

# Algorithms Of Oppression How Search Engines Reinforce Racism

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**Algorithms of Oppression** - Safiya Umoja Noble 2018-01-08

As seen in Wired and Time A revealing look at how negative biases against women of color are embedded in search engine results and

algorithms Run a Google search for “black girls”—what will you find? “Big Booty” and other sexually explicit terms are likely to come up as top search terms. But, if you type in “white girls,” the results are radically different. The

suggested porn sites and un-moderated discussions about “why black women are so sassy” or “why black women are so angry” presents a disturbing portrait of black womanhood in modern society. In *Algorithms of Oppression*, Safiya Umoja Noble challenges the idea that search engines like Google offer an equal playing field for all forms of ideas, identities, and activities. Data discrimination is a real social problem; Noble argues that the combination of private interests in promoting certain sites, along with the monopoly status of a relatively small number of Internet search engines, leads to a biased set of search algorithms that privilege whiteness and discriminate against people of color, specifically women of color. Through an analysis of textual and media searches as well as extensive research on paid online advertising, Noble exposes a culture of racism and sexism in the way discoverability is created online. As search engines and their related companies grow in

importance—operating as a source for email, a major vehicle for primary and secondary school learning, and beyond—understanding and reversing these disquieting trends and discriminatory practices is of utmost importance. An original, surprising and, at times, disturbing account of bias on the internet, *Algorithms of Oppression* contributes to our understanding of how racism is created, maintained, and disseminated in the 21st century. Safiya Noble discusses search engine bias in an interview with USC Annenberg School for Communication and Journalism

**White Bound** - Matthew Hughey 2012-08-22  
Discussions of race are inevitably fraught with tension, both in opinion and positioning. Too frequently, debates are framed as clear points of opposition—us versus them. And when considering white racial identity, a split between progressive movements and a neoconservative backlash is all too frequently assumed. Taken at face value, it would seem that whites are

splintering into antagonistic groups, with differing worldviews, values, and ideological stances. *White Bound* investigates these dividing lines, questioning the very notion of a fracturing whiteness, and in so doing offers a unique view of white racial identity. Matthew Hughey spent over a year attending the meetings, reading the literature, and interviewing members of two white organizations—a white nationalist group and a white antiracist group. Though he found immediate political differences, he observed surprising similarities. Both groups make meaning of whiteness through a reliance on similar racist and reactionary stories and worldviews. On the whole, this book puts abstract beliefs and theoretical projection about the supposed fracturing of whiteness into relief against the realities of two groups never before directly compared with this much breadth and depth. By examining the similarities and differences between seemingly antithetical white groups, we see not just the many ways of being

white, but how these actors make meaning of whiteness in ways that collectively reproduce both white identity and, ultimately, white supremacy.

*What Algorithms Want* - Ed Finn 2017-03-10  
The gap between theoretical ideas and messy reality, as seen in Neal Stephenson, Adam Smith, and Star Trek. We depend on—we believe in—algorithms to help us get a ride, choose which book to buy, execute a mathematical proof. It's as if we think of code as a magic spell, an incantation to reveal what we need to know and even what we want. Humans have always believed that certain invocations—the marriage vow, the shaman's curse—do not merely describe the world but make it. Computation casts a cultural shadow that is shaped by this long tradition of magical thinking. In this book, Ed Finn considers how the algorithm—in practical terms, “a method for solving a problem”—has its roots not only in mathematical logic but also in cybernetics, philosophy, and

magical thinking. Finn argues that the algorithm deploys concepts from the idealized space of computation in a messy reality, with unpredictable and sometimes fascinating results. Drawing on sources that range from Neal Stephenson's *Snow Crash* to Diderot's *Encyclopédie*, from Adam Smith to the *Star Trek* computer, Finn explores the gap between theoretical ideas and pragmatic instructions. He examines the development of intelligent assistants like Siri, the rise of algorithmic aesthetics at Netflix, Ian Bogost's satiric Facebook game *Cow Clicker*, and the revolutionary economics of Bitcoin. He describes Google's goal of anticipating our questions, Uber's cartoon maps and black box accounting, and what Facebook tells us about programmable value, among other things. If we want to understand the gap between abstraction and messy reality, Finn argues, we need to build a model of "algorithmic reading" and scholarship that attends to process, spearheading a new

experimental humanities.

