop the field of artificial

intelligence and, in particular, artificial general intelligence. The only conclusion that can be reached is that there exists a variety of well-argued positions as to where AI research is headed.

Related with Our Final Invention Artificial Intelligence And The End Of Human Era James Barrat:

- How Hard Is Multivariable Calculus : [click here](#)