
Automate This How Algorithms Came To Rule Our World Christopher Steiner

We Are Data

The Cambridge Handbook of the Law of Algorithms

Automate this

After the Trade Is Made, Revised Ed.

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*Automate This How
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ASHTYN ANTONY

We Are Data Cambridge University Press
Algorithms are a fundamental building block of artificial intelligence - and, increasingly, society - but our legal institutions have largely failed to recognize or respond to this reality. The Cambridge Handbook of the Law of

Algorithms, which features contributions from US, EU, and Asian legal scholars, discusses the specific challenges algorithms pose not only to current law, but also - as algorithms replace people as decision makers - to the foundations of society itself. The work includes wide coverage of the law as it relates to algorithms, with chapters analyzing how human biases have crept into algorithmic decision-making about who receives housing or credit, the length of

sentences for defendants convicted of crimes, and many other decisions that impact constitutionally protected groups. Other issues covered in the work include the impact of algorithms on the law of free speech, intellectual property, and commercial and human rights law.

The Cambridge Handbook of the Law of Algorithms Oxford University Press

Staying true to his trademark journalistic approach, Andrés Oppenheimer takes his readers on yet another journey, this time across the globe, in a thought-provoking search to understand what the future holds for today's jobs in the foreseeable age of automation. *The Robots Are Coming!* centers around the issue of jobs and their future in the context of rapid automation and the

growth of online products and services. As two of Oppenheimer's interviewees -- both experts in technology and economics from Oxford University -- indicate, forty-seven percent of existing jobs are at risk of becoming automated or rendered obsolete by other technological changes in the next twenty years. Oppenheimer examines current changes in several fields, including the food business, legal work, banking, and medicine, speaking with experts in the field, and citing articles and literature on automation in various areas of the workforce. He contrasts the perspectives of "techno-optimists" with those of "techno-negativists" and generally attempts to find a middle ground between an alarmist vision of the future, and one that is too uncritical. A self-

described "cautious optimist", Oppenheimer believes that technology will not create massive unemployment, but rather will drastically change what work looks like.

Penguin

WINNER: The 2018 McGannon Center Book Prize and shortlisted for the Goddard Riverside Stephan Russo Book Prize for Social Justice The New York Times Book Review: "Riveting." Naomi Klein: "This book is downright scary." Ethan Zuckerman, MIT: "Should be required reading." Dorothy Roberts, author of *Killing the Black Body*: "A must-read." Astra Taylor, author of *The People's Platform*: "The single most important book about technology you will read this year." Cory Doctorow: "Indispensable." A powerful investigative

look at data-based discrimination—and how technology affects civil and human rights and economic equity The State of Indiana denies one million applications for healthcare, foodstamps and cash benefits in three years—because a new computer system interprets any mistake as "failure to cooperate." In Los Angeles, an algorithm calculates the comparative vulnerability of tens of thousands of homeless people in order to prioritize them for an inadequate pool of housing resources. In Pittsburgh, a child welfare agency uses a statistical model to try to predict which children might be future victims of abuse or neglect. Since the dawn of the digital age, decision-making in finance, employment, politics, health and human services has undergone revolutionary change. Today, automated

systems—rather than humans—control which neighborhoods get policed, which families attain needed resources, and who is investigated for fraud. While we all live under this new regime of data, the most invasive and punitive systems are aimed at the poor. In *Automating Inequality*, Virginia Eubanks systematically investigates the impacts of data mining, policy algorithms, and predictive risk models on poor and working-class people in America. The book is full of heart-wrenching and eye-opening stories, from a woman in Indiana whose benefits are literally cut off as she lays dying to a family in Pennsylvania in daily fear of losing their daughter because they fit a certain statistical profile. The U.S. has always used its most cutting-edge science and

technology to contain, investigate, discipline and punish the destitute. Like the county poorhouse and scientific charity before them, digital tracking and automated decision-making hide poverty from the middle-class public and give the nation the ethical distance it needs to make inhumane choices: which families get food and which starve, who has housing and who remains homeless, and which families are broken up by the state. In the process, they weaken democracy and betray our most cherished national values. This deeply researched and passionate book could not be more timely.

