
2017 Emerging Georgia Tech

Explaining and Predicting Our Digital Society, Vol. 1
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FREDDY DALE

Explaining and Predicting Our Digital Society, Vol. 1 Cambridge University Press

An examination of environmental satellite data sharing policies, offering a model of data-sharing policy development, case and practical recommendations for increasing global data sharing. Key to understanding and addressing climate change is continuous and precise monitoring of environmental conditions. Satellites play an important role in collecting climate data, offering comprehensive global coverage that can't be matched by in situ observation. And yet, as Mariel Borowitz shows in this book, much satellite data is not freely available but restricted; this remains true despite the data-sharing advocacy of international organizations and a global open data movement. Borowitz examines policies governing the sharing of environmental satellite data, offering a model of data-sharing policy development and applying it in case studies from the United States, Europe, and Japan—countries responsible for nearly half of the unclassified government Earth observation satellites. Borowitz develops a model that centers on the government agency as the primary actor while taking into account the roles of such outside actors as other government officials and non-governmental actors, as well as the economic, security, and normative attributes of the data itself. The case studies include the U.S. National Aeronautics and Space Administration (NASA) and the U.S. National Oceanographic and Atmospheric

Association (NOAA), and the United States Geological Survey (USGS); the European Space Agency (ESA) and the European Organization for the Exploitation of Meteorological Satellites (EUMETSAT); and the Japanese Aerospace Exploration Agency (JAXA) and the Japanese Meteorological Agency (JMA). Finally, she considers the policy implications of her findings for the future and provides recommendations on how to increase global sharing of satellite data.

6th International Conference on Digital Economy, ICDEc 2021, Tallinn, Estonia, July 15-17, 2021, Proceedings Routledge

This global handbook provides an up-to-date and comprehensive overview of shadow banking, or market-based finance as it has been recently coined. Engaging in financial intermediary services outside of normal regulatory parameters, the shadow banking sector was arguably a critical factor in causing the 2007-2009 financial crisis. This volume focuses specifically on shadow banking activities, risk, policy and regulatory issues. It evaluates the nexus between policy design and regulatory output around the world, paying attention to the concept of risk in all its dimensions—the legal, financial, market, economic and monetary perspectives. Particular attention is given to spillover risk, contagion risk and systemic risk and their positioning and relevance in shadow banking activities. Newly introduced and incoming policies are evaluated in detail, as well as how risk is managed, observed and assessed, and how new regulation can potentially create new sources of risk. Volume I concludes with analysis of what will and still needs to happen in the event of another crisis. Proposing innovative suggestions for improvement, including

a novel Pigovian tax to tame financial and systemic risks, this handbook is a must-read for professionals and policy-makers within the banking sector, as well as those researching economics and finance.

The New PhD University of Georgia Press

A primer on legal issues relating to cyberspace, this textbook introduces business, policy and ethical considerations raised by our use of information technology. With a focus on the most significant issues impacting internet users and businesses in the United States of America, the book provides coverage of key topics such as social media, online privacy, artificial intelligence and cybercrime as well as emerging themes such as doxing, ransomware, revenge porn, data-mining, e-sports and fake news. The authors, experienced in journalism, technology and legal practice, provide readers with expert insights into the nuts and bolts of cyber law. *Cyber Law and Ethics: Regulation of the Connected World* provides a practical presentation of legal principles, and is essential reading for non-specialist students dealing with the intersection of the internet and the law.

Emerging Technologies for Health and Medicine CRC Press

"In the first decade of this century, for the first time in history, the majority of the planet's population resided in cities. We are an urban planet. If ongoing changes in climate are to have an impact on the human species, most of these impacts will play out in cities. This fact was brought into full relief in the summer of 2003, when more than 70,000 residents of Europe perished in one of the most prolonged and intense heat waves in human history. The final death toll would exceed that associated

with any Western European or American conflict since World War II, or any other natural disaster to have ever struck a region of the developed world, and the vast majority of these deaths occurred in cities. Studies in the aftermath of the heat wave would show that not only had global warming increased the likelihood of such an extreme event, but that the intensity of the heat had been greatly enhanced by the physical design of the cities themselves, exposing residents of cities to a much greater risk of illness or death than others. This book is the first to explore the dramatic amplification of global warming underway in cities and the range of actions that can be taken to slow the pace of warming. A core thesis of the book is that the principal strategy advocated by the global science community to mitigate climate change - the reduction of greenhouse gases - will not prove sufficient to measurably slow the rapid pace of warming in cities"--

