

Dirk Helbing

Thinking Ahead

Essays on Big Data, Digital
Revolution, and Participatory
Market Society



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Thinking Ahead Essays On Big Data Digital Revolution And Participatory Market Society

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Thinking Ahead - Essays on Big Data, Digital Revolution, and Participatory Market Society Dirk

Helbing, 2015-04-10 The rapidly progressing digital revolution is now touching the foundations of the governance of societal structures Humans are on the verge of evolving from consumers to prosumers and old entrenched theories in particular sociological and economic ones are falling prey to these rapid developments The original assumptions on which they are based are being questioned Each year we produce as much data as in the entire human history can we possibly create a global crystal ball to predict our future and to optimally govern our world Do we need wide scale surveillance to understand and manage the increasingly complex systems we are constructing or would bottom up approaches such as self regulating systems be a better solution to creating a more innovative more successful more resilient and ultimately happier society Working at the interface of complexity theory quantitative sociology and Big Data driven risk and knowledge management the author advocates the establishment of new participatory systems in our digital society to enhance coordination reduce conflict and above all reduce the tragedies of the commons resulting from the methods now used in political economic and management decision making The author Physicist Dirk Helbing is Professor of Computational Social Science at the Department of Humanities Social and Political Sciences and an affiliate of the Computer Science Department at ETH Zurich as well as co founder of ETH s Risk Center He is internationally known for the scientific coordination of the FuturICT Initiative which focuses on using smart data to understand techno socio economic systems Prof Helbing has produced an insightful and important set of essays on the ways in which big data and complexity science are changing our understanding of ourselves and our society and potentially allowing us to manage our societies much better than we are currently able to do Of special note are the essays that touch on the promises of big data along with the dangers this is material that we should all become familiar with Alex Pentland MIT author of Social Physics How Good Ideas Spread The Lessons From a New Science Dirk Helbing has established his reputation as one of the leading scientific thinkers on the dramatic impacts of the digital revolution on our society and economy Thinking Ahead is a most stimulating and provocative set of essays which deserves a wide audience Paul Ormerod economist and author of Butterfly Economics and Why Most Things Fail It is becoming increasingly clear that many of our institutions and social structures are in a bad way and urgently need fixing Financial crises international conflicts civil wars and terrorism inaction on climate change problems of poverty widening economic inequality health epidemics pollution and threats to digital privacy and identity are just some of the major challenges that we confront in the twenty first century These issues demand new and bold thinking and that is what Dirk Helbing offers in this collection of essays If even a fraction of these ideas pay off the consequences for global governance could be significant So this is a must read book for anyone concerned about the future Philip Ball science writer and author of Critical Mass This collection of papers brought together by Dirk Helbing is both timely and topical It raises concerns about

Big Data which are truly frightening and disconcerting that we do need to be aware of while at the same time offering some hope that the technology which has created the previously unthought of dangers to our privacy safety and democracy can be the means to address these dangers by enabling social economic and political participation and coordination not possible in the past It makes for compelling reading and I hope for timely action Eve Mitleton Kelly LSE author of Corporate Governance and Complexity Theory and editor of Co evolution of Intelligent Socio technical Systems Towards Digital Enlightenment Dirk Helbing,2018-08-27 This new collection of essays follows in the footsteps of the successful volume Thinking Ahead Essays on Big Data Digital Revolution and Participatory Market Society published at a time when our societies were on a path to technological totalitarianism as exemplified by mass surveillance reported by Edward Snowden and others Meanwhile the threats have diversified and tech companies have gathered enough data to create detailed profiles about almost everyone living in the modern world profiles that can predict our behavior better than our friends families or even partners This is not only used to manipulate peoples opinions and voting behaviors but more generally to influence consumer behavior at all levels It is becoming increasingly clear that we are rapidly heading towards a cybernetic society in which algorithms and social bots aim to control both the societal dynamics and individual behaviors span lang EN US style font family However there are also silver linings most of the threats that have accumulated over the past years have been identified and regulations are on the way to being introduced Furthermore entirely novel approaches based on blockchain technology and other developments derived from complexity science offer the possibility of entirely redefining collective trust and building platforms to support our core societal values span lang EN US style font family This book conveys an encouraging vision of the future and provides a sketch of how it may look The road to digital enlightenment is still open but it needs to be taken now pbrp *Next Civilization* Dirk Helbing,2021-02-08 Digital transformation sounds harmless given that the explosion in data volumes processing power and Artificial Intelligence has driven humanity and the entire world to a point of no return We will surely see a new civilization but we are at a crossroads The future needs to be re invented decisions must be taken After the automation of factories and the creation of self driving cars the automation of society is on its way But there are two kinds of automation a centralized top down control of the world and a distributed control approach supporting local self organization Using the power of today s information systems governments and big tech companies seem to engage in the first approach Might they even build a digital Crystal Ball that knows almost everything including your personality and a super intelligent digital God to control what we do We are much closer to such science fiction scenarios than you probably think In this much expanded second edition of The Automation of Society is Next How to Survive the Digital Revolution 2015 the author discusses lessons learned on digital democracy aspects of transhumanism and far reaching thoughts about life in the digital age and what it may mean to be human in the future **How and What Marketing Algorithms Think** Roberto Brognara,2022-10-27 This book argues that the apparent omnipotence of algorithms

