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Novacene Verso Books

A fascinating new study from the originator of the Gaia Theory, “who conceived the first wholly new way of looking at life on earth since Charles Darwin” (Independent) One of the world’s leading scientific thinkers offers a vision of a future epoch in which humans and artificial intelligence

unite to save the Earth James Lovelock, creator of the Gaia hypothesis and the greatest environmental thinker of our time, has produced an astounding new theory about future of life on Earth. He argues that the Anthropocene—the age in which humans acquired planetary-scale technologies—is, after 300 years, coming to an end. A new age—the Novacene—has already begun. In the Novacene, new beings will emerge from existing artificial intelligence systems. They will think 10,000 times faster than we do and they will regard us as we now regard plants. But this will not be the cruel, violent machine takeover of the planet imagined by science fiction. These hyperintelligent beings will be as dependent on the health of the planet as we are. They will need the planetary cooling system of Gaia to defend them from the increasing heat of the sun as much as we do. And Gaia depends on organic life. We will be partners in this project. It is crucial, Lovelock argues, that the intelligence of Earth survives and prospers. He does not think there are intelligent aliens, so we are the only beings capable of understanding the cosmos. Perhaps, he speculates, the Novacene could even be the beginning of a process that will finally lead to intelligence suffusing the entire cosmos. At the age of 100, James Lovelock has produced the most important and compelling work of his life.

The Singularity Is Near Penguin

"Dazzling." —Financial Times As lives offline and online merge even more, it is easy to forget how we got here. Rise of the Machines reclaims the spectacular story of cybernetics, one of the twentieth century's pivotal ideas. Springing from the mind of mathematician

Norbert Wiener amid the devastation of World War II, the cybernetic vision underpinned a host of seductive myths about the future of machines. Cybernetics triggered blissful cults and military gizmos, the Whole Earth Catalog and the air force's foray into virtual space, as well as crypto-anarchists fighting for internet freedom. In Rise of the Machines, Thomas Rid draws on unpublished sources—including interviews with hippies, anarchists, sleuths, and spies—to offer an unparalleled perspective into our anxious embrace of technology.

Man vs. Machine
HarperBusiness
Will the workplace of the future be overrun by machines and robots? Are the new frontiers of artificial intelligence (AI) on the cusp of dethroning us in efficiency, intelligence and innovative potential? Automation and AI will augment our human world and potential. The winners of the future of work are those that harness the power of machines to their advantage. Human/Machine is the only guide you need to understand the fourth industrial revolution. It sets out a road map to the challenges ahead, but also unlocks the wondrous opportunities that it offers. Human/Machine explores how we will work symbiotically with machines, detailing how institutions, companies, individuals and education providers will evolve to integrate seamlessly with new technologies. With exclusive case studies, this book offers a glimpse into the future and details how top companies are already thriving on this very special relationship. From gamification in job training to project management teams integrated with bots and predictive technologies that fix problems in the supply chain before they happen, the authors deliver a powerful manifesto for the adoption and celebration of automation and AI. In a much more fluid, skills-based economy, we will all need to

prove our worth and future-proof our skills base. This book offers a blueprint to avoid being left behind and unearth the opportunities unique to human-machine partnership ecosystems.

Humans Need Not Apply Kogan Page Publishers

A clear-eyed look at how AI can complement (rather than eliminate) human jobs, with real-world examples from companies that range from Netflix to Walmart. Descriptions of AI's possible effects on businesses and their employees cycle between utopian hype and alarmist doomsaying. This book from MIT Sloan Management Review avoids both these extremes, providing instead a clear-eyed look at how AI can complement (rather than eliminate) human jobs, with real-world examples from companies that range from Netflix to Walmart. The contributors show that organizations can create business value with AI by cooperating with it rather than relinquishing control to it. The smartest companies know that they don't need AI that mimics humans because they already have access to resources with human capability—actual humans. The book acknowledges the prominent role of such leading technology companies as Facebook, Apple, Amazon, Netflix, and Google in applying AI to their businesses, but it goes beyond the FAANG cohort to look at AI applications in many nontechnology companies, including DHL and Fidelity. The chapters address such topics as retraining workers (who may be more ready for change than their companies are);

