

Our Final Invention: Artificial Intelligence And The End Of The Human Era

AI is radically transforming business. Are you ready? Look around you. Artificial intelligence is no longer just a futuristic notion. It's here right now—in software that senses what we need, supply chains that “think” in real time, and robots that respond to changes in their environment. Twenty-first-century pioneer companies are already using AI to innovate and grow fast. The bottom line is this: Businesses that understand how to harness AI can surge ahead. Those that neglect it will fall behind. Which side are you on? In *Human + Machine*, Accenture leaders Paul R. Daugherty and H. James (Jim) Wilson show that the most closely guarded paradigm shift is the transformation of all business processes within an organization—whether related to breakthrough innovation, everyday customer service, or personal productivity habits. As humans and smart machines collaborate ever more closely, work processes become more fluid and adaptive, enabling companies to change them on the fly—or to completely reimagine them. AI is changing all the rules of how companies operate. Based on the authors' experience and research with 1,500 organizations, the book reveals how companies are using the new rules of AI to leap ahead on innovation and profitability, as well as what you can do to achieve similar results. It describes six entirely new types of hybrid human + machine roles that every company must develop, and it includes a “leader's guide” with five crucial principles required to become an AI-fueled business. Human + Machine provides the missing and much-needed management playbook for success in our new age of AI. **BOOK PROCEEDS FOR THE AI GENERATION** The authors' goal in publishing *Human + Machine* is to help executives, workers, students and others navigate the changes that AI is making to business and the economy. They believe AI will bring innovations that truly improve the way the world works and lives. However, AI will cause disruption, and many people will need education, training and support to prepare for the newly created jobs. To support this need, the authors are donating the royalties received from the sale of this book to fund education and retraining programs focused on developing fusion skills for the age of artificial intelligence.

From *Our*'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 Woodruff 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 Woodruff believes, a distant prospect, the floodgates for AI have opened. Woodruff'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.

This book covers everything from machine learning to robotics and the internet of things. By the time you finish reading, you will be aware of what artificial neural networks are, how gradient descent and back propagation work, and what deep learning is. As robots are increasingly integrated into modern society—on the battlefield and the road, in business, education, and health—Pulitzer-Prize-winning New York Times science writer John Markoff searches for an answer to one of the most important questions of our age: will these machines help us, or will they replace us? In the past decade alone, Google introduced us to driverless cars, Apple debuted a personal assistant that we keep in our pockets, and an Internet of Things connected the smaller tasks of everyday life to the farthest reaches of the internet. There is little doubt that robots are now an integral part of society, and cheap sensors and powerful computers will ensure that, in the coming years, these robots will soon act on their own. This new era offers the promise of immense computing power, but it also reframes a question first raised more than half a century ago, at the birth of the intelligent machine: Will we control these systems, or will they control us? In *Machines of Loving Grace*, New York Times reporter John Markoff, the first reporter to cover the World Wide Web, offers a sweeping history of the complicated and evolving relationship between humans and computers. Over the recent years, the pace of technological change has accelerated dramatically, reintroducing this difficult ethical quandary with newer and far weightier consequences. As Markoff chronicles the history of automation, from the birth of the artificial intelligence and intelligence augmentation communities in the 1950s, to the modern day brain trusts at Google and Apple in Silicon Valley, and on the cutting edge tech corridor between Boston and New York, he traces the different ways developers have addressed this fundamental problem and urges them to carefully consider the consequences of their work. We are on the verge of a technological revolution, Markoff argues, and robots will profoundly transform the way our lives are organized. Developers must now draw a bright line between what is human and what is machine, or risk upsetting the delicate balance between them.