**Stress and Resilience** - Leith Mullings

2012-12-06

Documenting the daily efforts of African Americans to protect their community against highly oppressive conditions, this groundbreaking volume chronicles the unique experiences of black women that place them at higher risk for morbidity and mortality - especially during pregnancy. *Stress and Resilience: The Social Context of Reproduction in Central Harlem* examines the processes through which economic circumstances, environmental issues, and social conditions create situations that expose African American women to stress and chronic strain. Detailing the individual and community assets and strategies used to address these conditions, this volume provides a model methodology for translating research into public health and social action. Based on interactive community partnered research, *Stress and Resilience: The*

Social Context of Reproduction in Central Harlem Facilitates more exact hypotheses about the relationship between risk factors, protective factors and reproductive health; Furnishes a better understanding of chronic disease patterns and suggests more effective interventions to reduce rates of infant mortality; Incorporates the voices of the community and of women themselves through their own words and actions; Sheds light on epidemiologic research and intervention protocols; Examines the social context in which reproductive behaviors are practiced; Provides a holistic framework in which to understand infant mortality; And more. Filling a large gap in the literature on the social context of reproduction this important monograph offers indispensable information for public health researchers, program planners, anthropologists, sociologists, urban planners, medical providers, policy makers, and private funders.

**Behind the Screen** - Sarah T. Roberts

2019-06-25

An eye-opening look at the invisible workers who protect us from seeing humanity's worst on today's commercial internet Social media on the internet can be a nightmarish place. A primary shield against hateful language, violent videos, and online cruelty uploaded by users is not an algorithm. It is people. Mostly invisible by design, more than 100,000 commercial content moderators evaluate posts on mainstream social media platforms: enforcing internal policies, training artificial intelligence systems, and actively screening and removing offensive material—sometimes thousands of items per day. Sarah T. Roberts, an award-winning social media scholar, offers the first extensive ethnographic study of the commercial content moderation industry. Based on interviews with workers from Silicon Valley to the Philippines, at boutique firms and at major social media companies, she contextualizes this hidden industry and examines the emotional toll it takes on its

workers. This revealing investigation of the people “behind the screen” offers insights into not only the reality of our commercial internet but the future of globalized labor in the digital age.

*#HashtagActivism* - Sarah J. Jackson 2020-03-10  
How marginalized groups use Twitter to advance counter-narratives, preempt political spin, and build diverse networks of dissent. The power of hashtag activism became clear in 2011, when *#IranElection* served as an organizing tool for Iranians protesting a disputed election and offered a global audience a front-row seat to a nascent revolution. Since then, activists have used a variety of hashtags, including *#JusticeForTrayvon*, *#BlackLivesMatter*, *#YesAllWomen*, and *#MeToo* to advocate, mobilize, and communicate. In this book, Sarah Jackson, Moya Bailey, and Brooke Foucault Welles explore how and why Twitter has become an important platform for historically disenfranchised populations, including Black

Americans, women, and transgender people. They show how marginalized groups, long excluded from elite media spaces, have used Twitter hashtags to advance counternarratives, preempt political spin, and build diverse networks of dissent. The authors describe how such hashtags as *#MeToo*, *#SurvivorPrivilege*, and *#WhyIStayed* have challenged the conventional understanding of gendered violence; examine the voices and narratives of Black feminism enabled by *#FastTailedGirls*, *#YouOKSis*, and *#SayHerName*; and explore the creation and use of *#GirlsLikeUs*, a network of transgender women. They investigate the digital signatures of the “new civil rights movement”—the online activism, storytelling, and strategy-building that set the stage for *#BlackLivesMatter*—and recount the spread of racial justice hashtags after the killing of Michael Brown in Ferguson, Missouri, and other high-profile incidents of killings by police. Finally, they consider hashtag created by allies,

including #AllMenCan and #CrimingWhileWhite.

Artificial Unintelligence - Meredith Broussard  
2019-01-29

A guide to understanding the inner workings and outer limits of technology and why we should never assume that computers always get it right. In Artificial Unintelligence, Meredith Broussard argues that our collective enthusiasm for applying computer technology to every aspect of life has resulted in a tremendous amount of poorly designed systems. We are so eager to do everything digitally—hiring, driving, paying bills, even choosing romantic partners—that we have stopped demanding that our technology actually work. Broussard, a software developer and journalist, reminds us that there are fundamental limits to what we can (and should) do with technology. With this book, she offers a guide to understanding the inner workings and outer limits of technology—and issues a warning that we should never assume that computers

always get things right. Making a case against technochauvinism—the belief that technology is always the solution—Broussard argues that it's just not true that social problems would inevitably retreat before a digitally enabled Utopia. To prove her point, she undertakes a series of adventures in computer programming. She goes for an alarming ride in a driverless car, concluding “the cyborg future is not coming any time soon”; uses artificial intelligence to investigate why students can't pass standardized tests; deploys machine learning to predict which passengers survived the Titanic disaster; and attempts to repair the U.S. campaign finance system by building AI software. If we understand the limits of what we can do with technology, Broussard tells us, we can make better choices about what we should do with it to make the world better for everyone.