Automate this Syngress

Introduces machine learning and its algorithmic paradigms, explaining the principles behind automated learning

approaches and the considerations underlying their usage.

After the Trade Is Made, Revised Ed. NYU Press

Understanding how a multicellular animal develops from a single cell (the fertilized egg) poses one of the greatest challenges in biology today.

Development from egg to adult involves the sequential expression of virtually the whole of an organism's genetic instructions both in the mother as she lays down developmental cues in the egg, and in the embryo itself. Most of our present information on the role of genes in development comes from the invertebrate fruit fly, *Drosophila*. The two authors of this text (amongst the foremost authorities in the world) follow the developmental process from

fertilization through the primitive structural development of the body plan of the fly after cleavage into the differentiation of the variety of tissues, organs and body parts that together define the fly. The developmental processes are fully explained throughout the text in the modern language of molecular biology and genetics. This text represents the vital synthesis of the subject that many have been waiting for and it will enable many specific courses in developmental biology and molecular genetics to focus on it. It will appeal to 2nd and 3rd year students in these disciplines as well as in biochemistry, neurobiology and zoology. It will also have widespread appeal among researchers. Authored by one of the foremost authorities in the world. A

unique synthesis of the developmental cycle of *Drosophila* - our major source of information on the role of genes in development. Designed to provide the basis of new courses in developmental biology and molecular genetics at senior undergraduate level. A lucid explanation in the modern language of the science.

A Human Algorithm Black Swan

Our civilization runs on software. Yet the art of creating it continues to be a dark mystery, even to the experts. To find out why it's so hard to bend computers to our will, Scott Rosenberg spent three years following a team of maverick software developers—led by Lotus 1-2-3 creator Mitch Kapor—designing a novel personal information manager meant to challenge market leader Microsoft Outlook. Their story takes us through a

maze of abrupt dead ends and exhilarating breakthroughs as they wrestle not only with the abstraction of code, but with the unpredictability of human behavior— especially their own.

Automating the Design of Data Mining Algorithms Springer

How the rise of computerized decision-making affects every aspect of business and daily life The bot takeover began with high frequency trading on Wall Street, and from there it spread to all manners of high-level tasks—such as diagnosing illnesses or interpreting legal documents. There is no realm of human endeavor safe from algorithms that employ speed, precision and nuance. In this fascinating book, Steiner tells the story of how algorithms took over and shows why the “bot revolution” is about

to spill into every aspect of our lives. We meet bots that are driving cars, penning haikus, and writing music mistaken for Bach's. They listen in on customer service calls and figure out what Iran would do in the event of a nuclear standoff. On Wall Street, pre-programmed algorithmic deals are executed by machines faster than any human could—leaving human investors at a severe disadvantage. But what will the world look like when algorithms control our hospitals, our roads, and our national security? Is a stock market controlled by high-speed trading bots worth investing in? And what role will be left for doctors, lawyers, writers, truck drivers, and many others?

Automate the Boring Stuff with Python, 2nd Edition Springer Science

& Business Media

The challenges to humanity posed by the digital future, the first detailed examination of the unprecedented form of power called "surveillance capitalism," and the quest by powerful corporations to predict and control our behavior. In this masterwork of original thinking and research, Shoshana Zuboff provides startling insights into the phenomenon that she has named surveillance capitalism. The stakes could not be higher: a global architecture of behavior modification threatens human nature in the twenty-first century just as industrial capitalism disfigured the natural world in the twentieth. Zuboff vividly brings to life the consequences as surveillance capitalism advances from Silicon Valley into every economic sector. Vast wealth

and power are accumulated in ominous new "behavioral futures markets," where predictions about our behavior are bought and sold, and the production of goods and services is subordinated to a new "means of behavioral modification." The threat has shifted from a totalitarian Big Brother state to a ubiquitous digital architecture: a "Big Other" operating in the interests of surveillance capital. Here is the crucible of an unprecedented form of power marked by extreme concentrations of knowledge and free from democratic oversight. Zuboff's comprehensive and moving analysis lays bare the threats to twenty-first century society: a controlled "hive" of total connection that seduces with promises of total certainty for maximum profit -- at the expense of democracy, freedom,

and our human future. With little resistance from law or society, surveillance capitalism is on the verge of dominating the social order and shaping the digital future -- if we let it.