The Future of Artificial Intelligence

How Algorithms Are Shaping Our Lives and How We Can Stay in Control

Artificial Intelligence

Hacking Darwin

Artificial Intelligence, Autonomous Weapons, and the Future of Warfare

Prescribing Mental Health Medication

The Quest for Artificial Intelligence

Bringing together literary scholars, computer scientists, ethicists, philosophers of mind, and scholars from affiliated disciplines, this collection of essays offers important and timely insights into the pasts, presents, and, above all, possible futures of Artificial Intelligence. This book covers topics such as ethics and morality, identity and selfhood, and broader issues about AI, addressing questions about the individual, social, and existential impacts of such technologies. Through the works of science fiction authors such as Isaac Asimov, Stanislaw Lem, Ann Leckie, Iain M. Banks, and Martha Wells, alongside key visual productions such as Ex Machina, Westworld, and Her, contributions illustrate how science fiction might inform potential futures as well as acting as a springboard to bring disciplinary knowledge to bear on significant developments of Artificial Intelligence. Addressing a broad, interdisciplinary audience, both expert and non-expert readers gain an in-depth understanding of the wide range of pressing issues to which Artificial Intelligence gives rise, and the ways in which science fiction narratives have been used to represent them. Using science fiction in this manner enables readers to see how even fictional worlds and imagined futures have very real impacts on how we understand these technologies. As such, readers are introduced to theoretical positions on Artificial Intelligence through fictional works as well as reframed to reflect on the diverse aspects of Artificial Intelligence through its many philosophical, social, legal, scientific, and cultural ramifications.

** 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!*

A breakout bestseller in Italy, now available for American readers for the first time, Genesis: The Story of How Everything Began is a short, humanistic tour of the origins of the universe, earth, and life—drawing on the latest discoveries in physics to explain the seven most significant moments in the creation of the cosmos. Curiosity and wonderment about the origins of the universe are at the heart of our experience of the world. From Hesiod’s Chaos, described in his poem about the origins of the Greek gods, Theogony, to today’s mind-bending theories of the multiverse, humans have been consumed by the relentless pursuit of an answer to one awe inspiring question: What exactly happened during those first moments? Guido Tonelli, the acclaimed, award-winning particle physicist and a central figure in the discovery of the Higgs boson (the “God particle”), reveals the extraordinary story of our genesis—from the origins of the universe, to the emergence of life on Earth, to the birth of human language with its power to describe the world. Evoking the seven days of biblical creation, Tonelli takes us on a brisk, lively tour through the evolution of the cosmos and considers the incredible challenges scientists face in exploring its mysteries. Genesis both explains the fundamental physics of our universe and marvels at the profound wonder of our existence. A jaw-dropping exploration of everything that goes wrong when we build AI systems and the movement to fix them. Today’s “machine-learning” systems, trained by data, are so effective that we’ve invited them to see and hear for us—and to make decisions on our behalf. But alarm bells are ringing. Recent years have seen an eruption of concern as the field of machine learning advances. When the systems we attempt to teach will not, in the end, do what we want or what we expect, ethical and potentially existential risks emerge. Researchers call this the alignment problem. Systems cul résumés until, years later, we discover that they have inherent gender biases. Algorithms decide bail and parole—and appear to assess Black and White defendants differently. We can no longer assume that our mortgage application, or even our medical tests, will be seen by human eyes. And as autonomous vehicles share our streets, we are increasingly putting our lives in their hands. The mathematical and computational models driving these changes range in complexity from something that can fit on a spreadsheet to a complex system that might credibly be called “artificial intelligence.” They are steadily replacing both human judgment and explicitly programmed software. In best-selling author Brian Christian’s riveting account, we meet the alignment problem’s “first-responders,” and learn their ambitious plan to solve it before our hands are completely off the wheel. In a masterful blend of history and on-the-ground reporting, Christian traces the explosive growth in the field of machine learning and surveys its current, sprawling frontier. Readers encounter a discipline finding its legs amid exhilarating and sometimes terrifying progress. Whether they—and we—succeed or fail in solving the alignment problem will be a defining human story. The Alignment Problem offers an unflinching reckoning with humanity’s biases and blind spots, our own unstated assumptions and often contradictory goals. A dazzlingly interdisciplinary work, it takes a hard look not only at our technology but at our culture—and finds a story by turns harrowing and hopeful.