Innovative Perspectives Across Art, Industry, and Academia Apress

An explanation of the digital practices of the black Internet From BlackPlanet to #BlackGirlMagic, *Distributed Blackness* places blackness at the very center of internet culture. André Brock Jr. claims issues of race and ethnicity as inextricable from and formative of contemporary digital culture in the United States. *Distributed Blackness* analyzes a host of platforms and practices (from Black Twitter to Instagram, YouTube, and app development) to trace how digital media have reconfigured the meanings and performances of African American identity. Brock moves beyond widely circulated deficit models of respectability, bringing together discourse analysis with a close reading of technological interfaces to develop

nuanced arguments about how “blackness” gets worked out in various technological domains. As Brock demonstrates, there’s nothing niche or subcultural about expressions of blackness on social media: internet use and practice now set the terms for what constitutes normative participation. Drawing on critical race theory, linguistics, rhetoric, information studies, and science and technology studies, Brock tabs between black-dominated technologies, websites, and social media to build a set of black beliefs about technology. In explaining black relationships with and alongside technology, Brock centers the unique joy and sense of community in being black online now.

How to Build a Better Graduate

Education Harvard University Press

The logics of digital processes in architecture have begun to structure the way that architects design, the way that builders build, and the way that industry is reorganizing. The process of architectural design has become a complex workflow. At the core of the shift toward more expansive forms of digital production within the design and construction industry is the integration of communication through digital networks. The goal is to develop a continuous, easily accessible and parametrically adaptable body of information that coordinates the process from design through a building’s lifecycle. Organized around the key fields of Designing Design, Designing Assembly and Designing Industry, this book is a reference work on digital technologies as key factors in architectural design, fabrication and workflow organization. It presents essays and case studies from some of the leading voices on the topic.

The City and the Coming Climate

Haymarket Books

This volume describes the most salient changes faced by key Chinese industry sectors as defining components of global and domestic macroeconomic performance. Set within the context of the Global China 2049 initiative, which aims to transform the country into a fully advanced and developed nation, chapters focus specifically on industrial policies that are considered to be one of the main determinants of Chinese growth. Covering sectors such as healthcare, aerospace, microprocessors and other data driven industries, chapters highlight the pitfalls and anticipated successes of Chinese firms operating in the global competitive market. Importantly, the book fosters debate on how Chinese industries will achieve competitive growth in the post-pandemic era. Ultimately the book discusses the likelihood of China achieving a leading position in terms of processes and innovation and suggests a road to future research on China’s industrial trajectory. Francesca Spigarelli is Associate Professor of Applied Economics, at the University of Macerata and Director of the China Center. She is Vice Rector for Entrepreneurship and Technological Transfer and for European research policy and is member of the board of Chinese Globalization Association (www.chinagoesglobal.org). John McIntyre has been Director of the Georgia Tech Center for International Business Education and Research (CIBER), a national center of excellence, since 1993 and a full Professor of International Business Management and International Relations with joint appointments in the College of Management and the Sam Nunn School of International Affairs of the Georgia

Institute of Technology, Atlanta, Georgia. [Online Education World Scientific](#)

The Manufacturing USA initiative seeks to reinforce U.S.-based advanced manufacturing through partnerships among industry, academia, and government. Started in 2012 and established with bipartisan support by the Revitalize American Manufacturing and Innovation Act of 2014, the initiative envisages a nationwide network of research centers for manufacturing innovation. As of May 2017, 14 manufacturing innovation institutes had been established to facilitate the movement of early-stage research into proven capabilities ready for adoption by U.S. manufacturers. To better understand the role and experiences of the Manufacturing USA institutes to date, a committee of the Innovation Policy Forum of the National Academies of Sciences, Engineering, and Medicine convened a workshop on May 23, 2017 drawing together institute directors and manufacturing policy experts along with leaders from industry, academia, and government. Participants addressed the role of the manufacturing institutes in increasing advanced manufacturing in the United States, examined selected foreign programs designed to support advanced manufacturing, and reviewed recent assessments of existing institutes. This publication summarizes the presentations and discussions from the workshop.

