

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

Big Data permeates all aspects of modern life, and while there is no shortage of potential benefits resulting from this, author Henrik Skaug Sætra argues that we must also understand the threats Big Data poses to liberty. The issues discussed in *Big Data's Threat to Liberty: Surveillance, Nudging, and the Curation of Information* are related to how we are constantly under surveillance. Data is gathered from our homes, our cars, our smartphones, various devices around the house, and public sources such as facial recognition enabled camera surveillance and various websites and social networks. Furthermore, the information gathered is used to influence our actions. Detailed personality profiles are utilized in order to make us purchase products and services, or pay our taxes, through tailor-made nudges aimed at irrational and subconscious mechanisms, and delivered with a level of precision only possible with Big Data-driven algorithmic curation of data. Finally, the information we receive through various media is curated by algorithms, and even people are curated in order to satisfy our desires. By providing us with what the algorithm believes we want, we are spared from the exposure of unpleasant information, and even unpleasant people. The ideological landscapes we traverse are thus characterized by conformity, and a concomitant tyranny of popular opinion becomes ever more coercive as this occurs. The question is: How does being constantly watched, manipulated, and having our world-views shaped as just described affect our freedom? In this book it is argued that Big Data's threat to individual liberty is routinely misunderstood and underappreciated due to (a) vagueness resulting from the concept of liberty being used without it being defined, or (b) the use of definitions based on flawed understandings of what liberty is. In this new and unique contribution to the ethics of Big Data and artificial intelligence, both these challenges are thoroughly addressed. Explanation of key Big Data – related technologies and how they affect modern society, including explanation of surveillance technologies and nudging algorithms, and how Big Data, Machine Learning, and Artificial Intelligence algorithms are used to tailor and mold opinion. Conceptualization of the term liberty, making the concept tangible, as a clear understanding of various forms of liberty enables a proper debate about the effects of technology on liberty, and a debate about what sort of liberty we value. A thorough technical explanation of how Big Data influences individuals by way of surveillance that allows for detailed personality profiles, nudging, and the algorithmic curation of information.

Dieses Buch diskutiert die Digitalisierung, Robotisierung und Automatisierung der Gesellschaft und Wirtschaft und den Einsatz von künstlicher Intelligenz aus einer ethischen Perspektive. Nach einer Einleitung zur Beziehung zwischen Moral und Technologie und einer Bewertung der Moralfähigkeit von Technologien führt das Buch ethische Prinzipien ein, die der ethischen Beurteilung der digitalen Transformation der Gesellschaft und Wirtschaft zugrunde liegen. Anschließend werden Chancen und Herausforderungen der digitalen Transformation aus einer ethischen Sicht analysiert. Schließlich werden hinsichtlich der Herausforderungen ethische Lösungsansätze entwickelt. Einer der Forschungsschwerpunkte von Peter G. Kirchschräger (Ordinarius für Theologische Ethik und Leiter des Instituts für Sozialethik ISE an der Universität Luzern; zuvor Visiting Fellow

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an der Yale University) liegt auf der Ethik der Digitalisierung, Robotisierung, Automatisierung und künstlichen Intelligenz.

Chapter 1 in: Anna Szélgowska, Aneta Pluta-Zaremba (ed.), *The Economics of Sustainable Transformation*, London: Routledge 2021

Blockchain technology is bringing together concepts and operations from several fields, including computing, communications networks, cryptography, and has broad implications and consequences thus encompassing a wide variety of domains and issues, including Network Science, computer science, economics, law, geography, etc. The aim of the paper is to provide a synthetic sketch of issues raised by the development of Blockchains and Cryptocurrencies, these issues are mainly presented through the link between on one hand the technological aspects, i.e. involved technologies and networks structures, and on the other hand the issues raised from applications to implications. We believe the link is a two-sided one. The goal is that it may contribute facilitating bridges between research areas.