Once Upon an Algorithm - Martin Erwig  
2022-08-09

How Hansel and Gretel, Sherlock Holmes, the

movie Groundhog Day, Harry Potter, and other familiar stories illustrate the concepts of computing. Picture a computer scientist, staring at a screen and clicking away frantically on a keyboard, hacking into a system, or perhaps developing an app. Now delete that picture. In *Once Upon an Algorithm*, Martin Erwig explains computation as something that takes place beyond electronic computers, and computer science as the study of systematic problem solving. Erwig points out that many daily activities involve problem solving. Getting up in the morning, for example: You get up, take a shower, get dressed, eat breakfast. This simple daily routine solves a recurring problem through a series of well-defined steps. In computer science, such a routine is called an algorithm. Erwig illustrates a series of concepts in computing with examples from daily life and familiar stories. Hansel and Gretel, for example, execute an algorithm to get home from the forest. The movie Groundhog Day illustrates the

problem of unsolvability; Sherlock Holmes manipulates data structures when solving a crime; the magic in Harry Potter's world is understood through types and abstraction; and Indiana Jones demonstrates the complexity of searching. Along the way, Erwig also discusses representations and different ways to organize data; "intractable" problems; language, syntax, and ambiguity; control structures, loops, and the halting problem; different forms of recursion; and rules for finding errors in algorithms. This engaging book explains computation accessibly and shows its relevance to daily life. Something to think about next time we execute the algorithm of getting up in the morning.

[A Citizen's Guide to Artificial Intelligence](#) - John Zerilli 2021-02-23

A concise but informative overview of AI ethics and policy. Artificial intelligence, or AI for short, has generated a staggering amount of hype in the past several years. Is it the game-changer it's been cracked up to be? If so, how is it

changing the game? How is it likely to affect us as customers, tenants, aspiring home-owners, students, educators, patients, clients, prison inmates, members of ethnic and sexual minorities, voters in liberal democracies? This book offers a concise overview of moral, political, legal and economic implications of AI. It covers the basics of AI's latest permutation, machine learning, and considers issues including transparency, bias, liability, privacy, and regulation.

**Cloud Ethics** - Louise Amoore 2020

Louise Amoore examines how machine learning algorithms are transforming the ethics and politics of contemporary society, proposing what she calls cloud ethics as a way to hold algorithms accountable by engaging with the social and technical conditions under which they emerge and operate.

Data Feminism - Catherine D'Ignazio 2020-03-31

A new way of thinking about data science and data ethics that is informed by the ideas of

intersectional feminism. Today, data science is a form of power. It has been used to expose injustice, improve health outcomes, and topple governments. But it has also been used to discriminate, police, and surveil. This potential for good, on the one hand, and harm, on the other, makes it essential to ask: Data science by whom? Data science for whom? Data science with whose interests in mind? The narratives around big data and data science are overwhelmingly white, male, and techno-heroic. In *Data Feminism*, Catherine D'Ignazio and Lauren Klein present a new way of thinking about data science and data ethics—one that is informed by intersectional feminist thought. Illustrating data feminism in action, D'Ignazio and Klein show how challenges to the male/female binary can help challenge other hierarchical (and empirically wrong) classification systems. They explain how, for example, an understanding of emotion can expand our ideas about effective data

visualization, and how the concept of invisible labor can expose the significant human efforts required by our automated systems. And they show why the data never, ever “speak for themselves.” Data Feminism offers strategies for data scientists seeking to learn how feminism can help them work toward justice, and for feminists who want to focus their efforts on the growing field of data science. But Data Feminism is about much more than gender. It is about power, about who has it and who doesn't, and about how those differentials of power can be challenged and changed.

**Algorithms and the End of Politics** - Timcke, Scott 2021-02-15

As the US contends with issues of populism and de-democratization, this timely study considers the impacts of digital technologies on the country's politics and society. Timcke provides a Marxist analysis of the rise of digital media, social networks and technology giants like Amazon, Apple, Facebook and Microsoft. He

looks at the impact of these new platforms and technologies on their users who have made them among the most valuable firms in the world. Offering bold new thinking across data politics and digital and economic sociology, this is a powerful demonstration of how algorithms have come to shape everyday life and political legitimacy in the US and beyond.