The University of the 21st Century

Emerald Group Publishing

Multinational economic actors, particularly corporations, play a defining role in the response to the climate change or warming debate and the emerging scientific consensus. This book describes, explains, and predicts how multinational firms will rise to the

multiple challenges posed by global climate issues and the organizational and behavioral various responses of the international corporate community. It focuses on three core research and learning objectives. Firstly, it develops the core idea that multinational enterprises cannot implement meaningful sustainability initiatives without an appropriate governance system and corporate culture. Building on this notion, it addresses the question of environmental sustainability across select industry sectors, such oil and banking. Finally, drawing on a diverse range of contributing experts, it presents select best practices such as the opportunities arising from smart technologies implementation to achieve symbiotic industrial relationships, directed particularly towards the ecological environment of these firms' transborder operations and global reach. [Emerging Research and Opportunities](#) MIT Press

The book provides insight into the current development of ten 21st century technologies that will impact community colleges and universities in the next 5-30 years.

Springer

Explores the current context, role, and challenges of post-secondary education and presents options for promising pathways forward. The post-secondary educational system has undergone dramatic changes and experienced immense stress in the past two decades. Once regarded as the logical next step toward career opportunities and financial security, higher education is a subject of growing uncertainty for millions of people across the United States. It is more common than ever to question the return on investment, skyrocketing cost, and student debt burden of going to

college. Prospective students, and many employers, increasingly view attending institutions of higher learning as inadequate preparation for entering the 21st century workforce. High-profile scandals—financial impropriety, sexual abuse, restrictions of free speech, among others—have further eroded public trust. In response to these and other challenges, leading voices are demanding strengthened accountability and measurable change. Higher Education's Road to Relevance illustrates why change is needed in post-secondary education and offers practical solutions to pressing concerns. The authors, internationally recognized experts in college-level teaching and learning innovation, draw heavily from contemporary research to provide an integrative approach for post-secondary faculty, staff, and administrators of all levels. This timely book helps readers identify the need for leadership in developing new networks and ecosystems of learning and workforce development. This valuable book will help readers: Understand the forces driving change in higher education Develop multiple pathways to create and credential self-directed learners Promote access to flexible, cost-effective, and relevant learning Adapt structures and pedagogies to address issues and overcome challenges Use an inclusive approach that extends to employers, K-12 educators, post-secondary educators, and policy-makers, among others Higher Education's Road to Relevance is a much-needed resource for college and university administrators, academic researchers, instructors and other faculty, and staff who support and interact with students.

Higher Education at the Crossroads of Disruption Springer Science &

Business Media

Even in its earliest history, cyberspace had disruptions, caused by malicious actors, which have gone beyond being mere technical or criminal problems. These cyber conflicts exist in the overlap of national security and cybersecurity, where nations and non-state groups use offensive and defensive cyber capabilities to attack, defend, and spy on each other, typically for political or other national security purposes. A two-year study, resulting in the new book -- *A Fierce Domain: Cyber Conflict, 1986 to 2012* -- has made the following conclusions, which are very different from those that policymakers are usually told: Cyber conflict has changed only gradually over time, making historical lessons especially relevant (though usually ignored). The probability and consequence of disruptive cyber conflicts has been hyped while the impact of cyber espionage is consistently underappreciated. The more strategically significant the cyber conflict, the more similar it is to conflict in the other domains ? with one critical exception.

[An IT Professional's Guide to Microsoft Azure Security Center](#) Springer Nature This open access book analyzes the main drivers that are influencing the dramatic evolution of work in Asia and the Pacific and identifies the implications for education and training in the region. It also assesses how education and training philosophies, curricula, and pedagogy can be reshaped to produce workers with the skills required to meet the emerging demands of the Fourth Industrial Revolution. The book's 40 articles cover a wide range of topics and reflect the diverse perspectives of the eminent policy makers, practitioners, and researchers who authored them. To

maximize its potential impact, this Springer-Asian Development Bank co-publication has been made available as open access.

Using Technology to Catalyse Change in University Learning and Teaching IGI Global

This book examines emerging theories, frameworks, and applications of global marketing for the 21st century. It highlights how global marketing is changing in a globalized and digital economy that is fast increasing in complexity and uncertainty. The traditional approach to global marketing is no longer sufficient to address the emerging issues in global markets. Global companies need to challenge traditional assumptions in global marketing in an era of shifting political, cultural, economic, and technological changes. They need to take a fresh look at the contemporary threats and opportunities in markets, institutions, and technology and how they affect entry and expansion strategies through careful re-calibration of the marketing-mix. This book offers new insights for global marketing that addresses these issues. This book should be an ideal resource to both academic scholars and reflective practitioners globally such as CEOs and chief marketing officers as well as government officials and policy makers interested in formulating strategies/policies for global marketing activities in the face of a globalized and digitized economy. This well-crafted research volume is an excellent addition to the growing literature on new trends in international marketing. The authors present the latest insight on the impact of phenomena such as cross-border e-commerce and digital markets, and they discuss new tools for political risk assessment, international branding and