Theory of Shocks, COVID-19, and Normative Fundamentals for Policy Responses

To the Man with a Hammer

Economics of Happiness

Trivialization and Public Opinion

History and Current Reality

Core Concepts in Sociology

Ethical Considerations on the Robotization and Automation of Society and the Economy and the Use of Artificial Intelligence

This book focuses on what makes people happy. The author explains methods for measuring subjective life satisfaction and well-being by discussing economic and sociodemographic factors, as well as the psychological, cultural and political dimensions of personal happiness. Does higher income increase happiness? Are people in rich countries, such as the United States, the United Kingdom and Scandinavian countries, happier than those living elsewhere? Does losing one's job make one unhappy? What is the role of genetic endowments inherited from our parents? How important are physical and emotional health to subjective life satisfaction? Do older people tend to be happier, or younger people? Are close social relationships necessary for happiness? Do political conditions, such as respect for human rights, democracy and autonomy, play a part? How can governments contribute to the population's happiness? This book answers these questions on the basis of extensive interdisciplinary research reflecting the current state of knowledge. The book will appeal to anyone interested in learning more about the various dimensions of personal well-being beyond the happiness-prosperity connection, as well as to policymakers looking for guidance on how to improve

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happiness in societies.

“A powerful and timely addition to the literature of rhetoric and folklore.” —Choice In 1860, Abraham Lincoln employed the proverb Right makes might—opposite of the more aggressive Might makes right—in his famed Cooper Union address. While Lincoln did not originate the proverb, his use of it in this critical speech indicates that the fourteenth century phrase had taken on new ethical and democratic connotations in the nineteenth century. In this collection, famed scholar of proverbs Wolfgang Mieder explores the multifaceted use and function of proverbs through the history of the United States, from their early beginnings up through their use by such modern-day politicians as Barack Obama, Hillary Rodham Clinton, and Bernie Sanders. Building on previous publications and unpublished research, Mieder explores sociopolitical aspects of the American worldview as expressed through the use of proverbs in politics, women’s rights, and the civil rights movement—and by looking at the use of proverbial phrases, Mieder demonstrates how one traditional phrase can take on numerous expressive roles over time, and how they continue to play a key role in our contemporary moment.

There are various risks tied to the Web. Toxic evils like cybercrimes, cyberbullying, on-line harassment, aggressive online comments, defamation, hateful speech, plagiarism, etc. are growing among young people. The search of antidotes to fight the above issues is becoming a common concern for governments, educational authorities, teachers, parents and children alike. Literature stresses on the crucial role of education for combating cyber risks among young people. There is a general agreement about the responsibility that schools have in this challenging battle. This book tackles some dark aspects of the Web, explores them thoughtfully and gives the suggestions of experts for preventing them. 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

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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

Research Anthology on Ecosystem Conservation and Preserving Biodiversity

Analyses of European Countries

Advances in Cognitive Computing and its Application to the Governance of Large Urban Systems

Applied Data Science

Thinking Global Acting Indian

Being and Killing

A Participatory Framework to Promote Sustainability

This book explores the complexity of physical and social systems, describing problems related to science policy, networks, values, and education. It stresses that the best advocates for the management of general ideas for the benefit of society are academies that unite top scientists and scholars representing all fields of knowledge. That is why in the context of complexity, the activities of academies are also described, including the current tasks of academies and academia in general.

Centering on public discourse and its fundamental lapses, this book takes a unique look at key barriers to social and political advancement in the information age. Public discourse is replete with confident, easy to manage claims, intuitions, and other shortcuts; outstanding of these is trivialization, the trend to distill multifaceted dilemmas to binary choices, neglect the big picture, gloss over alternatives, or filter reality through a lens of convenience—leaving little room for