[The Robots Are Coming!](#) University of Chicago Press

Python Algorithms explains the Python approach to algorithm analysis and design. Written by Magnus Lie Hetland, author of *Beginning Python*, this book is sharply focused on classical algorithms, but it also gives a solid understanding of fundamental algorithmic problem-solving techniques. The book deals with some of the most important and challenging areas of programming and computer science, but in a highly pedagogic and readable manner. The book covers both algorithmic theory and programming

practice, demonstrating how theory is reflected in real Python programs. Well-known algorithms and data structures that are built into the Python language are explained, and the user is shown how to implement and evaluate others himself.

Dreaming in Code Harvard University Press

NEW YORK TIMES BESTSELLER • A former Wall Street quant sounds the alarm on Big Data and the mathematical models that threaten to rip apart our social fabric—with a new afterword “A manual for the twenty-first-century citizen . . . relevant and urgent.”—Financial Times NATIONAL BOOK AWARD LONGLIST • NAMED ONE OF THE BEST BOOKS OF THE YEAR BY The New York Times Book Review • The

Boston Globe • Wired • Fortune • Kirkus Reviews • The Guardian • Nature • On Point We live in the age of the algorithm. Increasingly, the decisions that affect our lives—where we go to school, whether we can get a job or a loan, how much we pay for health insurance—are being made not by humans, but by machines. In theory, this should lead to greater fairness: Everyone is judged according to the same rules. But as mathematician and data scientist Cathy O’Neil reveals, the mathematical models being used today are unregulated and uncontestable, even when they’re wrong. Most troubling, they reinforce discrimination—propping up the lucky, punishing the downtrodden, and undermining our democracy in the process. Welcome to the dark side of Big

Data.

Algorithms of Oppression Cambridge University Press

From deepfakes to GPT-3, deep learning is now powering a new assault on our ability to tell what's real and what's not, bringing a whole new algorithmic side to fake news. On the other hand, remarkable methods are being developed to help automate fact-checking and the detection of fake news and doctored media. Success in the modern business world requires you to understand these algorithmic currents, and to recognize the strengths, limits, and impacts of deep learning---especially when it comes to discerning the truth and differentiating fact from fiction. This book tells the stories of this algorithmic battle for the truth and how it impacts

individuals and society at large. In doing so, it weaves together the human stories and what's at stake here, a simplified technical background on how these algorithms work, and an accessible survey of the research literature exploring these various topics. How Algorithms Create and Prevent Fake News is an accessible, broad account of the various ways that data-driven algorithms have been distorting reality and rendering the truth harder to grasp. From news aggregators to Google searches to YouTube recommendations to Facebook news feeds, the way we obtain information today is filtered through the lens of tech giant algorithms. The way data is collected, labelled, and stored has a big impact on the machine learning algorithms that are

trained on it, and this is a main source of algorithmic bias – which gets amplified in harmful data feedback loops. Don't be afraid: with this book you'll see the remedies and technical solutions that are being applied to oppose these harmful trends. There is hope. What You Will Learn The ways that data labeling and storage impact machine learning and how feedback loops can occur The history and inner-workings of YouTube's recommendation algorithm The state-of-the-art capabilities of AI-powered text generation (GPT-3) and video synthesis/doctoring (deepfakes) and how these technologies have been used so far The algorithmic tools available to help with automated fact-checking and truth-detection Who This Book is For People who don't have a technical

background (in data, computers, etc.) but who would like to learn how algorithms impact society; business leaders who want to know the powers and perils of relying on artificial intelligence. A secondary audience is people with a technical background who want to explore the larger social and societal impact of their work.