more broadly the reconfiguring of marketing-mix strategies – A powerful reminder that the new global market remains a rugged landscape. - Alain Verbeke, McCaig Research Chair in Management and Editor-in-Chief Journal of International Business Studies, University of Calgary, Canada. Emerging trends in institutions, markets, and societies, along with new technological advances, are redefining the scope and strategy in global marketing. Professors Agarwal and Wu have assembled a remarkable collection of cutting-edge topics and issues that capture the shifting paradigm and contemporary developments in the global marketing field. This is an informative and timely resource that makes a valuable contribution, useful for both scholars and business practitioners of global marketing. - Constantine S. Katsikeas, Arnold Ziff Endowed Research Chair in Marketing & International Management, Editor-in-Chief Journal of International Marketing, University of Leeds, UK. This book presents new and cutting-edge thinking at a time when the traditional views of international marketing need to be scrapped. Convergence forces are creating new opportunities as well as threats on a daily basis, and marketing practitioners as well as scholars must be forewarned as well as forearmed on how to deal with these changes. The real growth is coming from the emerging nations, and the theories that provided sufficient insights ten years ago have been completely outmoded by the ever-accelerating rate of innovation and technological change as well as the pressures to address the needs of all of the firm's relevant stakeholders. The strategic insights provided here are absolutely invaluable. Don't miss an opportunity to read this book!! - John B.

Ford, Professor of Marketing & International Business, Eminent Scholar & Haislip-Rohrer Fellow, Editor-in-Chief, Journal of Advertising Research, Old Dominion University, USA.

Inventing the Medium Stylus Publishing, LLC

The heart of the contemporary argument on climate change and energy transition focuses on how energy supply should be decarbonized to mitigate greenhouse gas emissions. This book proposes an alternative approach. *The Age of Fire Is Over: A New Approach to the Energy Transition* finds that energy transitions are not driven by supply-side driven transformations but rather by evolutions in demand patterns. Exploring the potential of recently emerged key technologies, *The Age of Fire Is Over* argues that the so-called Energy Transition has not yet started. In the future, key technologies will significantly transform demand and provide services at a fraction of today's cost or offer new services not yet imagined. To a large extent, energy paradigm shifts are driven by such evolutions, largely inevitable and often unanticipated, because they provide societies with greater benefits: lower costs, more jobs, and rapid adaptation. This book closes with key novel recommendations for government institutions to accelerate the energy transition, which — instead of replicating an approach from the past — should focus on these demand transformations to both advance civilization and mitigate climate change. With Foreword by Jean-Pascal Tricoire, Schneider Electric Chief Executive Officer.

CSR and Climate Change Implications for Multinational Enterprises Routledge

The overall mission of this book is to provide a comprehensive understanding

and coverage of the various theories and models used in IS research. Specifically, it aims to focus on the following key objectives: To describe the various theories and models applicable to studying IS/IT management issues. To outline and describe, for each of the various theories and models, independent and dependent constructs, reference discipline/originating area, originating author(s), seminal articles, level of analysis (i.e. firm, individual, industry) and links with other theories. To provide a critical review/meta-analysis of IS/IT management articles that have used a particular theory/model. To discuss how a theory can be used to better understand how information systems can be effectively deployed in today's digital world. This book contributes to our understanding of a number of theories and models. The theoretical contribution of this book is that it analyzes and synthesizes the relevant literature in order to enhance knowledge of IS theories and models from various perspectives. To cater to the information needs of a diverse spectrum of readers, this book is structured into two volumes, with each volume further broken down into two sections. The first section of Volume 1 presents detailed descriptions of a set of theories centered around the IS lifecycle, including the Success Model, Technology Acceptance Model, User Resistance Theories, and four others. The second section of Volume 1 contains strategic and economic theories, including a Resource-Based View, Theory of Slack Resources, Portfolio Theory, Discrepancy Theory Models, and eleven others. The first section of Volume 2 concerns socio-psychological theories. These include Personal Construct Theory, Psychological Ownership, Transactive Memory,

Language-Action Approach, and nine others. The second section of Volume 2 deals with methodological theories, including Critical Realism, Grounded Theory, Narrative Inquiry, Work System Method, and four others. Together, these theories provide a rich tapestry of knowledge around the use of theory in IS research. Since most of these theories are from contributing disciplines, they provide a window into the world of external thought leadership.