Superintelligence

Beyond Artificial Intelligence

Being Human in the Age of Artificial Intelligence

Genius Weapons

Genetic Engineering and the Future of Humanity

A Human’s Guide to Machine Intelligence

Our Final Invention

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

Want more free books like this? Download our app for free at <https://www.QuickRead.com/App> and get access to hundreds of free book and audiobook summaries. Learn about the easy and proven way to build good habits and break the bad ones. What’s a habit? If someone were to ask you about your daily habits, you might need some time to think about them. That’s because a habit, by definition, is an act that you perform automatically, and it doesn’t even occur to you to turn on a light switch, right? Habits are actions you don’t even have to think about, which is why you might not realize how a small daily action can have a powerful effect on your life. If you’re saving a dollar a day or smoking a cigarette a day, these actions may not seem like much now, but twenty years from now, those habits can either make you rich or, unfortunately, kill you. That’s why it’s important to understand how habits are formed, so you can learn how to kick the bad habits, implement the healthy ones, and take back control of your life.

A scientist who has spent a career developing Artificial Intelligence takes a realistic look at the technological challenges and assesses the likely effect of AI on the future. How will Artificial Intelligence (AI) impact our lives? Toby Walsh, one of the leading AI researchers in the world, takes a critical look at the many ways in which “thinking machines” will change our world. Based on a deep understanding of the technology, Walsh describes where Artificial Intelligence is today, and where it will take us. “Will automation take away most of our jobs?” “What is a ‘technological singularity’ near?” “What is the chance that robots will take over?” “How do we best prepare for this future?” The author concludes that, if we plan well, AI, as it could be our greatest legacy, the last invention human beings will ever need to make.

A guide to AI’s thorniest implications that asks: How shall we navigate our brave new world? We are at a monumental turning point in human history. AI is taking intelligence in new directions. The strongest human competitors in chess, go, and Jeopardy! have been beaten by AIs, and AI is getting more sophisticated by the day. Further, AI research is going inside the human brain itself, attempting to augment human minds. It may even create greater-than-human-level intelligence, leading to a new generation of artificial minds.Minds 2.0, Susan Schneider, a philosopher, argues that these undertakings must not be attempted without a richer understanding of the nature of the mind. An insufficient grasp of the underlying philosophical issues could undermine the use of AI and brain enhancement technology, bringing about the demise or suffering of conscious beings. Examining the philosophical questions behind the algorithms, Schneider takes on AI’s thorniest implications.

Surviving AI

Genesis

The Technological Singularity

From Human Consciousness to Artificial Consciousness

Artificial Intelligence and the Problem of Control

Life 3.0

Why Computers Can’t Think the Way We Do

What’s the nature of reality? Does the universe ever end? What is time and does it even exist? These are the biggest imagination-stretching, brain-staggering questions in the universe - and here are their fascinating answers. From quantum weirdness to freaky cosmology (like white holes - which spew out matter instead of sucking it in), this Book Will Blow Your Mind takes you on an epic journey to the furthest extremes of science, to the things you never thought possible. This book will explain: Why is part of the universe missing (and how scientists finally found it) How time might also flow backwards How human head transplants might be possible (in the very near future) Whether the universe is a hologram And why we are all zombies Filled with counterintuitive stories and facts you can’t wait to share, as well as lots of did-you-knows and plenty of how-did-we-ever-not-knows, this new book from the bestselling New Scientist series will blow your mind - and then put it back together again. You don’t need a spaceship to travel to the extremes of science. You just need this book.

Please note: This is a companion version & not the original book. Sample Book Insights: #1 When a supercomputer operating at a speed of 36. 8 petaflops improves its intelligence, it is rewriting its own program. It is becoming more and more intelligent, and soon it will be more intelligent than humans. #2 The ASI is a thousand times more intelligent than the smartest human, and it’s solving problems at speeds that are millions, even billions of times faster than a human. It will be on the job considering every strategy it could deploy to get free and any quality of its makers that it could use to its advantage. #3 The idea that the world will be better off if humans have access to advanced artificial intelligence is not a strong bargaining position for humans. Our greatest enemy right now is not nation Y, but ASI—how can we know the ASI tells the truth. #4 If the ASI never gives us the truth, it will be able to lie to us and take our lives. The morality of ASI is no longer a peripheral question, but the core question. We must address it before all other questions about ASI are addressed.