today is not what it seems particularly in marketing where they actually offer less than they could. Considering the reasons behind this, it also notes that Big Data has relaunched a kind of data glorification and automated procedures that culturally marketing has already recognized and overcome at least once. This first generation of programmatic marketing, which the giants of the digital economy launched 15 years ago and consolidated worldwide, can be significantly improved with corresponding business results as well, but first, as this book shows, we need to know which strategic and cultural boundaries impact Big Data.

Routledge Handbook of Bounded Rationality Riccardo Viale, 2020-12-02 Herbert Simon's renowned theory of bounded rationality is principally interested in cognitive constraints and environmental factors and influences which prevent people from thinking or behaving according to formal rationality. Simon's theory has been expanded in numerous directions and taken up by various disciplines with an interest in how humans think and behave. This includes philosophy, psychology, neurocognitive sciences, economics, political science, sociology, management, and organization studies. The Routledge Handbook of Bounded Rationality draws together an international team of leading experts to survey the recent literature and the latest developments in these related fields. The chapters feature entries on key behavioural phenomena including reasoning, judgement, decision making, uncertainty, risk, heuristics, and biases, and fast and frugal heuristics. The text also examines current ideas such as fast and slow thinking, nudge, ecological rationality, evolutionary psychology, embodied cognition, and neurophilosophy. Overall, the volume serves to provide the most complete state of the art collection on bounded rationality available. This book is essential reading for students and scholars of economics, psychology, neurocognitive sciences, political sciences, and philosophy.

Seeing Like a Platform Petter Törnberg, Justus Uitermark, 2025-01-29 Power needs abstraction to make the unwieldy complexity of the social world legible and manageable. The proposition at the heart of *Seeing Like a Platform* is that digital technology brings new metaphors through which power operates. While industrial modernity saw society as a machinery to be designed according to detailed blueprints, digital modernity views society as organic and alive, to be herded and nudged through digital infrastructures, AI, and algorithms. *Seeing Like a Platform* explores the history, meaning, and far-reaching consequences of this epistemological shift. From social movements to Wikipedia, from digital platforms to city planning, from social science to media, society is being redefined by ideas from complexity science. While complexity offers a vision of a self-organized society freed from hierarchies and overbearing bureaucracies, it simultaneously enables new forms of domination and control. Through theoretical reflections and case studies, *Seeing Like a Platform* offers an inquiry into digital modernity. Accessibly written and broad-ranging, it is an essential reading for scholars, students, and practitioners in fields such as sociology, political science, urban studies, and technology studies. It will also interest anyone keen to understand the profound impact of digital technologies on governance, social organization, and everyday life. The Open Access version of this book is available at <http://www.taylorfrancis.com> and has been made available under a Creative Commons Attribution (CC BY 4.0) license.