**Social Media Entertainment** - David Craig 2019-02-26

How the transformation of social media platforms and user-experience have redefined the entertainment industry In a little over a decade, competing social media platforms, including YouTube, Facebook, Twitter, Instagram, and Snapchat, have given rise to a new creative industry: social media entertainment. Operating at the intersection of the entertainment and interactivity, communication and content industries, social media entertainment creators have harnessed these platforms to generate new kinds of content

separate from the century-long model of intellectual property control in the traditional entertainment industry. Social media entertainment has expanded rapidly and the traditional entertainment industry has been forced to cede significant power and influence to content creators, their fans, and subscribers. Digital platforms have created a natural market for embedded advertising, changing the worlds of marketing and communication in their wake. Combined, these factors have produced new, radically shifting demands on the entertainment industry, posing new challenges for screen regimes, media scholars, industry professionals, content creators, and audiences alike. Stuart Cunningham and David Craig chronicle the rise of social media entertainment and its impact on media consumption and production. A massive, industry-defining study with insight from over 100 industry insiders, *Social Media Entertainment* explores the latest transformations in the entertainment industry in

this time of digital disruption.

**Algorithms of Oppression** - Safiya Umoja Noble 2018-02-20

Acknowledgments -- Introduction: the power of algorithms -- A society, searching -- Searching for Black girls -- Searching for people and communities -- Searching for protections from search engines -- The future of knowledge in the public -- The future of information culture -- Conclusion: algorithms of oppression -- Epilogue -- Notes -- Bibliography -- Index -- About the author

Conditional Citizens - Laila Lalami 2020-09-22  
A New York Times Editors' Choice • Best Book of the Year: Time, NPR, Bookpage, L.A. Times  
What does it mean to be American? In this starkly illuminating and impassioned book, Pulitzer Prize-finalist Laila Lalami recounts her unlikely journey from Moroccan immigrant to U.S. citizen, using it as a starting point for her exploration of American rights, liberties, and protections. "Sharp, bracingly clear

essays."—Entertainment Weekly Tapping into history, politics, and literature, she elucidates how accidents of birth—such as national origin, race, and gender—that once determined the boundaries of Americanness still cast their shadows today. Lalami poignantly illustrates how white supremacy survives through adaptation and legislation, with the result that a caste system is maintained that keeps the modern equivalent of white male landowners at the top of the social hierarchy. Conditional citizens, she argues, are all the people with whom America embraces with one arm and pushes away with the other. Brilliantly argued and deeply personal, *Conditional Citizens* weaves together Lalami's own experiences with explorations of the place of nonwhites in the broader American culture.

*Research ethics in the real world* - Kara, Helen  
2018-11-14

Research ethics and integrity are growing in importance as academics face increasing

pressure to win grants and publish, and universities promote themselves in the competitive HE market. *Research Ethics in the Real World* is the first book to highlight the links between research ethics and individual, social, professional, institutional, and political ethics. Drawing on Indigenous and Euro-Western research traditions, Helen Kara considers all stages of the research process, from the formulation of a research question to aftercare for participants, data and findings. She argues that knowledge of both ethical approaches is helpful for researchers working in either paradigm. Students, academics, and research ethics experts from around the world contribute real-world perspectives on navigating and managing ethics in practice. *Research Ethics in the Real World* provides guidance for quantitative, qualitative, and mixed-methods researchers from all disciplines about how to act ethically throughout your research work. This book is invaluable in supporting teachers of

research ethics to design and deliver effective courses.

**The Googlization of Everything** - Siva Vaidhyanathan 2012-03-13

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

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

*The Hollywood Jim Crow* - Maryann Erigha 2019-02-05

The story of racial hierarchy in the American film industry The #OscarsSoWhite campaign, and the content of the leaked Sony emails which revealed, among many other things, that a powerful Hollywood insider didn't believe that Denzel Washington could "open" a western genre film, provide glaring evidence that the opportunities for people of color in Hollywood are limited. In *The Hollywood Jim Crow*, Maryann Erigha tells the story of inequality, looking at the practices and biases that limit the production and circulation of movies directed by racial minorities. She examines over 1,300 contemporary films, specifically focusing on directors, to show the key elements at work in maintaining "the Hollywood Jim Crow." Unlike