nuance and hence debate. Far from superficial, such lapses are symptoms of deeper, intrinsically connected shortcomings inviting further attention. Focusing primarily on industrialized democracies, the authors take their readers on a transdisciplinary journey into the world of trivialization, engaging as they do so the intricate issues borne of a modern environment both enabled and constrained by technology. Ultimately, the authors elaborate upon the emerging counterweights to conventional worldviews and the paradigmatic alternatives that promise to help open new avenues for progress. The evidence-based policing (EBP) movement has intensified in many countries around the world in recent years, resulting in a proliferation of policies and infrastructure to support such a transformation. This movement has come to be associated with particular methods of evaluation and systematic review, which have been drawn from what is assumed to prevail in medicine. Given the credibility EBP is currently enjoying with both practitioners and government, it is timely to subject its underpinning logic to thoughtful scrutiny. This involves deliberating upon the meaning of evidence and what different models of knowledge accumulation and research methods have to offer in realising the aims of EBP. The communication and presentation of evidence to practitioner audiences is another important aspect of EBP, as are collaborative efforts to 'co-produce' new knowledge on police practice. This is the first book that takes a kaleidoscopic approach to depict what EBP presently is and how it could develop. The chapters individually and collectively challenge the underlying logic to the mainstream EBP position, and the book concludes with an agenda for a more inclusive conceptualisation of evidence and EBP for the future. It is aimed at students and academics who are interested in being part of this movement, as well as policymakers and practitioners interested in integrating EBP principles into their practices.

Written by some of the founders of complexity theory and complexity theories of cities (CTC), this Handbook expertly guides the reader through over forty years of intertwined developments: the emergence of general theories of complex self-organized systems and the consequent emergence of CTC.

*Undoing Unintended Consequences for the Earth's Survival
Digital Transformation and Ethics*

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

*Slogans, Substance, and Styles of Thought in the Age of Complexity
Towards Cognitive Cities*

Politics and Big Data

Complexity in Social Systems and Academies

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.

Biophysical Measurement in Experimental Social Science Research: Theory and Practice demonstrates the use of biophysical measurement in laboratory-based experimental social science research and the ways biophysical measures can inform analyses of human behavior. Noting the practical limitations of laboratory-based biophysical measurement, its contributors provide hands-on guidance about biophysical measurement devices. Its Introductory and concluding chapters address ethics, measurement options, and historical and scientific contexts. Highlighting examples of device adoption in experimental social science lab settings, this book makes these tools understandable and accessible to all. Demonstrates the strengths and limitations of tools in both research objectives and practicality Provides hands-on guidance for device usage and data implementation, integration and assessment Compares and contrasts the uses of biophysical data in research objectives and disciplines

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

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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.

This book has two main goals: to define data science through the work of data scientists and their results, namely data products, while simultaneously providing the reader with relevant lessons learned from applied data science projects at the intersection of academia and industry. As such, it is not a replacement for a classical textbook (i.e., it does not elaborate on fundamentals of methods and principles described elsewhere), but systematically highlights the connection between theory, on the one hand, and its application in specific use cases, on the other. With these goals in mind, the book is divided into three parts: Part I pays tribute to the interdisciplinary nature of data science and provides a common understanding of data science terminology for readers with different backgrounds. These six chapters are geared towards drawing a consistent picture of data science and were predominantly written by the editors themselves. Part II then broadens the spectrum by presenting views and insights from diverse authors - some from academia and some from industry, ranging from financial to health and from manufacturing to e-commerce. Each of these chapters describes a fundamental principle, method or tool in data science by analyzing specific use cases and drawing concrete conclusions from them. The case studies presented, and the methods and tools applied, represent the nuts and bolts of data science. Finally, Part III was again written from the perspective of the editors and summarizes the lessons learned that have been distilled from the case studies in Part II. The section can be viewed as a meta-study on data science across a broad range of domains, viewpoints and fields. Moreover, it provides answers to the question of what the mission-critical factors for success in different data science undertakings are. The book targets professionals as well as students of data science: first, practicing data scientists in industry and academia who want to broaden their scope and expand their knowledge by drawing on the authors' combined experience. Second, decision makers in businesses who face the challenge of creating or implementing a data-driven strategy and who want to learn from success stories spanning a range of industries. Third, students of data science who want to understand both the theoretical and practical

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aspects of data science, vetted by real-world case studies at the intersection of academia and industry.