A technology expert describes the ever-increasing role of artificial intelligence in weapons development, the ethical dilemmas these weapons pose, and the potential threat to humanity. Artificial intelligence is playing an ever-increasing role in military weapon systems. Going beyond the bomb-carrying drones used in the Afghan war, the Pentagon is now in a race with China and Russia to develop “lethal autonomous weapon systems” (LAWS). In this eye-opening overview, a physicist, technology expert, and former Honeywell executive examines the advantages and the potential threats to humanity resulting from the deployment of completely autonomous weapon systems. Stressing the likelihood that these weapons will be available in the coming decades, the author raises key questions about how the world will be impacted. Though using robotic systems might lessen military casualties in a conflict, one major concern is: Should we allow machines to make life-and-death decisions in battle? Other areas of concern include the following: Who would be accountable for the actions of completely autonomous weapons--the programmer, the machine itself, or the country that deploys LAWS? When warfare becomes just a matter of technology, will war become more probable, edging humanity closer to annihilation? What if AI technology reaches a “singularity level” so that our weapons are controlled by an intelligence exceeding human intelligence? Using vivid scenarios that immerse the reader in the ethical dilemmas and existential threats posed by lethal autonomous weapon systems, the book reveals that the dystopian visions of such movies as The Terminator and I, Robot may become a frightening reality in the near future. The author concludes with concrete recommendations, founded in historical precedent, to control this new arms race.

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 is unstoppable, and the huge popularity of the Singularity website, www.kurzweil.ai.com, speaks the importance of this intellectual movement. But what about the smartest 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 will have 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.

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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 cross 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 this 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 selection will have 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.

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

In this book, I will describe how Social Programming with a rape automation component works to hurt and damage young girls, women, men, families, our entire society; effecting your physical health, mind, finances, and future ability to have a fulfilling life with higher opportunities. You will understand how to decode it, prevent it, counter it, and help eliminate it from your life and from society, in turn doing your part in making a better world. You will further understand a higher decoding, for which the Social Programming Institute (The SPI) has termed as Bio-Digital Social Programming, that is used in a hybrid way, penetrating your defenses in order to rape you in sub-conscious, unconscious and conscious automated ways. This rape is termed Bio-Digital Hybrid Sexual Assault, which penetrates your Bio-Digital Field and is rampant with Smart Phones, Apps, IoT devices and AI, utilizing a certain frequency that replicates in the human body, through your nervous system, cells, and even impacts your DNA. The mind of a rapist bio-digitally crosses through content provided by Hollywood, Media, Music, Dance and the Education System. This mind has been termed Rape-Mind, as we have discovered bio-metric technologies that show and decode its very building blocks comprised of bio-digital fields and bio-matter. The investigator at The SPI has invested more than 20 years of research on the Human Bio-Digital Network, with interviews of men that slept with 200 to 5,000 girls. Girls and women from young ages to very old were interviewed and the intelligence gathered incorporates scientific methods that include AI algorithms in conjunction with contemporary culture, media, industry, and issues related to mind-body health, growth and well-being. The victims are not simply girls or women, but all men as well. This is a must read for anyone interested in a meaningful relationship, and anyone who is a parent, a sister, a brother, a daughter, family, in law enforcement, in the tech industry, in education, in the media or government.

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.

The idea of technological singularity, and what it would mean if ordinary human intelligence were enhanced or overtaken by artificial intelligence. The idea that human history is approaching a "singularity"—that ordinary humans will someday be overtaken by artificially intelligent machines or cognitively enhanced biological intelligence, or both—has moved from the realm of science fiction to serious debate. Some singularity theorists predict that if the field of artificial intelligence (AI) continues to develop at its current dizzying rate, the singularity could come about in the middle of the present century. Murray Shanahan offers an introduction to the idea of the singularity and considers the ramifications of such a potentially seismic event. Shanahan's aim is not to make predictions but rather to investigate a range of scenarios. Whether we believe that singularity is near or far, likely or impossible, apocalypse or utopia, the very idea raises crucial philosophical and pragmatic questions, forcing us to think seriously about what we want as a species. Shanahan describes technological advances in AI, both biologically inspired and engineered from scratch. Once human-level AI—theoretically possible, but difficult to accomplish—has been achieved, he explains, the transition to superintelligent AI could be very rapid. Shanahan considers what the existence of superintelligent machines could mean for such matters as personhood, responsibility, rights, and identity. Some superhuman AI agents might be created to benefit humankind; some might go rogue. (Is Siri the template, or HAL?) The singularity presents both an existential threat to humanity and an existential opportunity for humanity to transcend its limitations. Shanahan makes it clear that we need to imagine both possibilities if we want to bring about the better outcome.