How Algorithms Create and Prevent Fake News Penguin

An accessible introduction and essential reference for an approach to machine learning that creates highly accurate prediction rules by combining many weak and inaccurate ones. Boosting is an approach to machine learning based on the idea of creating a highly accurate predictor by combining many weak and inaccurate "rules of thumb." A

remarkably rich theory has evolved around boosting, with connections to a range of topics, including statistics, game theory, convex optimization, and information geometry. Boosting algorithms have also enjoyed practical success in such fields as biology, vision, and speech processing. At various times in its history, boosting has been perceived as mysterious, controversial, even paradoxical. This book, written by the inventors of the method, brings together, organizes, simplifies, and substantially extends two decades of research on boosting, presenting both theory and applications in a way that is accessible to readers from diverse backgrounds while also providing an authoritative reference for advanced researchers. With its introductory

treatment of all material and its inclusion of exercises in every chapter, the book is appropriate for course use as well. The book begins with a general introduction to machine learning algorithms and their analysis; then explores the core theory of boosting, especially its ability to generalize; examines some of the myriad other theoretical viewpoints that help to explain and understand boosting; provides practical extensions of boosting for more complex learning problems; and finally presents a number of advanced theoretical topics. Numerous applications and practical illustrations are offered throughout.

Introduction to Computing and Algorithms Springer

“Refreshingly thought-provoking...” -
The Financial Times The essential

playbook for the future of your business
What To Do When Machines Do
Everything is a guidebook to succeeding
in the next generation of the digital
economy. When systems running on
Artificial Intelligence can drive our cars,
diagnose medical patients, and manage
our finances more effectively than
humans it raises profound questions on
the future of work and how companies
compete. Illustrated with real-world
cases, data, and insight, the authors
provide clear strategic guidance and
actionable steps to help you and your
organization move ahead in a world
where exponentially developing new
technologies are changing how value is
created. Written by a team of business
and technology expert
practitioners—who also authored Code

Halos: How the Digital Lives of People,
Things, and Organizations are Changing
the Rules of Business—this book
provides a clear path to the future of
your work. The first part of the book
examines the once in a generation
upheaval most every organization will
soon face as systems of intelligence go
mainstream. The authors argue that
contrary to the doom and gloom that
surrounds much of IT and business at
the moment, we are in fact on the cusp
of the biggest wave of opportunity
creation since the Industrial Revolution.
Next, the authors detail a clear-cut
business model to help leaders take part
in this coming boom; the AHEAD model
outlines five strategic
initiatives—Automate, Halos, Enhance,
Abundance, and Discovery—that are

central to competing in the next phase of global business by driving new levels of efficiency, customer intimacy and innovation. Business leaders today have two options: be swallowed up by the ongoing technological evolution, or ride the crest of the wave to new profits and better business. This book shows you how to avoid your own extinction event, and will help you; Understand the untold full extent of technology's impact on the way we work and live. Find out where we're headed, and how soon the future will arrive Leverage the new emerging paradigm into a sustainable business advantage Adopt a strategic model for winning in the new economy The digital world is already transforming how we work, live, and shop, how we are governed and entertained, and how we

manage our money, health, security, and relationships. Don't let your business—or your career—get left behind. *What To Do When Machines Do Everything* is your strategic roadmap to a future full of possibility and success. Or peril.

Life by Algorithms MIT Press

“A concise, insightful and sophisticated guide to maintaining humane values in an age of new machines.”—The New York Times Book Review “While we need to rewrite the rules of the twenty-first-century economy, Kevin’s book is a great look at how people can do this on a personal level to always put humanity first.”—Andrew Yang With a new afterword by the author You are being automated. After decades of hype and sci-fi fantasies, artificial intelligence is leaping out of research labs and into the

center of our lives. Automation doesn't just threaten our jobs. It shapes our entire human experience, with AI and algorithms influencing the TV shows we watch, the music we listen to, the beliefs we hold, and the relationships we form. And while the age-old debate over whether automation will destroy jobs rages on, an even more important question is being ignored: How can we be happy, successful humans in a world that is increasingly built by and for machines? In *Futureproof: 9 Rules for Humans in the Age of Automation*, New York Times technology columnist Kevin Roose lays out a hopeful, pragmatic vision for how we can thrive in the age of AI and automation. He shares the secrets of people and organizations that have survived previous waves of

technological change, and explains what skills are necessary to stay ahead of today's intelligent machines, with lessons like • Be surprising, social, and scarce. • Resist machine drift. • Leave handprints. • Demote your devices. • Treat AI like a chimp army. Roose rejects the conventional wisdom that in order to succeed in the AI age, we have to become more like machines ourselves—hyper-efficient, data-driven workhorses. Instead, he says, we should focus on being more human, and doing the kinds of creative, inspiring, and meaningful things even the most advanced robots can't do.

