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KEY=SOCIAL - DOUGLAS PHILLIPS

THE SOCIAL SHAPING OF TECHNOLOGY

HOW THE REFRIGERATOR GOT ITS HUM

Milton Keynes ; Philadelphia : Open University Press

SHAPING TECHNOLOGY, GUIDING POLICY

CONCEPTS, SPACES, AND TOOLS

Edward Elgar Pub This text evolved from the European COST A4 Action on the Social Shaping of Technology 1991-9, a coordinated effort of national scientific and technical research conducted on a European level. In this collection of 13 essays, 15 international scholars explore several issues regarding social shaping technology (SST), including the development of SST as a research area; the main concepts and approaches emerging within the area of SST; the new explanatory frameworks, concepts and tools which have recently emerged; and how these findings contribute to policy and public and commercial intervention around technological innovation. For academics and researchers in science and technology studies, technology policy, and the management of technology, and for technology policymakers and practitioners. Annotation copyrighted by Book News, Inc., Portland, OR

THE SOCIAL SHAPING OF TECHNOLOGY

HOW THE REFRIGERATOR GOT ITS HUM

CULTURAL TECHNOLOGIES

THE SHAPING OF CULTURE IN MEDIA AND SOCIETY

Routledge The essays in this volume discuss both the culture of technology that we live in today, and culture as technology. Within the chapters of the book cultures of technology and cultural technologies are discussed, focussing on a variety of examples, from varied national contexts. The book brings together internationally recognised scholars from the social sciences and humanities, covering diverse themes such as intellectual property, server farms and search engines, cultural technologies and epistemology, virtual embassies, surveillance, peer-to-peer file-sharing, sound media and nostalgia and much more. It contains both historical and contemporary analyses of technological phenomena as well as epistemological discussions on the uses of technology.

THE SOCIAL SHAPING OF TECHNOLOGY

CREATIVE TECHNOLOGICAL CHANGE

THE SHAPING OF TECHNOLOGY AND ORGANISATIONS

Routledge Creative Technological Change draws upon a wide range of thinking from organisational theory, innovation studies and the sociology of technology. It explores the different ways in which these questions have been framed and answered, especially in relation to new 'virtual' technologies. The idea of metaphor is used to capture the differences between, and strengths and weaknesses of various ways of conceptualising the technology/organisation relationship. This approach offers the possibility of developing new ways of thinking about, viewing and ultimately responding creatively to the organisational challenges posed by technological change.

PARENTING FOR A DIGITAL FUTURE

HOW HOPES AND FEARS ABOUT TECHNOLOGY SHAPE CHILDREN'S LIVES

Oxford University Press, USA "In the decades it takes to bring up a child, parents face challenges that are both helped and hindered by the fact that they are living through a period of unprecedented digital innovation. Drawing on extensive research with diverse parents, this book reveals how digital technologies give personal and political parenting struggles a distinctive character, as parents determine how to forge new territory with little precedent, or support. The book reveals the pincer movement of parenting in late modernity. Parents are both more burdened with responsibilities and charged with respecting the agency of their child-leaving much to negotiate in today's "democratic" families. The book charts how parents now often enact authority and values through digital technologies-as "screen time," games, or social media become ways of both being together and setting boundaries. The authors show how digital technologies introduce both valued opportunities and new sources of risk. To light their way, parents comb through the hazy memories of their own childhoods and look toward varied imagined futures. This results in deeply diverse parenting in the present, as parents move between embracing, resisting, or balancing the role of technology in their own and their children's lives. This book moves beyond the panicky headlines to offer a deeply researched exploration of what it means to parent in a period of significant social and technological change. Drawing on qualitative and quantitative research in the United Kingdom, the book offers conclusions and insights relevant to parents, policymakers, educators, and researchers everywhere"--

SHAPING WOMEN'S WORK

GENDER, EMPLOYMENT AND INFORMATION TECHNOLOGY

Routledge A new book offering a broad overview of the debates about technologies and gender relations at work in a range of occupational areas. Innovative in its approach it deals with gender relations in terms of the ways in which they influence the design and development of technologies, and how gender relations are themselves shaped by technologies. The book will draw heavily on the theoretical perspective looking at the ways in which sexual divisions of labour and gender relations in the workplace profoundly affect the direction and pace of technological change, and tracks the development of certain technologies showing how, through their evolution, they embody these social relations.