the Jim Crow era where ideas about innate racial inferiority and superiority were the grounds for segregation, Hollywood's version tries to use economic and cultural explanations to justify the underrepresentation and stigmatization of Black filmmakers. Erigha exposes the key elements at work in maintaining Hollywood's racial hierarchy, namely the relationship between genre and race, the ghettoization of Black directors to black films, and how Blackness is perceived by the Hollywood producers and studios who decide what gets made and who gets to make it. Erigha questions the notion that increased representation of African Americans behind the camera is the sole answer to the racial inequality gap. Instead, she suggests focusing on the obstacles to integration for African American film directors. Hollywood movies have an expansive reach and exert tremendous power in the national and global production, distribution, and exhibition of popular culture. The Hollywood Jim Crow fully

dissects the racial inequality embedded in this industry, looking at alternative ways for African Americans to find success in Hollywood and suggesting how they can band together to forge their own career paths.

*Black Software* - Charlton D. McIlwain  
2019-10-01

Activists, pundits, politicians, and the press frequently proclaim today's digitally mediated racial justice activism the new civil rights movement. As Charlton D. McIlwain shows in this book, the story of racial justice movement organizing online is much longer and varied than most people know. In fact, it spans nearly five decades and involves a varied group of engineers, entrepreneurs, hobbyists, journalists, and activists. But this is a history that is virtually unknown even in our current age of Google, Facebook, Twitter, and Black Lives Matter. Beginning with the simultaneous rise of civil rights and computer revolutions in the 1960s, McIlwain, for the first time, chronicles the long

relationship between African Americans, computing technology, and the Internet. In turn, he argues that the forgotten figures who worked to make black politics central to the Internet's birth and evolution paved the way for today's explosion of racial justice activism. From the 1960s to present, the book examines how computing technology has been used to neutralize the threat that black people pose to the existing racial order, but also how black people seized these new computing tools to build community, wealth, and wage a war for racial justice. Through archival sources and the voices of many of those who lived and made this history, *Black Software* centralizes African Americans' role in the Internet's creation and evolution, illuminating both the limits and possibilities for using digital technology to push for racial justice in the United States and across the globe.

*How Algorithms Create and Prevent Fake News* -  
Noah Giansiracusa 2021-07-15

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.

*Invisible Search and Online Search Engines* - Jutta Haider 2019-03-04

*Invisible Search and Online Search Engines* considers the use of search engines in contemporary everyday life and the challenges this poses for media and information literacy. Looking for mediated information is mostly done online and arbitrated by the various tools and devices that people carry with them on a daily basis. Because of this, search engines have a significant impact on the structure of our lives,

and personal and public memories. Haider and Sundin consider what this means for society, whilst also uniting research on information retrieval with research on how people actually look for and encounter information. Search engines are now one of society's key infrastructures for knowing and becoming informed. While their use is dispersed across myriads of social practices, where they have acquired close to naturalised positions, they are commercially and technically centralised. Arguing that search, searching, and search engines have become so widely used that we have stopped noticing them, Haider and Sundin consider what it means to be so reliant on this all-encompassing and increasingly invisible information infrastructure. *Invisible Search and Online Search Engines* is the first book to approach search and search engines from a perspective that combines insights from the technical expertise of information science research with a social science and humanities

approach. As such, the book should be essential reading for academics, researchers, and students working on and studying information science, library and information science (LIS), media studies, journalism, digital cultures, and educational sciences.

**Clean and White** - Carl A. Zimring 2017-10-03  
From the age of Thomas Jefferson to the Memphis Public Workers strike of 1968 through the present day, ideas about race-- whites are "clean" and non-whites are "dirty"-- have shaped where people have lived, where people have worked, and how American society's wastes have been managed. Zimring draws on historical evidence from statesmen, scholars, sanitarians, novelists, activists, advertisements, and the United States Census of Population to reveal changing constructions of environmental racism, focusing on constructions of race and hygiene. The bigoted idea that non-whites are "dirty" remains deeply ingrained in the national psyche, continuing to shape social and environmental

inequalities.