[What To Do When Machines Do Everything](#) PublicAffairs

The fully updated classic guide to the mechanics of securities processing—a

must for professional investors This third edition of *After the Trade Is Made* reflects the changes that have taken place in recent years as a result of new products, technological breakthroughs, and the globalization of the securities industry. Comprehensive and easy to understand, it provides brokers, operations personnel, and individual investors with definitive and up-to-the-minute explanations of each step in the trading process—from the moment a customer decides to buy or sell a security through the final requirements of record keeping. Written for both securities professionals and individual investors, whether domestic or in other countries, this new edition clearly explains the core of underwritings, new and established trading markets,

transaction processing, margin, and more—while providing critical insights into the most recent wave of industry changes. David M. Weiss, a veteran securities professional, traces the entire process of buying or selling a security, from order management to transaction processing to the final posting on the firm's books and records. He covers the specialized attributes of each function in a typical brokerage firm, as well as their relationships with commercial banks, transfer agents, clearing corporations, and depositories. *After the Trade Is Made* is the definitive resource for anyone eager to understand and confidently navigate the vast and often surprising world of securities.

The Algorithm Design Manual Automate This

From driverless cars to pilotless planes, many functions that have previously required human labor can now be performed using artificial intelligence. For businesses, this use of AI results in reduced labor costs and, even more important, creating a competitive advantage. How does one look at any organization and begin the work of automating it in sensible ways? This book provides the blueprint for automating critical business functions of all kinds. It outlines the skills and technologies that must be brought to bear on replicating human-like thinking and judgment in the form of algorithms. Many believe that algorithm design is the exclusive purview of computer scientists and experienced programmers. This book aims to dispel

that notion. An algorithm is merely a set of rules, and anyone with the ability to envision how different components of a business can interact with other components already has the ability to work in algorithms. Though many fear that the use of automation in business means human labor will no longer be needed, the author argues that organizations will re-purpose humans into different roles under the banner of automation, not simply get rid of them. He also identifies parts of business that are best targeted for automation. This book will arm business people with the tools needed to automate companies, making them perform better, move faster, operate cheaper, and provide great lasting value to investors.
Hello World Prentice Hall

The starkly different ways that American and French online news companies respond to audience analytics and what this means for the future of news. When the news moved online, journalists suddenly learned what their audiences actually liked, through algorithmic technologies that scrutinize web traffic and activity. Has this advent of audience metrics changed journalists' work practices and professional identities? In *Metrics at Work*, Angèle Christin documents the ways that journalists grapple with audience data in the form of clicks, and analyzes how new forms of clickbait journalism travel across national borders. Drawing on four years of fieldwork in web newsrooms in the United States and France, including more than one hundred interviews with

journalists, Christin reveals many similarities among the media groups examined—their editorial goals, technological tools, and even office furniture. Yet she uncovers crucial and paradoxical differences in how American and French journalists understand audience analytics and how these affect the news produced in each country. American journalists routinely disregard traffic numbers and primarily rely on the opinion of their peers to define journalistic quality. Meanwhile, French journalists fixate on internet traffic and view these numbers as a sign of their resonance in the public sphere. Christin offers cultural and historical explanations for these disparities, arguing that distinct journalistic traditions structure how journalists make

sense of digital measurements in the two countries. Contrary to the popular belief that analytics and algorithms are globally homogenizing forces, Metrics at Work shows that computational technologies can have surprisingly divergent ramifications for work and organizations worldwide.