VISION ASSESSMENT: SHAPING TECHNOLOGY IN 21ST CENTURY SOCIETY

TOWARDS A REPERTOIRE FOR TECHNOLOGY ASSESSMENT

Springer Science & Business Media One way to shape technology and its embedding in society in the 21st century is through the visions that guide their development, especially concerning the long-term societal perspective. A critical discussion and assessment of these visions is a prerequisite for influencing the course of development. Technology assessment, therefore, has to provide a methodological repertoire for assessing and constructing visions, taking into account the requirements for long-term orientation as well as the need for public legitimation. This volume draws upon insights from technology assessment, political sciences, epistemology, sociology and ethics. It is to contribute to the recent literature in on "shaping technology", taking into account the "co-evolution of technology and society". It connects to that technology assessment literature that emphasises TA's pro-active role and its contribution to political judgement.

TECHNOLOGIES & SOCIETY

THE SHAPING OF PEOPLE AND THINGS

The shaping of people and things; Theory; Marx's theory of technology; The ogburn generation; Recent theoretical approaches; Originators and managers of technology; Inventors and inventions; Invention as a social process; The role of designers in technology; Innovation: invetions and institutions; The sponsorship of technology; How sponsors evolve; Users of technology; The technology / user interface; Adapting and tinkering; Technological accidents; The distancing effects of technology; Monitoring technology: shaping the present and the future; social control of technologies; Technology assessment; Foresight and social intelligence; Index.

VALUE SENSITIVE DESIGN

SHAPING TECHNOLOGY WITH MORAL IMAGINATION

MIT Press Using our moral and technical imaginations to create responsible innovations: theory, method, and applications for value sensitive design. Implantable medical devices and human dignity. Private and secure access to information. Engineering projects that transform the Earth. Multigenerational information systems for international justice. How should designers, engineers, architects, policy makers, and others design such technology? Who should be involved and what values are implicated? In Value Sensitive Design, Batya Friedman and David Hendry describe how both moral and technical imagination can be brought to bear on the design of technology. With value sensitive design, under development for more than two decades, Friedman and Hendry bring together theory, methods, and applications for a design process that engages human values at every stage. After presenting the theoretical foundations of value sensitive design, which lead to a deep rethinking of technical design,

Friedman and Hendry explain seventeen methods, including stakeholder analysis, value scenarios, and multilifespan timelines. Following this, experts from ten application domains report on value sensitive design practice. Finally, Friedman and Hendry explore such open questions as the need for deeper investigation of indirect stakeholders and further method development. This definitive account of the state of the art in value sensitive design is an essential resource for designers and researchers working in academia and industry, students in design and computer science, and anyone working at the intersection of technology and society.

SHAPING FUTURE SCHOOLS WITH DIGITAL TECHNOLOGY

AN INTERNATIONAL HANDBOOK

Springer Nature This book presents an overview of education technology and its use in schools, with a primary emphasis on best practices of technology enhanced learning; how new technologies such as mobile, augmented and wearable technologies affect instructional design strategies; and the content curriculum development process. Providing insights into the future of education and the upcoming pedagogies that will be applied in schools, it helps educators and other stakeholders make innovations for the new generations of learners in the 21st century. The use of emerging technologies such as mobile and ubiquitous technologies, context-aware technology, augment-reality, and virtual reality is contributing to making education adaptive and smarter. With the ever-changing technologies, how to equip teachers with these digital skills and transform their teaching style is also important to ensure that school education is more individualised and customised for students. Offering a global perspective with integrated practical cases, this timely book is of interest to educators, teachers, and education policymakers. And although most of the authors are from the academia, it provides non-experts with a novel view of what future schools will be like with the help of technology.

ADVANCES IN HEALTHCARE TECHNOLOGY

SHAPING THE FUTURE OF MEDICAL CARE

Springer Science & Business Media Improving healthcare and staying healthy is one of the most discussed and important issues in our society. Technology has played and will play an important role in many aspects of the healthcare system, and it offers new and better ways to solve the key health problems of the new century. This book describes valued contributions of technology for improving hospital and home healthcare, and gives a perspective on how they will influence critical aspects of future medical care. It provides an overview and discussion of trends, presents the state-of-the-art of important research areas, and highlights recent breakthrough results in selected fields, giving an outlook on game-changing developments in the coming decades. The material is arranged in 6 parts and a total of 31 chapters. The healthcare areas addressed are: General advances and trends in healthcare technology, diagnostic imaging, integration of imaging and therapy, molecular medicine, medical information technology and personal healthcare.