Anchoring Innovation Districts JHU Press Responding to both the trend towards increasing online enrollments as the demand for face-to-face education declines, and to the immediate surge in remote learning owing to the COVID-19 pandemic, this book provides vital guidance to higher education institutions on how to develop faculty capacity to teach online and to leverage the affordances of an ever-increasing array of new and emerging learning technologies. This book provides higher education leaders with the context they need to position their institutions in the changing online environment, and with guidance to build support in a period of transition. It is intended for campus leaders and administrators who work with campus teams charged with identifying learning technologies to meet an agreed upon program- or institution-level educational needs; for those coordinating across campus to build consensus on implementing online strategies; and for instructional designers, faculty developers and assessment directors who assist departments and faculty effectively integrate learning technologies into their courses and programs. It will also appeal to faculty who take an active interest in improving online teaching. The contributors to this volume describe the

potential of artificial intelligence algorithms, such as those that fuel learning analytics software that mines LMS data to enable faculty to quickly and efficiently assess individual students' progress in real time, prompting either individual attention or the need to more generally clarify concepts for the class as whole. They describe and provide access to a hybrid professional development MOOC and an associated WIKI that curate information about a wide range of learning software solutions currently available; and present case studies that offer guidance on building the buy-in and consensus needed to successfully integrate learning technologies into course, program- and institution-level contexts. In sum, this book provides readers with a comprehensive understanding of the technological capabilities available to them and identifies collaborative processes related to engaging and building institutional support for the changes needed to provide the rapidly growing demand for effective and evidence-based online learning.

Principles of Interaction Design as a Cultural Practice Rowman & Littlefield A foundational text offering a unified design vocabulary and a common methodology for maximizing the expressive power of digital artifacts. Digital artifacts from iPads to databases pervade our lives, and the design decisions that shape them affect how we think, act, communicate, and understand the world. But the pace of change has been so rapid that technical innovation is outstripping design. Interactors are often mystified and frustrated by their enticing but confusing new devices; meanwhile, product design teams struggle to articulate shared and enduring design goals. With *Inventing the Medium*, Janet

Murray provides a unified vocabulary and a common methodology for the design of digital objects and environments. It will be an essential guide for both students and practitioners in this evolving field. Murray explains that innovative interaction designers should think of all objects made with bits—whether games or Web pages, robots or the latest killer apps—as belonging to a single new medium: the digital medium. Designers can speed the process of useful and lasting innovation by focusing on the collective cultural task of inventing this new medium. Exploring strategies for maximizing the expressive power of digital artifacts, Murray identifies and examines four representational affordances of digital environments that provide the core palette for designers across applications: computational procedures, user participation, navigable space, and encyclopedic capacity. Each chapter includes a set of Design Explorations—creative exercises for students and thought experiments for practitioners—that allow readers to apply the ideas in the chapter to particular design problems. *Inventing the Medium* also provides more than 200 illustrations of specific design strategies drawn from multiple genres and platforms and a glossary of design concepts.

New Models for Lifelong Learning in the Digital Economy Springer

A look at the destructive history of science-for-profit, including its toll on the US pandemic response, by the author of *A People's History of Science*. Despite a facade of brilliant technological advances, American science has led humanity to the brink of interrelated disasters. In *The Tragedy of American Science*, historian of science Clifford D.

Conner describes the dual processes by which this history has unfolded since the Second World War, addressing the corporatization and the militarization of science in the US. He examines the role of private profit considerations in determining the direction of scientific inquiry—and the ways those considerations have dangerously undermined the integrity of sciences impacting food, water, air, medicine, and the climate. In addition, he explores the relationship between scientific industries and the US military, discussing the innumerable financial and human scientific resources that have been diverted from other critical areas in order to further military aggrandizement and technological development. While the underlying problems may appear intractable, Conner compellingly argues that replacing the current science-for-profit system with a science-for-human-needs system is not an impossible utopian dream—and the first step to a better future is grappling with the mistakes of the past.

Virtual Reality, Augmented Reality, Artificial Intelligence, Internet of Things, Robotics, Industry 4.0 National Academies Press

Significant progress has been made in advanced packaging in recent years. Several new packaging techniques have been developed and new packaging materials have been introduced. This book provides a comprehensive overview of the recent developments in this industry, particularly in the areas of microelectronics, optoelectronics, digital health, and bio-medical applications. The book discusses established techniques, as well as emerging technologies, in order to provide readers with the most up-to-date developments in advanced packaging.

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