**Race After Technology** - Ruha Benjamin

2019-07-09

From everyday apps to complex algorithms, Ruha Benjamin cuts through tech-industry hype to understand how emerging technologies can reinforce White supremacy and deepen social inequity. Benjamin argues that automation, far from being a sinister story of racist programmers scheming on the dark web, has the potential to hide, speed up, and deepen discrimination while appearing neutral and even benevolent when compared to the racism of a previous era. Presenting the concept of the “New Jim Code,” she shows how a range of discriminatory designs encode inequity by explicitly amplifying racial hierarchies; by ignoring but thereby replicating social divisions; or by aiming to fix racial bias but ultimately doing quite the opposite. Moreover, she makes a compelling case for race itself as a kind of technology, designed to stratify and sanctify

social injustice in the architecture of everyday life. This illuminating guide provides conceptual tools for decoding tech promises with sociologically informed skepticism. In doing so, it challenges us to question not only the technologies we are sold but also the ones we ourselves manufacture. Visit the book's free Discussion Guide here.

*Emotions, Technology, and Design* - Sharon

Tettegah 2015-12-28

Emotional design explicitly addresses the emotional relationship between the objects and the subjects of design—in this book, the objects are technologies, and the subjects are technology users. The first section delves into the philosophy and theory of emotional design to provide a foundation for the rest of the book, which goes on to discuss emotional design principles, the design and use of emoticons, and then intelligent agents in a variety of settings. A conclusion chapter covers future research and directions. *Emotions, Technology, and Design*

provides a thorough look at how technology design affects emotions and how to use that understanding to in practical applications. Discusses the role of culture, trust, and identity in empathetic technology Presents a framework for using sound to elicit positive emotional responses Details the emotional use of color in design Explores the use of emoticons, earcons, and tactons Addresses the emotional design specific to agent-based environments

What is Digital Sociology? - Neil Selwyn

2019-07-12

The rise of digital technology is transforming the world in which we live. Our digitalized societies demand new ways of thinking about the social, and this short book introduces readers to an approach that can deliver this: digital sociology. Neil Selwyn examines the concepts, tools and practices that sociologists are developing to analyze the intersections of the social and the digital. Blending theory and empirical examples, the five chapters highlight areas of inquiry

where digital approaches are taking hold and shaping the discipline of sociology today. The book explores key topics such as digital race and digital labor, as well as the fast-changing nature of digital research methods and diversifying forms of digital scholarship. Designed for use in advanced undergraduate and graduate courses, this timely introduction will be an invaluable resource for all sociologists seeking to focus their craft and thinking toward the social complexities of the digital age.

Real Black - John L. Jackson Jr. 2005-11-15

New York's urban neighborhoods are full of young would-be emcees who aspire to "keep it real" and restaurants like Sylvia's famous soul food eatery that offer a taste of "authentic" black culture. In these and other venues, authenticity is considered the best way to distinguish the real from the phony, the genuine from the fake. But in Real Black, John L. Jackson Jr. proposes a new model for thinking about these issues--racial sincerity. Jackson argues that authenticity

caricatures identity as something imposed on people, imprisoning them within stereotypes--turning them into racial objects and inanimate things, instead of living, breathing human beings. Contending that such assumptions deny people agency--not to mention humanity--in their search for identity, Jackson counterposes sincerity, an internal and more productive analytical model for thinking about race. Moving in and around Harlem and Brooklyn, Jackson offers a kaleidoscope of subjects and stories that directly and indirectly address how race is negotiated in today's world--including tales of name-changing hip-hop emcees, book-vending numerologists, urban conspiracy theorists, corrupt police officers, mixed-race neo-Nazis, and high-school gospel choirs forbidden to catch the Holy Ghost. Enlisting "Anthroman," his cape-crusading critical alter ego, Jackson records and retells these interconnected sagas in virtuosic detail and, in the process, shows us how race is defined and debated, imposed and confounded

every single day.

*Algorithms of Oppression* - Safiya Umoja Noble  
2018-02-20

Acknowledgments -- Introduction: the power of algorithms -- A society, searching -- Searching for Black girls -- Searching for people and communities -- Searching for protections from search engines -- The future of knowledge in the public -- The future of information culture -- Conclusion: algorithms of oppression -- Epilogue -- Notes -- Bibliography -- Index -- About the author

*The Intersectional Internet* - Safiya Umoja Noble  
2016-03-30

From race, sex, class, and culture, the multidisciplinary field of Internet studies needs theoretical and methodological approaches that allow us to question the organization of social relations that are embedded in digital technologies, and that foster a clearer understanding of how power relations are organized through technologies. Representing a

scholarly dialogue among established and emerging critical media and information studies scholars, this volume provides a means of foregrounding new questions, methods, and theories which can be applied to digital media, platforms, and infrastructures. These inquiries include, among others, how representation to hardware, software, computer code, and infrastructures might be implicated in global economic, political, and social systems of control. Contributors argue that more research needs to explicitly trace the types of uneven power relations that exist in technological spaces. By looking at both the broader political and economic context and the many digital technology acculturation processes as they are differentiated intersectionally, a clearer picture emerges of how under-acknowledging culturally situated and gendered information technologies are impacting the possibility of participation with (or purposeful abstinence from) the Internet. This book is ideal for undergraduate

and graduate courses in Internet studies, library and information studies, communication, sociology, and psychology. It is also ideal for researchers with varying expertise and will help to advance theoretical and methodological approaches to Internet research.