Next Civilization

Handbook on Cities and Complexity

Foregrounding Innovative Productions, Workplaces and Public Policies in Contemporary Cities

Fabbrica 4.0: i processi innovativi nel Multiverso fisicodigitale

Nowcasting and Forecasting Elections with Social Media

Advances in Evidence-Based Policing

Serial Killers - Philosophy for Everyone

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.

This book introduces the readers to the new concept of cognitive cities. It demonstrates why cities need to become cognitive and why therefore a concept of cognitive city is needed. It highlights the main building blocks of cognitive cities and illustrates the concept by various cases.

Following a concise introductory chapter the book features nine chapters illustrating various aspects and dimensions of cognitive cities. The logic of its structure proceeds from

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more general considerations to more specific illustrations. All chapters offer a comprehensive view of the different research endeavours about cognitive cities and will help pave the way for this new and innovative approach to governing cities in the future.

An essential guide to the basic concepts that comprise the study of sociology with contributions from an international range of leading experts *Core Concepts in Sociology* is a comprehensive guide to the essential concepts relevant to the current study of the discipline and wider social science. The contributing authors cover a wide range of concepts that remain at the heart of sociology including those from its academic founding and others much more recent in their development. The text contains contributions from an international panel of leading figures in the field, utilizing their expertise on core concepts and presenting an accessible introduction for students. Drawing on the widest range of ideas, research, current literature and expert assessment, *Core Concepts in Sociology* contains over 90 concepts that represent the discipline. Coverage includes concepts ranging from aging to capitalism, democracy to economic sociology, epistemology to everyday life, media to risk, stigma and much more. This vital resource: Sets out the concepts that underpin the study of sociology and wider social science Contains contributions from an international panel of leading figures in the field Includes a comprehensive review of the basic concepts that comprise the foundation and essential development of the discipline Designed as a concise and accessible resource Written for students, researchers and wider professionals with an interest in the field of sociology, *Core Concepts in Sociology* offers a concise, affordable and accessible resource for studying the underpinnings of sociology and social science.

This handbook provides an overview on major developments that occurred in the field of economic sociology after its rebirth since the 1980s in the US. It offers new insights on the uniqueness of European economic sociology compared to US economic sociology which emerged at the end of the 20th century. The handbook presents economic sociology as a developing field which started with certain foundations as new economic sociology, widening the perspective by introducing social factors thereby focusing more on general

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belief systems, social forms of coordination and the relationships between society and the economy. It offers an outstanding portrait of the research field helping to identify major foundations and trajectories as well as new research perspectives for a globalized economic sociology. This makes the handbook appeal to specialized researchers of the field, researchers from other disciplines interested in economic phenomena, as well as graduate and postgraduate students.

Selected Essays on China's Education: Research and Review, Volume 2

From Museums to the Web

Living to Work in the Age of Control

Theory and Practice

Mapping an Emergent Jurisprudence

The Indian Boss at Work

New Theoretical Approaches, Empirical Studies and Developments

The importance of social media as a way to monitor an electoral campaign is well established. Day-by-day, hour-by-hour evaluation of the evolution of online ideas and opinion allows observers and scholars to monitor trends and momentum in public opinion well before traditional polls. However, there are difficulties in recording and analyzing often brief, unverified comments while the unequal age, gender, social and racial representation among social media users can produce inaccurate forecasts of final polls. Reviewing the different techniques employed using social media to nowcast and forecast elections, this book assesses its achievements and limitations while presenting a new technique of "sentiment analysis" to improve upon them. The authors carry out a meta-analysis of the existing literature to show the conditions under which social media-based electoral forecasts prove most accurate while new case studies from France, the United States and Italy demonstrate how much more accurate "sentiment analysis" can prove.