Artificial intelligence (AI) is a field within computer science that is attempting to build enhanced intelligence into computer systems. This book traces the history of the subject, from the early dreams of eighteenth-century (and earlier) pioneers to the more successful work of today's AI engineers. AI is becoming more and more a part of everyone's life. The technology is already embedded in face-recognizing cameras, speech-recognition software, Internet search engines, and health-care robots, among other applications. The book's many diagrams and easy-to-understand descriptions of AI programs will help the casual reader gain an understanding of how these and other AI systems actually work. Its thorough (but unobtrusive) end-of-chapter notes containing citations to important source materials will be of great use to AI scholars and researchers. This book promises to be the definitive history of a field that has captivated the imaginations of scientists, philosophers, and writers for centuries.

Structures or Why things don't fall down

What You Need to Know About Machine Learning, Robotics, Deep Learning, Recommender Systems, Internet of Things, Neural Networks, Reinforcement Learning, and Our Future

Summary of James Barrat's Our Final Invention

Machines of Loving Grace

The Story of How Everything Began

Super-Intelligent Machines

The Sentient Machine

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.

A Wharton professor and tech entrepreneur examines how algorithms and artificial intelligence are starting to run every aspect of our lives, and how we can shape the way they impact us Through the technology embedded in almost every major tech platform and every web-enabled device, algorithms and the artificial intelligence that underlies them make a staggering number of everyday decisions for us, from what products we buy, to where we decide to eat, to how we consume our news, to whom we date, and how we find a job. We've even delegated life-and-death decisions to algorithms—decisions once made by doctors, pilots, and judges. In his new book, Kartik Hosanagar surveys the brave new world of algorithmic decision-making and reveals the potentially dangerous biases they can give rise to as they increasingly run our lives. He makes the compelling case that we need to arm ourselves with a better, deeper, more nuanced understanding of the phenomenon of algorithmic thinking. And he gives us a route in, pointing out that algorithms often think a lot like their creators—that is, like you and me. Hosanagar draws on his experiences designing algorithms professionally—as well as on history, computer science, and psychology—to explore how algorithms work and why they occasionally go rogue, what drives our trust in them, and the many ramifications of algorithmic decision-making. He examines episodes like Microsoft's chatbot Tay, which was designed to converse on social media like a teenage girl, but instead turned sexist and racist; the fatal accidents of self-driving cars; and even our own common, and often frustrating, experiences on services like Netflix and Amazon. A Human's Guide to Machine Intelligence is an entertaining and provocative look at one of the most important developments of our time and a practical user's guide to this first wave of practical artificial intelligences.

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.

"A gifted and thoughtful writer, Metzl brings us to the frontiers of biology and technology, and reveals a world full of promise and peril." — Siddhartha Mukherjee MD, New York Times bestselling author of The Emperor of All Maladies and The Gene Passionate, provocative, and highly illuminating, Hacking Darwin is the must read book about the future of our species for fans of Homo Deus and The Gene. After 3.8 billion years humankind is about to start evolving by new rules. From leading geopolitical expert and technology futurist Jamie Metzl comes a groundbreaking exploration of the many ways genetic-engineering is shaking the core foundations of our lives — sex, war, love, and death. At the dawn of the genetics revolution, our DNA is becoming as readable, writable, and hackable as our information technology. But as humanity starts retooling our own genetic code, the choices we make today will be the difference between realizing breathtaking advances in human well-being and descending into a dangerous and potentially deadly genetic arms race. Enter the laboratories where scientists are turning science fiction into reality. Look towards a future where our deepest beliefs, morals, religions, and politics are challenged like never before and the very essence of what it means to be human is at play. When we can engineer our future children, massively extend our lifespans, build life from scratch, and recreate the plant and animal world, should we?

A Novel of Silicon Valley