the importance of motivated and knowledgeable leaders; the danger that AI will entrench less-than-ideal legacy processes; ways that AI could promote gender equality and diversity; AI and the global loneliness epidemic; and the benefits of robot – human collaboration. Contributors Cynthia M. Beath, Megan Beck, Joe Biron, Erik Brynjolfsson, Jacques Bughin, Rumman Chowdhury, Paul R. Daugherty, Thomas H. Davenport, Chris DeBrusk, Berkeley J. Dietvorst, Janet Foutty, James R. Freeland, R. Edward Freeman, Julian Friedland, Lynda Gratton, Francis Hintermann, Vivek Katyal, David Kiron, Frieda Klotz, Jonathan Lang, Barry Libert, Paul Michelman, Daniel Rock, Sam Ransbotham, Jeanne W. Ross, Eva Sage-Gavin, Chad Syverson, Monideepa Tarafdar, Gregory Unruh, Madhu Vazirani, H. James Wilson

Rise of the Machines: A Cybernetic History W. W. Norton & Company

It's easy to imagine a nightmare scenario in which computers simply take over most of the tasks that people now get paid to do. The unavoidable question—will millions of people lose out, unable to best the machine?—is increasingly dominating business, education, economics, and policy. The bestselling author of Talent Is Overrated explains how the skills and economy values are

changing in historic ways and offers a guide to what's next for all workers. Mastering technical skills that have historically been in demand no longer differentiates us as it used to. Instead, our greatest advantage lies in our deepest, most essentially human abilities—empathy, creativity, social sensitivity, storytelling, humor, relationship building, and expressing ourselves with greater power than logic can ever achieve. These high-value skills craete tremendous competitive advantage—more devoted customers, stronger cultures, breakthrough ideas, and more effective teams. And while many of us regard these abilities as innate traits, it turns out they can all be developed. As Colvin shows, they're already being developed in a range of farsighted organizations, including the Cleveland Clinic, the U.S. Army, and Stanford Business School.

New Laws of Robotics

Penguin

The New York Times-bestselling guide to how automation is changing the economy, undermining work, and reshaping our lives Winner

of Best Business Book of the Year awards from the Financial Times and from Forbes "Lucid, comprehensive, and unafraid...;an indispensable contribution to a long-running argument."--Los Angeles Times What are the jobs of the future? How many will there be? And who will have them? As technology continues to accelerate and machines begin taking care of themselves, fewer people will be necessary. Artificial intelligence is already well on its way to making "good jobs" obsolete: many paralegals, journalists, office workers, and even computer programmers are poised to be replaced by robots and smart software. As progress continues, blue and white collar jobs alike will evaporate, squeezing working- and middle-class families ever further. At the same time, households are under assault from exploding costs, especially from the two major industries- education and health care- that, so far, have not been transformed by information technology. The result could well be massive unemployment and inequality as well as the implosion of the consumer economy itself. The past solutions to technological disruption, especially more training and education, aren't going to work. We must decide, now, whether the future will see broad-based prosperity or catastrophic levels of inequality and economic

insecurity. Rise of the Robots is essential reading to understand what accelerating technology means for our economic prospects-not to mention those of our children-as well as for society as a whole.

Human-in-the-Loop Machine Learning SCB Distributors

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 li fe-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 intelligence.

A Human's Guide to Machine Intelligence

Springer

An invigorating, thought-provoking, and positive look at the rise of automation that explores how professionals across industries can find sustainable careers in the near future. Nearly half of all working Americans could risk losing their jobs because of technology. It’s not only blue-collar jobs at stake. Millions of educated knowledge workers—writers, paralegals, assistants, medical technicians—are threatened by accelerating advances in artificial intelligence. The industrial revolution shifted workers from farms to factories. In the first era of automation, machines relieved humans of manually exhausting work. Today, Era Two of automation continues to