Serial Killers - Philosophy for Everyone investigates our profound intrigue with mass-murderers. Exploring existential, ethical and political questions through an examination of real and fictional serial killers, philosophy comes alive via an exploration of grisly death. Presents new philosophical theories about serial killing, and relates new research in cognitive science to the minds of serial killers Includes a philosophical look at real serial killers such as Ian Brady, Ted Bundy, John Wayne Gacy, Jeffrey Dahmer and the Zodiac killer, as well as fictional serial killers such as Dexter and Hannibal Lecter Offers a new phenomenological examination of the writings of the Zodiac Killer Contains an account of the disappearance of one of Ted Bundy's victims submitted by the organization Families and Friends of Missing Persons and Violent Crime Victims Integrates the insights of philosophers, academics, crime writers and police officers

"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

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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.

This collection of essays explores the different ways the insights from complexity theory can be applied to law. Complexity theory - a variant of systems theory - views law as an emergent, complex, self-organising system comprised of an interactive network of actors and systems that operate with no overall guiding hand, giving rise to complex, collective behaviour in law communications and actions. Addressing such issues as the unpredictability of legal systems, the ability of legal systems to adapt to changes in society, the importance of context, and the nature of law, the essays look to the implications of a complexity theory analysis for the study of public policy and administrative law, international law and human rights, regulatory practices in business and finance, and the practice of law and legal ethics. These are areas where law, which craves certainty, encounters unending, irresolvable complexity. This collection shows the many ways complexity theory thinking can reshape and clarify our understanding of the various problems relating to the theory and practice of law.

"Right Makes Might"

Biophysical Measurement in Experimental Social Science Research

Proverbs and the American Worldview

The Evil Side of the Web

Lessons Learned for the Data-Driven Business

Emerging Research and Opportunities

Big Data's Threat to Liberty

An interdisciplinary volume of essays identifying the impact of technology on the age-old cultural practice of collecting as well as the opportunities and pitfalls of collecting in the digital era. Competition in today's global market offers strong motivation for the development of sophisticated tools within computer science. The neuron multi-functional technology platform is a developing field of study that regards the various interactive approaches that can be applied within this subject matter. As advancing technologies continue to emerge, managers and researchers need a compilation of research that discusses the advancements and specific implementations of these intelligent approaches with this platform. Avatar-Based Control, Estimation, Communications, and Development of Neuron Multi-Functional Technology Platforms is a pivotal reference source that provides vital research on the application of artificial and natural approaches towards neuron-based programs. While highlighting topics such as natural intelligence, neurolinguistics, and smart data storage, this publication presents techniques, case studies, and methodologies that combine the use of intelligent artificial and natural approaches

with optimization techniques for facing problems and combines many types of hardware and software with a variety of communication technologies to enable the development of innovative applications. This book is ideally designed for researchers, practitioners, scientists, field experts, professors, and students seeking current research on the optimization of avatar-based advancements in multifaceted technology systems.

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

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
Political Identity and Democratic Citizenship in Turbulent Times

Essays on the Dark and Light Sides of the Digital Revolution
Digital Democracy and Socio-Ecological Finance - How to Avoid Dystopia and Upgrade Society by Digital Means
Avatar-Based Control, Estimation, Communications, and Development of Neuron Multi-Functional Technology Platforms
Research Ethics in the Digital Age

Blockchain and cryptocurrencies technologies and network structures: applications, implications and beyond

In today's rapidly evolving world, it has never been more critical to consider key environmental issues such as climate change, pollution, and endangered species. Society faces an unknown future where the fate of the environment is continuously in flux based on current preservation initiatives that governments develop. In order to ensure the world is protected moving forward, further study on the importance of securing environments, ecosystems, and species is necessary to successfully implement change. The Research Anthology on Ecosystem Conservation and Preserving Biodiversity considers the best practices and strategies for protecting our current ecosystems as well as the