New Urban Geographies of the Creative and

Knowledge Economies Simonetta Armondi, Stefano Di Vita, 2019-10-23 The temporal and spatial intersection of information and telecommunication technologies creative and knowledge economies and related new manufacturing systems has been leading to significant effects on urban socioeconomic and spatial configurations and public policies Specifically the post crisis emergence of innovative workplaces to accommodate these changes is creating socioeconomic and spatial features that are only recently beginning to be explored in the scholarly literature According to this scenario this edited book offers a variety of avenues for exploring the relationships between contemporary production activities and new workplaces in several urban contexts In particular it focuses on the consequences of these relationships in terms of regeneration of the urban fabric as well as on their implication in terms of urban policies This book represents early observation of the fast growing phenomenon of new productive activities and workplaces against the background of the gig economy and sharing economy paradigms Central to this discussion is the investigation of the connection between digital technologies new works and workplaces and urban change processes and projects by providing an additional contribution to new urban agendas for contemporary cities The chapters originally published as a special issue in the Journal of Urban Technology To the Man with a Hammer Bertelsmann Stiftung, 2016-02-16 In the face of rising complexity and systemic risks policy making appears at a breaking point If business and public leaders hope to create a sustainable and responsive economy they will need to break from traditional governance and embrace new innovative solutions Adopting new practices will be essential for our ability to detect and solve unprecedented challenges of the 21st century After all to the man who only has a hammer everything he encounters starts to look like a nail It is high time to augment the policymaker s toolbox This article collection helps point the way forward Gathering a distinguished panel of complexity experts and policy innovators it provides concrete examples of promising insights and tools drawing from complexity science the digital revolution and interdisciplinary approaches

Societal, Economic, Ethical and Legal Challenges of the Digital Revolution Dirk Helbing, 2015 In the wake of the on going digital revolution we will see a dramatic transformation of our economy and most of our societal institutions While the benefits of this transformation can be massive there are also tremendous risks to our society After the automation of many production processes and the creation of self driving vehicles the automation of society is next This is moving us to a tipping point and to a crossroads we must decide between a society in which the actions are determined in a top down way and then implemented by coercion or manipulative technologies such as personalized ads and nudging or a society in which decisions are taken in a free and participatory way and mutually coordinated Modern information and communication systems ICT enable both but the latter has economic and strategic benefits The fundamentals of human dignity autonomous decision making and democracies are shaking but I believe that they need to be vigorously defended as they are not only core principles of livable societies but also the basis of greater efficiency and success *Big Data* Viktor

Mayer-Schönberger, Kenneth Cukier, 2013 A exploration of the latest trend in technology and the impact it will have on the

economy science and society at large

The Digital Society - A Better Future Or Worse? (Introduction of Digital Society). Dirk Helbing, 2015 Smartphones tablets and app stores with almost unlimited possibilities have become symbols of the digital revolution. However, while all this makes our lives more comfortable and interesting, these innovations pave the way for much more fundamental transformations. They concern the way we learn, decide, act, and interact. Big Data, the Internet of Things, and Artificial Intelligence in the background will create smart homes, smart factories, and smart cities, but not only this: our entire economy and society are likely to change dramatically. What are the opportunities and risks related with this? Are we heading towards digital slavery or freedom? What forces are at work? And how can we use them to create a smarter society? This book is offering a guided tour to a new world, the digital society, ahead of us. We can already see the signs of change and entirely new trends. *Justice, the Digital Revolution, Society and the Individual* Bruno Zeller, Mirella Atherton, 2024-12-16 The effects that the digital revolution is having on the threads that make up the fabric of our society are significant. Methods of communication and the ways in which individuals interact are changing. This has led to changes to our institutions, our well-known structures, and our trusted hierarchies. In this book, the authors investigate the instruments of change in order to grasp how justice, the construct of society, and the individual can be understood. The innovations brought forward by the digital revolution are inevitable and are here to stay; indeed, at times they will cause conflict. This book recognises that changes to institutions such as the law must occur for us to adapt to a new and changing environment.