wash across the entire services-based economy that has replaced jobs in agriculture and manufacturing. Era Three, and the rise of AI, is dawning. Smart computers are demonstrating they are capable of making better decisions than humans. Brilliant technologies can now decide, learn, predict, and even comprehend much faster and more accurately than the human brain, and their progress is accelerating. Where will this leave lawyers, nurses, teachers, and editors? In Only Humans Need Apply, Thomas Hayes Davenport and Julia Kirby reframe the conversation about automation, arguing that the future of increased productivity and business success isn't either human or machine. It's both. The key is augmentation, utilizing technology to help humans work better, smarter, and faster. Instead of viewing these machines as competitive interlopers, we can see them as partners and collaborators in creative problem solving as we move into the next era. The choice is ours.

Ghost Fleet Penguin

Sentient animals, machines, and robots abound in German literature and culture; they have carried complex cultural and emotional meanings as heuristic tools to interrogate the essence of being human. This

volume extends interdisciplinary emotions re

God, Human, Animal, Machine

Farrar, Straus and Giroux

Former private investigator and New York Times notable author David Corbett offers a unique and indispensable toolkit for creating characters that come vividly to life on the page and linger in memory. Corbett provides an inventive, inspiring, and vastly entertaining blueprint to all the elements of characterization-from initial inspiration to realization-with special insights into the power of secrets and contradictions, the embodiment of roles, managing the "tyranny of motive," and mastering crucial techniques required for memorable dialogue and unforgettable scenes. This is a how-to guide for both aspiring and accomplished writers that renders all other books of its kind obsolete.

MIT Press

“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 know ledge-sharing ability of our creations.

AI Narratives de Gruyter Man vs. Machine Technology continues to advance at a rapid pace. It may sound quaint today, but not so long ago, computers battled

humans for supremacy at the game of chess. The challenge of building a computer program capable of defeating the best of human-kind at chess was one of the original grand challenges of the fledgling field of artificial intelligence. On one side were dedicated scientists and hobbyists who invested decades of effort developing the software and hardware technology; on the other side were incredibly talented humans with only their determination and preparation to withstand the onslaught of technology. The man versus machine battle in chess is a landmark in the history of technology. There are numerous books that document the technical aspects of this epic story. The human side is not often told. Few chess players are inclined to write about their man-machine encounters, other than annotating the games played. This book brings the two sides together. It tells the stories of many of the key scientists and chess players that participated in a 50-year research project to advance the

understanding of computing technology. “Grandmaster Karsten Müller and Professor Jonathan Schaeffer have managed to describe the fascinating history of the unequal fight of man against machine in an entertaining and instructive way. It evoked pleasant and not so pleasant memories of my own fights against the monsters. I hope that their work gives you as much pleasure as it has given me.” – From the Foreword by Vladimir Kramnik, 14th World Chess Champion

Smarter Than Us (Print)

Simon and Schuster

This book is the first to examine the history of imaginative thinking about intelligent machines. As real Artificial Intelligence (AI) begins to touch on all aspects of our lives, this long narrative history shapes how the technology is developed, deployed and regulated. It is therefore a crucial social and ethical issue. Part I of this book provides a historical overview from ancient Greece to the start of

modernity. These chapters explore the revealing pre-history of key concerns of contemporary AI discourse, from the nature of mind and creativity to issues of power and rights, from the tension between fascination and ambivalence to investigations into artificial voices and technophobia. Part II focuses on the twentieth and twenty-first-centuries in which a greater density of narratives emerge alongside rapid developments in AI technology. These chapters reveal not only how AI narratives have consistently been entangled with the emergence of real robotics and AI, but also how they offer a rich source of insight into how we might live with these revolutionary machines. Through their close textual engagements, these chapters explore the relationship between imaginative narratives and contemporary debates about AI's social, ethical and

philosophical consequences, including questions of dehumanization, automation, anthropomorphisation, cybernetics, cyberpunk, immortality, slavery, and governance. The contributions, from leading humanities and social science scholars, show that narratives about AI offer a crucial epistemic site for exploring contemporary debates about these powerful new technologies.