potential ramifications of failing to implement policies. Society is at a crossroads where if we continue to ignore the danger and warning signs brought about by environmental issues, we will be unable to maintain a healthy environment. Covering essential topics such as extinction, climate change, and pollution, this major reference work is ideal for scientists, industry professionals, researchers, academicians, policymakers, scholars, practitioners, instructors, and students. It is commonly shared the idea that social innovation is the creation of social value by solving social problems. Accordingly, social innovation can be deemed to be the production of new solutions to social problems in a more effective, efficient, and sustainable way. Analyzing the consequences of the current economic crisis and its impact on health care services, there is who has advanced the idea that social innovation can constitute an effective strategy to counter-balance the retrenchment of public social provision. This book tackles the multiple facets of social innovation focusing on its relationship with the new technologies and the new forms of entrepreneurship.

Siamo entrati nell'era digitale: dispositivi computazionali sempre più potenti sono inseriti dappertutto e generano volumi crescenti di informazioni. La digitalizzazione di processi e prodotti implica la combinazione di conoscenze differenti: strutturate, non strutturate, testuali, visive, sonore. Emergono cambiamenti profondi ed estesi: dall'ideazione di un bene o un servizio alla diffusione sui mercati e alle interazioni con i consumatori. Le relazioni tra mondo fisico e virtuale saranno fonte di continue innovazioni grazie alla pervasività di agenti artificiali dotati di capacità prossime a quelle umane: apprendimento, adattabilità, abilità previsionali. È l'"universo fisico-digitale", che richiede nuovi strumenti di conoscenza ed innovative strategie decisionali.

"Drawing upon political philosophy and political economy, Benda Hofmeyr presents a Foucaultian analysis and historical contextualisation of the rise of neo-liberal governmentality. Historical, sociological and cultural studies help excavate the genealogy of the capitalist subject within the neo-liberal governmental context of the last four decades"--

*Handbook of Economic Sociology for the 21st Century
Complexity Theory and Law*

Surveillance, Nudging, and the Curation of Information

Introduction to Social Innovation

Augmenting the Policymaker's Toolbox for a Complex World

Social Sustainability, Past and Future

ICT-Driven Economic and Financial Development

Journey into the kaleidoscope of Indian business and explore the context and

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forces and worldview of Indian leaders. Unravel secrets to building successful companies based on generational learnings, attitudes and capabilities. Read through the narratives of top Indian bosses where they reflect on their "Indian-ness" that helped them transform into global leaders. From Harsh Mariwala to Som Mittal to women leaders such as Naina Lal Kidwai and Kiran Mazumdar-Shaw, there are many distinguished names in this book that add to the Indian leadership fold. The book responds to oft asked questions such as: What are the winning traits of Indian bosses? What cultural influences have shaped their mindsets? What makes them adaptable in any business situation? What can the West learn from India on leadership? Discover and leverage: " The pluralistic notion of Indianness " Forces of desh (place) and kaal (time) " The praxis of collectivism and hierarchy " Context sensitivity and co-holding paradoxes and dilemmas " Multifacets of the Indian leader " Insights from ancient inheritance and modern legacy " Awareness of what impedes women leaders " The opportunity for Indian youth The wisdom of Indian-ness—the World is One—belongs to all humans. It invites the corporate Rishi within us, to act with ecological balance, inclusion and harmony.

Selected Essays on China's Education: Research and Review (4 volumes) consists of 22 most influential theses on the history and tradition of Chinese Education. These essays explore important educational and cultural issues in China with a transcultural perspective.

ICT-Driven Economic and Financial Development: Analyses of European Countries demonstrates the effects of ICT diffusion on economic, social and financial development by examining their impact on the structure and dynamics of national economies. It provides the insight into shifts observed in labour markets, international trade activities productivity factors, education and use of innovative financial products. It combines empirical analyses and data sources stretching back to 1990 make it an important contribution to understanding the effects of ICT diffusion on economic and financial development. The book answers questions such as how will national and regional economies react to upcoming ICT developments and growing usage, and what is the magnitude of impact of new information and communication technologies on various aspects of social and economic life. Demonstrates the process fo ICT spread across European countries Analyzes the value of ICTs from both economic and social perspective Examines structural changes in financial markets caused by ICTs implementation

A novel, integrated approach to understanding long-term human history, viewing it as the long-term evolution of human information-processing. This title is also available as Open Access.