ALGORITHMS VLSI DESIGN AUTOMATION

NYU Press

The rousing story of the last gasp of human agency and how today's best and brightest minds are endeavoring to put an end to it. It used to be that to diagnose an illness, interpret legal documents, analyze foreign policy, or write a newspaper article you needed a human being with specific skills—and maybe an advanced degree or two. These days, high-level tasks are

increasingly being handled by algorithms that can do precise work not only with speed but also with nuance. These “bots” started with human programming and logic, but now their reach extends beyond what their creators ever expected. In this fascinating, frightening book, Christopher Steiner tells the story of how algorithms took over—and shows why the “bot revolution” is about to spill into every aspect of our lives, often silently, without our knowledge. The May 2010 “Flash Crash” exposed Wall Street's reliance on trading bots to the tune of a 998-point market drop and \$1 trillion in vanished market value. But that was just the beginning. In Automate This, we meet bots that are driving cars, penning haiku, and writing music mistaken for Bach's. They listen in on

our customer service calls and figure out what Iran would do in the event of a nuclear standoff. There are algorithms that can pick out the most cohesive crew of astronauts for a space mission or identify the next Jeremy Lin. Some can even ingest statistics from baseball games and spit out pitch-perfect sports journalism indistinguishable from that produced by humans. The interaction of man and machine can make our lives easier. But what will the world look like when algorithms control our hospitals, our roads, our culture, and our national security? What happens to businesses when we automate judgment and eliminate human instinct? And what role will be left for doctors, lawyers, writers, truck drivers, and many others? Who knows—maybe there's a bot learning to

do your job this minute.

Python Algorithms Princeton University Press

Imagine an everyday world in which the price of gasoline (and oil) continues to go up, and up, and up. Think about the immediate impact that would have on our lives. Of course, everybody already knows how about gasoline has affected our driving habits. People can't wait to junk their gas-guzzling SUVs for a new Prius. But there are more, not-so-obvious changes on the horizon that Chris Steiner tracks brilliantly in this provocative work. Consider the following societal changes: people who own homes in far-off suburbs will soon realize that there's no longer any market for their houses (reason: nobody wants to live too far away because it's too

expensive to commute to work). Telecommuting will begin to expand rapidly. Trains will become the mode of national transportation (as it used to be) as the price of flying becomes prohibitive. Families will begin to migrate southward as the price of heating northern homes in the winter is too pricey. Cheap everyday items that are comprised of plastic will go away because of the rising price to produce them (plastic is derived from oil). And this is just the beginning of a huge and overwhelming domino effect that our way of life will undergo in the years to come. Steiner, an engineer by training before turning to journalism, sees how this simple but constant rise in oil and gas prices will totally re-structure our lifestyle. But what may be surprising to

readers is that all of these changes may not be negative - but actually will usher in some new and very promising aspects of our society. Steiner will probe how the liberation of technology and innovation, triggered by climbing gas prices, will change our lives. The book may start as an alarmist's exercise.... but don't be misled. The future will be exhilarating. Automating the News Catapult Over the course of a generation, algorithms have gone from mathematical abstractions to powerful mediators of daily life. Algorithms have made our lives more efficient, more entertaining, and, sometimes, better informed. At the same time, complex algorithms are increasingly violating the basic rights of individual citizens. Allegedly anonymized datasets routinely

leak our most sensitive personal information; statistical models for everything from mortgages to college admissions reflect racial and gender bias. Meanwhile, users manipulate algorithms to "game" search engines, spam filters, online reviewing services, and navigation apps. Understanding and improving the science behind the algorithms that run our lives is rapidly becoming one of the most pressing issues of this century. Traditional fixes, such as laws, regulations and watchdog groups, have proven woefully inadequate. Reporting from the cutting edge of scientific research, *The Ethical Algorithm* offers a new approach: a set

of principled solutions based on the emerging and exciting science of socially aware algorithm design. Michael Kearns and Aaron Roth explain how we can better embed human principles into machine code - without halting the advance of data-driven scientific exploration. Weaving together innovative research with stories of citizens, scientists, and activists on the front lines, *The Ethical Algorithm* offers a compelling vision for a future, one in which we can better protect humans from the unintended impacts of algorithms while continuing to inspire wondrous advances in technology.

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