Humans Are Underrated HarperCollins What does "cyber" even mean? And where does the idea come from? We live in an age increasingly defined by technology. But as we check our emails, board a plane, or read about the latest Russian hack, we rarely ask how the ideas that shaped our modern world originated. Thomas Rid's revelatory history of cybernetics pulls together disparate threads in the history of technology: from the invention of radar and pilotless flying bombs in World War Two, to artificial intelligence, virtual

reality, cryptocurrencies, and present day fears about cyber security. *How Humans Judge Machines* W. W. Norton & Company Are we really on the brink of having robots to mop our floors, do our dishes, mow our lawns, and clean our windows? And are researchers that close to creating robots that can think, feel, repair themselves, and even reproduce? Rodney A. Brooks, director of the MIT Artificial Intelligence Laboratory believes we are. In this lucid and accessible book, Brooks vividly depicts the history of robots and explores the ever-changing relationships between humans and their technological brethren, speculating on the growing role that robots will play in our existence. Knowing the moral battle likely to ensue, he posits a clear philosophical argument as to why we should not fear that change. What results is a fascinating book that offers a deeper understandin

g of who we are and how we can control what we will become.

Human/Machine Routledge

Ray Kurzweil is the inventor of the most innovative and compelling technology of our era, an international authority on artificial intelligence, and one of our greatest living visionaries. Now he offers a framework for envisioning the twenty-first century--an age in which the marriage of human sensitivity and artificial intelligence fundamentally alters and improves the way we live. Kurzweil's prophetic blueprint for the future takes us through the advances that inexorably result in computers exceeding the memory capacity and computational ability of the human brain by the year 2020 (with human-level capabilities not far behind); in relationships with automated personalities who will be our teachers, companions, and lovers; and in information fed straight into our brains along direct neural pathways. Optimistic and challenging, th ought-provoking and engaging, The Age of Spiritual Machines is the ultimate guide on our road into the next century.

The Second Machine Age: Work, Progress, and Prosperity in a Time of Brilliant Technologies

History of Military

Aviation

A strikingly original exploration of what it might mean to be authentically human in the age of artificial intelligence, from the author of the critically-acclaimed Interior States.

"Meghan O’Gieblyn is a brilliant and humble philosopher, and her book is an explosively t hought-provoking, candidly personal ride I wished never to end ... This book is such an original synthesis of ideas and disclosures. It introduces what will soon be called the O’Gieblyn genre of essay writing.” —Heidi Julavits, author of The Folded Clock For most of human history the world was a magical and enchanted place ruled by forces beyond our understanding . The rise of science and Descartes's division of mind from world made materialism our ruling paradigm, in the process asking whether our own conscious ness—i.e., souls—might be illusions. Now the inexorable rise of technology, with artificial intelligences that surpass our comprehension and control, and the spread of digital metaphors for

self-understanding, the core questions of existence—identity, knowledge, the very nature and purpose of life itself—urgently require rethinking. Meghan O'Gieblyn tackles this challenge with philosophical rigor, intellectual reach, essayistic verve, refreshing originality, and an ironic sense of contradiction. She draws deeply and sometimes humorously from her own personal experience as a formerly religious believer still haunted by questions of faith, and she serves as the best possible guide to navigating the territory we are all entering. *Human Work in the Age of Smart Machines* Oxford University Press, USA 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.

Species and Machines HarperCollins Two authorities on future warfare join forces to create a taut, convincing novel—set in 2026—about a besieged America battling for its very existence.

Rise of the War Machines Oxford University Press, USA Machine learning applications perform better with human feedback. Keeping the right people in the loop improves the accuracy of models, reduces errors in data, lowers costs, and helps you ship models faster. Human-in-the-loop machine learning lays out methods for humans and machines to work together effectively. You'll find best practices on selecting sample data for human feedback, quality control for human annotations, and designing annotation interfaces. You'll learn to dreate

training data for labeling, object detection, and semantic segmentation, sequence labeling, and more. The book starts with the basics and progresses to advanced techniques like transfer learning and self-supervision within annotation workflows.