SHAPING THE FUTURE OF THE FOURTH INDUSTRIAL REVOLUTION

A GUIDE TO BUILDING A BETTER WORLD

Penguin UK The Fourth Industrial Revolution is changing everything - from the way we relate to each other, to the work we do, the way our economies work, and what it means to be human. We cannot let the brave new world that technology is currently creating simply emerge. All of us need to help shape the future we want to live in. But what do we need to know and do to achieve this? In Shaping the Fourth Industrial Revolution, Klaus Schwab explores how people from all backgrounds and sectors can influence the way that technology transforms our world. Drawing on contributions by more than 200 of the world's leading technology, economic and sociological experts to present a practical guide for citizens, business leaders, social influencers and policy-makers this book outlines the most important dynamics of the technology revolution, highlights important stakeholders that are often overlooked in our discussion of the latest scientific breakthroughs, and explores 12 different technology areas central to the future of humanity. Emerging technologies are not predetermined forces out of our control, nor are they simple tools with known impacts and consequences. The exciting capabilities provided by artificial intelligence, distributed ledger systems and cryptocurrencies, advanced materials and biotechnologies are already transforming society. The actions we take today - and those we don't - will quickly become embedded in ever-more powerful technologies that surround us and will, very soon, become an integral part of us. By connecting the dots across a range of often-misunderstood technologies, and by exploring the practical steps that individuals, businesses and governments can take, Shaping the Fourth Industrial Revolution helps equip readers to shape a truly desirable future at a time of great uncertainty and change.

THE FOURTH INDUSTRIAL REVOLUTION

Penguin UK The founder and executive chairman of the World Economic Forum on how the impending technological revolution will change our lives We are on the brink of the Fourth Industrial Revolution. And this one will be unlike any other in human history. Characterized by new technologies fusing the physical, digital and biological worlds, the Fourth Industrial Revolution will impact all disciplines, economies and industries - and it will do so at an unprecedented rate. World Economic Forum data predicts that by 2025 we will see: commercial use of nanomaterials 200 times stronger than steel and a million times thinner than human hair; the first transplant of a 3D-printed liver; 10% of all cars on US roads being driverless; and much more besides. In The Fourth Industrial Revolution, Schwab outlines the key technologies driving this revolution, discusses the major impacts on governments, businesses, civil society and individuals, and offers bold ideas for what can be done to shape a better future for all.

SOCIO-TECHNICAL FUTURES SHAPING THE PRESENT

EMPIRICAL EXAMPLES AND ANALYTICAL CHALLENGES

Springer Nature The exploration of ways to conceptualize the shaping of the present by socio-technical futures is the aim of this volume. Therefore it brings together contributions from Science and Technology Studies and Technology Assessment, which focus all on the question how socio-technical images of the future shape present processes of innovation and transformation starting from empirical case studies and generalizing specific findings or by tackling conceptual questions from the outset. A white paper of 23 authors, which aims to sensitize researchers and practitioners completes the volume.

SHAPING OUR SELVES

ON TECHNOLOGY, FLOURISHING, AND A HABIT OF THINKING

Oxford University Press, USA For more than two decades, Erik Parens has participated in the debates about using technologies like surgery and pharmacology to shape our selves - debates that have at their core the question, What does it mean for human beings to flourish? Based on his experience, he has written a book to help people who are new to bioethics to understand what such debates actually entail. They entail more than the exchange of impartial reasons. They also entail efforts by critics of and enthusiasts about technologically shaping selves to justify their own ways of being in the world.