**The Xenofeminist Manifesto** - Laboria Cuboniks 2018-10-02

A pocket color manifesto for a new futuristic feminism Injustice should not simply be accepted as “the way things are.” This is the starting point for The Xenofeminist Manifesto, a radical attempt to articulate a feminism fit for the twenty-first century. Unafraid of exploring the potentials of technology, both its tyrannical and emancipatory possibilities, the manifesto seeks to uproot forces of repression that have come to seem inevitable—from the family, to the body, to the idea of gender itself. If nature is unjust, change nature!

*On Race* - George Yancy 2017-09-01

With the recent barrage of racially motivated

killings, violent encounters between blacks and whites, and hate crimes in the wake of the 2016 election that foreground historic problems posed by systemic racism, including disenfranchisement and mass incarceration, it would be easy to despair that Dr. Martin Luther King Jr.'s dream has turned into a nightmare. Many Americans struggle for equal treatment, facing hate speech, brutality, and a national spirit of hopelessness; their reality is hardly "post-racial". The need for clarity surrounding the significance of race and racism in the United States is more pressing than ever. This collection of interviews on race, some originally conducted for The New York Times philosophy blog, The Stone, provides rich context and insight into the nature, challenges, and deepest questions surrounding this fraught and thorny topic. In interviews with such major thinkers as bell hooks, Judith Butler, Cornel West, Kwame Anthony Appiah, Peter Singer, and Noam Chomsky, Yancy probes the historical origins,

social constructions, and lived reality of race along political and economic lines. He interrogates fully race's insidious expressions, its transcendence of Black/white binaries, and its link to neo-liberalism, its epistemological and ethical implications, and, ultimately, its future.

Pattern Discrimination - Clemens Apprich  
2018-11-13

How do "human" prejudices reemerge in algorithmic cultures allegedly devised to be blind to them? How do "human" prejudices reemerge in algorithmic cultures allegedly devised to be blind to them? To answer this question, this book investigates a fundamental axiom in computer science: pattern discrimination. By imposing identity on input data, in order to filter--that is, to discriminate--signals from noise, patterns become a highly political issue. Algorithmic identity politics reinstate old forms of social segregation, such as class, race, and gender, through defaults and paradigmatic assumptions about the homophilic

nature of connection. Instead of providing a more "objective" basis of decision making, machine-learning algorithms deepen bias and further inscribe inequality into media. Yet pattern discrimination is an essential part of human--and nonhuman--cognition. Bringing together media thinkers and artists from the United States and Germany, this volume asks the urgent questions: How can we discriminate without being discriminatory? How can we filter information out of data without reinserting racist, sexist, and classist beliefs? How can we queer homophobic tendencies within digital cultures?

**Design Justice** - Sasha Costanza-Chock

2020-03-03

An exploration of how design might be led by marginalized communities, dismantle structural inequality, and advance collective liberation and ecological survival. What is the relationship between design, power, and social justice?

"Design justice" is an approach to design that is

led by marginalized communities and that aims explicitly to challenge, rather than reproduce, structural inequalities. It has emerged from a growing community of designers in various fields who work closely with social movements and community-based organizations around the world. This book explores the theory and practice of design justice, demonstrates how universalist design principles and practices erase certain groups of people—specifically, those who are intersectionally disadvantaged or multiply burdened under the matrix of domination (white supremacist heteropatriarchy, ableism, capitalism, and settler colonialism)—and invites readers to “build a better world, a world where many worlds fit; linked worlds of collective liberation and ecological sustainability.” Along the way, the book documents a multitude of real-world community-led design practices, each grounded in a particular social movement. Design Justice goes beyond recent calls for design for good,

user-centered design, and employment diversity in the technology and design professions; it connects design to larger struggles for collective liberation and ecological survival.

**Weapons of Math Destruction** - Cathy O'Neil  
2017-09-05

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.

