

Algorithmic Life

Calculative devices in
the age of big data

Edited by
Louise Amoore
and Volha Piotukh

Algorithmic Life Calculative Devices Data

Louise Amore,Volha Piotukh



Algorithmic Life Calculative Devices Data:

Algorithmic Life Louise Amoore, Volha Piotukh, 2015-12-22 This book critically explores forms and techniques of calculation that emerge with digital computation and their implications The contributors demonstrate that digital calculative devices matter beyond their specific functions as they progressively shape transform and govern all areas of our life In particular it addresses such questions as How does the drive to make sense of and productively use large amounts of diverse data inform the development of new calculative devices logics and techniques How do these devices logics and techniques affect our capacity to decide and to act How do mundane elements of our physical and virtual existence become data to be analysed and rearranged in complex ensembles of people and things In what ways are conventional notions of public and private individual and population certainty and probability rule and exception transformed and what are the consequences How does the search for hidden connections and patterns change our understanding of social relations and associative life Do contemporary modes of calculation produce new thresholds of calculability and computability allowing for the improbable or the merely possible to be embraced and acted upon As contemporary approaches to governing uncertain futures seek to anticipate future events how are calculation and decision engaged anew Drawing together different strands of cutting edge research that is both theoretically sophisticated and empirically rich this book makes an important contribution to several areas of scholarship including the emerging social science field of software studies and will be a vital resource for students and scholars alike

Algorithms of Education Kalervo N. Gulson, Sam Sellar, P. Taylor Webb, 2022-05-17 A critique of what lies behind the use of data in contemporary education policy While the science fiction tales of artificial intelligence eclipsing humanity are still very much fantasies in *Algorithms of Education* the authors tell real stories of how algorithms and machines are transforming education governance providing a fascinating discussion and critique of data and its role in education policy *Algorithms of Education* explores how for policy makers today's ever growing amount of data creates the illusion of greater control over the educational futures of students and the work of school leaders and teachers In fact the increased datafication of education the authors argue offers less and less control as algorithms and artificial intelligence further abstract the educational experience and distance policy makers from teaching and learning Focusing on the changing conditions for education policy and governance *Algorithms of Education* proposes that schools and governments are increasingly turning to synthetic governance a governance where what is human and machine becomes less clear as a strategy for optimizing education Exploring case studies of data infrastructures facial recognition and the growing use of data science in education *Algorithms of Education* draws on a wide variety of fields from critical theory and media studies to science and technology studies and education policy studies mapping the political and methodological directions for engaging with datafication and artificial intelligence in education governance According to the authors we must go beyond the debates that separate humans and machines in order to develop new strategies for and a new politics of education

Algorithmic Cultures Robert Seyfert, Jonathan Roberge, 2016-10-04 This book provides in depth and wide ranging analyses of the emergence and subsequent ubiquity of algorithms in diverse realms of social life The plurality of Algorithmic Cultures emphasizes 1 algorithms increasing importance in the formation of new epistemic and organizational paradigms and 2 the multifaceted analyses of algorithms across an increasing number of research fields The authors in this volume address the complex interrelations between social groups and algorithms in the construction of meaning and social interaction The contributors highlight the performative dimensions of algorithms by exposing the dynamic processes through which algorithms themselves the product of a specific approach to the world frame reality while at the same time organizing how people think about society With contributions from leading experts from Media Studies Social Studies of Science and Technology Cultural and Media Sociology from Canada France Germany UK and the USA this volume presents cutting edge empirical and conceptual research that includes case studies on social media platforms gaming financial trading and mobile security infrastructures

Algorithmic Intimacy Anthony Elliott, 2022-10-11 Artificial intelligence not only powers our cars hospitals and courtrooms predictive algorithms are becoming deeply lodged inside us too Machine intelligence is learning our private preferences and discreetly shaping our personal behaviour telling us how to live who to befriend and who to date In *Algorithmic Intimacy* Anthony Elliott examines the power of predictive algorithms in reshaping personal relationships today From Facebook friends and therapy chatbots to dating apps and quantified sex lives Elliott explores how machine intelligence is working within us amplifying our desires and steering our personal preferences He argues that intimate relationships today are threatened not by the digital revolution as such but by the orientation of various life strategies unthinkingly aligned with automated machine intelligence Our reliance on algorithmic recommendations he suggests reflects a growing emergency in personal agency and human bonds We need alternatives innovation and experimentation for the interpersonal intimate effort of ongoing translation back and forth between the discourses of human and machine intelligence Accessible and compelling this book sheds fresh light on the impact of artificial intelligence on the most intimate aspects of our lives It will appeal to students in the social sciences and humanities and to a wide range of general readers