Foucault and Governmentality

Routledge Handbook of Bounded Rationality

Towards Digital Enlightenment

New Urban Geographies of the Creative and Knowledge Economies

Hearst's International

Ethics for the Social Sciences and Humanities in Times of Mediatization and Digitization

Collecting in the Twenty-First Century

The phenomenon of shocks is often mentioned in relation to economic crises but rarely studied. This gap in research has resulted in shocks being poorly understood, with no fundamental explanation of their inciting conditions. It is a system-forming problem that cannot be investigated without dynamic ideas about the economy, but an incomplete understanding of this event leaves economic systems vulnerable to collapse. *Theory of Shocks, COVID-19, and Normative Fundamentals for Policy Responses* is an essential publication that explores the factors that cause economic shocks and the mechanisms of their implementation. The book serves as a resource for the development of policy-oriented frameworks for achieving and maintaining national and international strategies to properly manage future global shocks. Featuring coverage of a wide range of topics including dialectics, self-evolvement, and structural relationships, this book is ideally designed for economists, executives, managers, entrepreneurs, academicians, students, and researchers in the areas of finance, macroeconomics, economic theory, and risk assessment.

The book discusses the multiple issues of a digital research ethic in its interdisciplinary diversity. Digitization and mediatization alter social behavior and cultural traditions, thereby generating new objects of study and new research questions for the social sciences and humanities. Furthermore, mediatization and digitization increase the data volume and accessibility of (quantitative) research and proliferate methodological opportunities for scientific analyses. Hence, they profoundly affect research practices in multiple ways. While consequences concerning the subjects, objects, and addressees of research in the social sciences and humanities have rarely been reflected upon, this reflection lies at the center of the book.

This Open Access book outlines ideas for a novel, scalable and, above all, sustainable financial system. We all know that today's global markets are unsustainable and global governance is not effective enough. Given this situation, could one boost smart human coordination, sustainability and resilience by tweaking society at its core: the monetary system? A Computational Social Science team at ETH Zürich has indeed worked on a concept and little demonstrator for a new financial system, called "Finance 4.0" or just "FIN4", which combines blockchain technology with the Internet of Things ("IoT"). What if communities could reward sustainable actions by issuing their own money ("tokens")? Would people behave differently, when various externalities became visible and were actionable through cryptographic tokens? Could a novel, participatory, multi-dimensional financial system be created? Could it be run by the people for the people and lead to more societal resilience than today's financial system (which is effectively one-dimensional due to its almost frictionless exchange)? How could one manage such a system in an ethical and democratic way? This book presents some early attempts in a nascent field, but provides a fresh view on what cryptoeconomic systems could do for us, for a circular economy, and for scalable, sustainable action.

Turbulent times challenge democratic politics and governance in Western countries. Party systems, in many instances, have failed to produce solutions to vital policy problems, like immigration, state borders, welfare, or environmental issues. While subjective perceptions of macroeconomic outcomes are consistently related to political trust at the micro level, few studies have explored how individuals develop political engagement and identity. New insights are needed from studies focusing on how people become politically active and how political identities develop. *Political Identity and Democratic Citizenship in Turbulent Times* is a critical

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scholarly research publication that investigates, discusses, deconstructs, analyzes, and tests the concept of political identity and its evolving role in modern democracy. Moreover, it explores the contours of politics and brings together studies that examine the democratic potential of a diversity of participatory spheres, institutions, and arenas. Highlighting topics such as political culture, consumerism, and welfare states, this book is ideal for politicians, policymakers, government officials, sociologists, historians, academicians, professionals, researchers, and students.

Finance 4.0 - Towards a Socio-Ecological Finance System

Transformation of the economy Towards era 5.0 (Anna Szelągowska, Aneta Pluta-Zaremba)