The New American Servitude - Cati Coe  
2019-04-02

Examines why African care workers feel politically excluded from the United States Care for America's growing elderly population is increasingly provided by migrants, and the demand for health care labor is only expected to grow. Because of this health care crunch and the low barriers to entry, new African immigrants have adopted elder care as a niche employment sector, funneling their friends and relatives into this occupation. However, elder care puts care

workers into racialized, gendered, and age hierarchies, making it difficult for them to achieve social and economic mobility. In *The New American Servitude*, Coe demonstrates how these workers often struggle to find a sense of political and social belonging. They are regularly subjected to racial insults and demonstrations of power—and effectively turned into servants—at the hands of other members of the care worker network, including clients and their relatives, agency staff, and even other care workers. Low pay, a lack of benefits, and a lack of stable employment, combined with a lack of appreciation for their efforts, often alienate them, so that many come to believe that they cannot lead valuable lives in the United States. While jobs are a means of acculturating new immigrants, African care workers don't tend to become involved or politically active. Many plan to leave rather than putting down roots in the US. Offering revealing insights into the dark side of a burgeoning economy, *The New American*

*Servitude* carries serious implications for the future of labor and justice in the care work industry.

**Automating Inequality** - Virginia Eubanks  
2018-01-23

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.

**Engineering Justice** - Jon A. Leydens  
2017-11-17

Shows how the engineering curriculum can be a site for rendering social justice visible in engineering, for exploring complex socio-technical interplays inherent in engineering practice, and for enhancing teaching and learning Using social justice as a catalyst for curricular transformation, Engineering Justice presents an examination of how politics, culture, and other social issues are inherent in the practice of engineering. It aims to align engineering curricula with socially just outcomes, increase enrollment among underrepresented groups, and lessen lingering gender, class, and ethnicity gaps by showing how the power of engineering knowledge can be explicitly harnessed to serve the underserved and address social inequalities. This book is meant to transform the way educators think about engineering curricula through creating or transforming existing courses to attract, retain, and motivate engineering students to become professionals who enact engineering for social

justice. Engineering Justice offers thought-provoking chapters on: why social justice is inherent yet often invisible in engineering education and practice; engineering design for social justice; social justice in the engineering sciences; social justice in humanities and social science courses for engineers; and transforming engineering education and practice. In addition, this book: Provides a transformative framework for engineering educators in service learning, professional communication, humanitarian engineering, community service, social entrepreneurship, and social responsibility Includes strategies that engineers on the job can use to advocate for social justice issues and explain their importance to employers, clients, and supervisors Discusses diversity in engineering educational contexts and how it affects the way students learn and develop Engineering Justice is an important book for today's professors, administrators, and curriculum specialists who seek to produce the

best engineers of today and tomorrow.  
*Masked by Trust* - Matthew Reidsma 2019  
"Examines library discovery systems to show how the algorithms that power them are not the neutral and unbiased systems that they are claimed to be, but are affected by the human biases of programmers and the commercial influences of their production"--

**The Alignment Problem: Machine Learning and Human Values** - Brian Christian  
2020-10-06

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 cull 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. *Search Engine Society* - Alexander Halavais 2017-11-27

Search engines have become a key part of our everyday lives. Yet there is growing concern with how algorithms, which run just beneath the surface of our interactions online, are affecting society. This timely new edition of *Search Engine Society* enlightens readers on the forms

of bias that algorithms introduce into our knowledge and social spaces, drawing on recent changes to technology, industries, policies, and research. It provides an introduction to the social place of the search engine and addresses crucial questions such as: How have search engines changed the way we organize our thoughts about the world, and how we work? To what extent do politics shape search, and does search shape politics? This book is a must-read for those who wish to understand the future of the social internet and how search shapes it.

**Seeing Like a Feminist** - Nivedita Menon  
2012-12-01

THE WORLD THROUGH A FEMINIST LENS For Nivedita Menon, feminism is not about a moment of final triumph over patriarchy but about the gradual transformation of the social field so decisively that old markers shift forever. From sexual harassment charges against international figures to the challenge that caste politics poses to feminism, from the ban on the

veil in France to the attempt to impose skirts on international women badminton players, from queer politics to domestic servants' unions to the Pink Chaddi campaign, Menon deftly illustrates

how feminism complicates the field irrevocably. Incisive, eclectic and politically engaged, *Seeing like a Feminist* is a bold and wide-ranging book that reorders contemporary society.