The Social Power of Algorithms David Beer, 2019-10-23 The vast circulations of mobile devices sensors and data mean that the social world is now defined by a complex interweaving of human and machine agency Key to this is the growing power of algorithms the decision making parts of code in our software dense and data rich environments Algorithms can shape how we are retreated what we know who we connect with and what we encounter and they present us with some important questions about how society operates and how we understand it This book offers a series of concepts approaches and ideas for understanding the relations between algorithms and power Each chapter provides a unique perspective on the integration of algorithms into the social world As such this book directly tackles some of the most important questions facing the social sciences today This book was originally published as a special issue of Information Communication Society

Digital Platforms and Algorithmic Subjectivities Emiliana Armano, Marco Briziarelli, Elisabetta Risi, 2022-11-01 Algorithms are a form of productive power so how may we conceptualise the newly merged terrains of social life economy and self in a world of digital platforms How do multiple self quantifying practices interact with questions of class race and gender This edited collection considers algorithms at work for what purposes encoded data about behaviour attitudes dispositions relationships and preferences are deployed and black box control platform society theory and the formation of subjectivities It details technological structures and lived experience of algorithms and the operation of platforms in areas such as crypto finance production surveillance welfare activism in pandemic times Finally it asks if platform cooperativism collaborative design and neomutualism offer new visions Even as problems with labour and in society mount subjectivities and counter subjectivities here produced appear as conscious participants of change and not so much the servants of algorithmic control and dominant platforms

DataPublics Jannie Møller Hartley, Jannick Kirk Sørensen, David Mathieu, 2023-07-31 EPDF and EPUB available Open Access under CC BY NC ND licence This book addresses new challenges to the formation of publics in datafied democracies It proposes a fresh complex and nuanced approach to understand datapublics by considering datafication and public formation in the context of audience journalism and infrastructure studies The tightly woven chapters shed new light on how platforms algorithms and their data infrastructure are embedded in journalistic values discourses and practices opening up new conditions for publics to display agency mobilize and achieve legitimacy This is a seminal contribution to debates about the future of media journalism and civic practices

The Oxford Handbook of the Sociology of Machine Learning Juan Pablo Pardo-Guerra, 2025-04 Machine learning renowned for its ability to detect patterns in large datasets has seen a significant increase in applications and complexity since the early 2000s The Oxford Handbook of the Sociology of Machine Learning offers a state of the art and forward looking overview of the intersection between machine learning and sociology exploring what sociology can gain from machine learning and how it can shed new light on the societal implications of this technology Through its 39 chapters an international group of sociologists address three key questions First what can sociologists yield from using machine learning as a methodological tool This question is examined across various data types including text images and sound with insights into how machine learning and ethnography can be combined Second how is machine learning being used throughout society and what are its consequences The Handbook explores this question by examining the assumptions and infrastructures behind machine learning applications as well as the biases they might perpetuate Themes include art cities expertise financial markets gender race intersectionality law enforcement medicine and the environment covering contexts across the Global South and Global North Third what does machine learning mean for sociological theory and theorizing Chapters examine this question through discussions on agency culture human machine interaction influence meaning power dynamics prediction and postcolonial perspectives The Oxford Handbook of the Sociology of Machine Learning is an essential resource for academics and students

interested in artificial intelligence computational social science and the role and implications of machine learning in society

The Sociology of Debt Mark Featherstone, 2020-12-16 Over the course of the last ten years the issue of debt has become a serious problem that threatens to destroy the global socio economic system and ruin the everyday lives of millions of people This collection brings together a range of perspectives of key thinkers on debt to provide a sociological analysis focused upon the social political economic and cultural meanings of indebtedness The contributors to the book consider both the lived experience of debt and the more abstract processes of financialisation taking place globally Showing how debt functions on the level of both macro and microeconomics the book also provides a more holistic perspective with accounts that span sociological cultural and economic forms of analysis

Tokens Rachel O'Dwyer, 2023-10-03 Longlisted for the FT Schrodgers Business Book of the Year Award 2023 A BEST BOOK OF THE YEAR GQ Los Angeles Times Wired Wherever you look money is being replaced by tokens Digital platforms are issuing new kinds of money like things phone credit shares gift vouchers game tokens customer data the list goes on But what does it mean when online platforms become the new banks What new types of control and discrimination emerge when money is tied to specific apps or actions politics or identities Tokens opens up this new and expanding world Exploring the history of extra monetary economies Rachel O Dwyer shows that private and grassroots tokens have always haunted the real economy But as the large tech platforms issue new money like instruments tokens are suddenly everywhere Amazon's Turk workers are getting paid in gift cards Online streamers trade in wishlists Foreign remittances are sent via phone credit Bitcoin gift cards NFTs customer data and game tokens are the new money in an evolving economy It is a development challenging the balance of power between online empires and the state Tokens may offer a flexible even subversive route to compensation But for the platforms themselves they can be a means of amassing frightening new powers An essential read for anyone concerned with digital money inequality and the future of the economy

Reviewing **Algorithmic Life Calculative Devices Data**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Algorithmic Life Calculative Devices Data**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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