SOCIAL THEORY AFTER THE INTERNET

MEDIA, TECHNOLOGY, AND GLOBALIZATION

UCL Press The internet has fundamentally transformed society in the past 25 years, yet existing theories of mass or interpersonal communication do not work well in understanding a digital world. Nor has this understanding been helped by disciplinary specialization and a continual focus on the latest innovations. Ralph Schroeder takes a longer-term view, synthesizing perspectives and findings from various social science disciplines in four countries: the United States, Sweden, India and China. His comparison highlights, among other observations, that smartphones are in many respects more important than PC-based internet uses. Social Theory after the Internet focuses on everyday uses and effects of the internet, including information seeking and big data, and explains how the internet has gone beyond traditional media in, for example, enabling Donald Trump and Narendra Modi to come to power. Schroeder puts forward a sophisticated theory of the role of the internet, and how both technological and social forces shape its significance. He provides a sweeping and penetrating study, theoretically ambitious and at the same time always empirically grounded.The book will be of great interest to students and scholars of digital media and society, the internet and politics, and the social implications of big data.

MASTERING A NEW ROLE

SHAPING TECHNOLOGY POLICY FOR NATIONAL ECONOMIC PERFORMANCE

National Academies Press This book examines the changing character of commercial technology development and diffusion in an integrated global economy and its implications for U.S. public policies in support of technological innovation. The volume considers the history, current practice, and future prospects for national policies to encourage economic development through both direct and indirect government support of technological advance.

HANDBOOK OF NEW MEDIA

STUDENT EDITION

SAGE Thoroughly revised and updated, this Student Edition of the successful Handbook of New Media has been abridged to showcase the best of the hardback edition. This Handbook sets out boundaries of new media research and scholarship and provides a definitive statement of the current state-of-the-art of the field. Covering major problem areas of research, the Handbook of New Media includes an introductory essay by the editors and a concluding essay by Ron Rice. Each chapter, written by an internationally renowned scholar, provides a review of the most significant social research findings and insights.

SHAPING THE FUTURE OF EDUCATION, COMMUNICATION AND TECHNOLOGY

SELECTED PAPERS FROM THE HKAECT 2019 INTERNATIONAL CONFERENCE

Springer This book gathers selected papers from the Hong Kong Association for Educational Communications and Technology 2019 International Conference on the theme of "Shaping the Future of Education, Communication and Technology." It contributes to a scholarly discussion that looks beyond what future media and technology can offer for education, and reflects on best practices and lessons learned from applying new media and technology in a wide range of fields. Scholars from educational technology, communication, and higher education share their research work in various formats such as empirical research, best-practice case studies, literature reviews, etc. The topics of the papers are divided into four main areas, including curriculum, pedagogy and instructional design; teaching and learning experiences with technology; online learning and open education resources; and communication and media. The book's unique quality is its combination of perspectives and research work on communication, education and technology. Thus, it will encourage an interdisciplinary discourse and exchange concerning communication, new media, and educational practices.

THE EMOJI REVOLUTION

HOW TECHNOLOGY IS SHAPING THE FUTURE OF COMMUNICATION

Cambridge University Press Explores the evolution of emoji, how people use them, and what they tell us about the technology-enhanced state of modern society.

INFORMATION TECHNOLOGY AND CHANGES IN ORGANIZATIONAL WORK

Springer Many organisations are using an increased range of information technologies to support a variety of new organisational practices and organisational forms. The book aims to investigate the integration of information technologies into work places and their effect on work and work-life. Issues include changes in: the nature, quantity and quality of work; power relations; privacy; and aspects of organisational culture. The book also considers the social process of shifting from present organisational structures and practices to new ones.

SHAPING THE NETWORK SOCIETY

THE NEW ROLE OF CIVIL SOCIETY IN CYBERSPACE

MIT Press How computer professionals and communities can work together to shape sociotechnical systems that will meet society's challenges. Information and computer technologies are used every day by real people with real needs. The authors contributing to Shaping the Network Society describe how technology can be used effectively by communities, activists, and citizens to meet society's challenges. In their vision, computer professionals are concerned less with bits, bytes, and algorithms and more with productive partnerships that engage both researchers and community activists. These collaborations are producing important sociotechnical work that will affect the future of the network society. Traditionally, academic research on real-world users of technology has been neglected or even discouraged. The authors contributing to this book are working to fill this gap; their theoretical and practical discussions illustrate a new orientation—research that works with people in their natural social environments, uses common language rather than rarefied academic discourse, and takes a pragmatic perspective. The topics they consider are key to democratization and social change. They include human rights in the "global billboard society"; public computing in Toledo, Ohio; public digital culture in Amsterdam; "civil networking" in the former Yugoslavia; information technology and the international public sphere; "historical archaeologies" of community networks; "technobiographical" reflections on the future; libraries as information commons; and globalization and media democracy, as illustrated by Indymedia, a global collective of independent media organizations.