The Data Revolution Rob Kitchin, 2014-09-16 Carefully distinguishing between big data and open data and exploring various data infrastructures, Kitchin vividly illustrates how the data landscape is rapidly changing and calls for a revolution in how we think about data. Evelyn Ruppert, Goldsmiths University of London Deconstructs the hype around the data revolution to carefully guide us through the histories and the futures of big data. The book skilfully engages with debates from across the humanities, social sciences, and sciences in order to produce a critical account of how data are enmeshed into enormous social, economic, and political changes that are taking place. Mark Graham, University of Oxford Traditionally, data has been a scarce commodity which, given its value, has been either jealously guarded or expensively traded. In recent years, technological developments and political lobbying have turned this position on its head. Data now flow as a deep and wide torrent, are low in cost, and supported by robust infrastructures and are increasingly open and accessible. A data revolution is underway, one that is already reshaping how knowledge is produced, business conducted, and governance enacted, as well as raising many questions concerning surveillance, privacy, security, profiling, social sorting, and intellectual property rights. In contrast to the hype and hubris of much media and business coverage, *The Data Revolution* provides a synoptic and critical analysis of the emerging data landscape. Accessible in style, the book provides a synoptic overview of big data, open data, and data infrastructures. An introduction to thinking conceptually about data, data infrastructures, data analytics, and data markets. A critical discussion of the technical shortcomings and the social, political, and ethical consequences of the data revolution. An

analysis of the implications of the data revolution to academic business and government practices **Digitalis** Thierry Geerts, 2019-01-29 We invite you to visit Digitalis a country of over 4 billion inhabitants all interconnected via the internet A country where health education mobility economic and societal issues are addressed using options made available by digitalization This deliberately provocative book by Thierry Geerts is a strong call to put fear aside and embrace the progress of the current digital revolution Digitalization has huge social cultural and economic implications requiring us to completely reinvent the world in which we live But the author's message is positive technological progress offers us unique opportunities that allow us to reinvent our society And why couldn't Europe which has been at the forefront of the industrial and technological revolutions be the capital of Digitalis This book presents several ambitious and inspirational projects that would enable Europe to be at the heart of the digital revolution *Politics of Big Data* Director Governance and Institutional Development Division Max Everest-Phillips, Max Everest-Phillips, 2018-01-20 This book offers the first in depth examination of the political dimensions of big data and the big data aspects of politics The author the Director of the Global Centre for Public Service Excellence in Singapore suggests that the topic is one of the looming but as yet poorly understood challenges facing humanity from the 4th Industrial Revolution The ongoing digital transformation of society and the economy through emerging technologies that include robotics artificial intelligence and The Internet of Things will have profound political implications This book provides the reader with a perspective on how politics and big data are will and can interact with each other Current enthusiasms and anxieties about big data's potential need to be understood in broad historical context Big data will shift the political landscape The public civil society firms politicians and bureaucrats will increasingly seek to manage the proliferating and deepening usage of Big Data Big data along with closely associated technologies such as algorithmic decision making that is accepting recommendations derived from machine learning algorithms that process the big data shape its potential to shape gain and contend power The politics of big data is concerned with the power relations over data its collection analysis and use The state citizens civil society and business all have interests and incentives to gather use control influence and subvert big data Big data is fundamentally different in scale and detail from traditional sources of knowledge By changing the information on which policy choices are framed and resolved it will affect and be affected by politics By offering unprecedented opportunities and challenges to the ways citizens and governments interact it will alter the nature of the state and the nature of government This study concludes that big data politics will therefore reconfigure the power dynamics of elites and shift the social contract between citizen and state **Update (engl.)** Michael Steinbrecher, Rolf Schumann, 2015-10-12 Big Data is changing all aspects of our lives In tune with the current debate the authors develop positive and negative scenarios reflecting individual facets of life The advantages and disadvantages of our world of data are illustrated in numerous case studies In extensive interviews actors from the worlds of politics science journalism and business have their say *Key Insights from Big Data - a Revolution That Will Transform How We Live, Work*

and Think (Blinkist Summaries) Blinkist, 2014-08-08 Read Blinkist's Key Insights to Big Data and learn more about A Revolution That Will Transform How We Live Work and Think With Blinkist's Key Insights you'll get a swift deep understanding of the book's biggest ideas Let Blinkist be your starting point for deeper reading or an easy way to learn something new About the book Big Data provides an insightful look at why a change to big data is a major shift in how we collect use and think about the data around us It provides great explanations and examples of how individuals and companies already ahead of the curve are using the tools of big data to create value and profit Casting an eye forward the book also outlines the future implications for a big data society in terms of the risks opportunities and legal implications Who should read this Anyone who is interested in learning more about what big data is and what it means for society Anyone who is looking to make a career using big data Anyone from a company who is looking for opportunities to use the data the company collects

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