SHAPING THE UNIVERSITY OF THE FUTURE

USING TECHNOLOGY TO CATALYSE CHANGE IN UNIVERSITY LEARNING AND TEACHING

Springer This book focuses on developing an understanding of the complex interplay of forces acting on individual universities and higher education systems to enable leaders and practitioners to take purposeful and strategic action. It explores the challenging landscape of higher education and the pressures that are reshaping the university as a societal institution, describing the complex interplay of technological, sociological, political and economic forces driving change. The issues analysed are global in scope, reflecting the diversity of contexts, but also the common nature of the challenges facing institutions individually and collectively. The analysis draws on the lessons learnt and evidence from over fifty organisational case studies undertaken by the author over the past decade, exploring organisational change in higher education institutions in New Zealand, Australia, the United States and the United Kingdom, and on his engagement as president of the ACODE organisation with colleagues responsible for learning technological change in Australasia. The book helps institutions respond to technological change purposefully, in ways that build upon a clear understanding of the complex nature of the existing institution, its students and the organisational context.

USER BEHAVIOR AND TECHNOLOGY DEVELOPMENT

SHAPING SUSTAINABLE RELATIONS BETWEEN CONSUMERS AND TECHNOLOGIES

Springer Science & Business Media Environmental policy has long been determined by a dichotomy between technology and behavior. This book explores the relationships between technology and behavior from an interdisciplinary perspective. It is the first volume that aims to create a conceptual basis for analyzing interactions between technology and behavior, and to provide insights that are relevant to technology design and environmental policy.

THE SOCIAL CONTEXT OF TECHNOLOGICAL EXPERIENCES

THREE STUDIES FROM INDIA

Taylor & Francis This book demonstrates how technology and society shape one another and that there are intrinsic connections between technological experiences and social relationships. It employs an array of theoretical concepts and methodological tools to examine the technology–society nexus among three urban groups in India (traditional caste-based handloom weavers, subaltern Dalit communities, and informal female labour). It provides evidence of how innovations such as industrial technologies, communication technologies, and workplace technologies are not only about strides in science and engineering but also about politics and sociology on the ground. The book contributes to the growing research in innovation studies and technology policy that establishes how technological processes and outcomes are contingent on complex sociological variables and contexts. The author offers an inclusive, holistic, and interdisciplinary approach to understanding the field of innovation and technological change and development by involving various methodologies (network analysis, archival work, oral histories, focus group discussions, interviews). The book will serve as reference for researchers and scholars in social sciences, especially those interested in development studies, science and technology policy and innovation studies, information and communication technology (ICT) policy, public policy, management, social work and research methods, economics, sociology, social exclusion and subaltern studies, women's studies, and South Asian studies. It will also be useful to nongovernmental organisations, activists, and policymakers.

SHAPING TECHNOLOGY / BUILDING SOCIETY

STUDIES IN SOCIOTECHNICAL CHANGE

MIT Press Building on the influential book The Social Construction of Technological Systems, this volume carries forward the project of creating a theory of technological development and implementation that is strongly grounded in both sociology and history. Technology is everywhere, yet a theory of technology and its social dimension remains to be fully developed. Building on the influential book The Social Construction of Technological Systems, this volume carries forward the project of creating a theory of technological development and implementation that is strongly grounded in both sociology and history. The 12 essays address the central question of how technologies become stabilized, how they attain a final form and use that is generally accepted. The essays are tied together by a general introduction, part introductions, and a theoretical conclusion. The first part of the book examines and criticizes the idea that technologies have common life cycles; three case studies cover the history of a successful but never produced British jet fighter, the manipulation of patents by a French R&D company to gain a market foothold, and the managed development of high-intensity fluorescent lighting to serve the interests of electricity suppliers as well as the producing company. The second part looks at broader interactions shaping technology and its social context: the question of who was to define "steel," the determination of what constitutes radioactive waste and its proper disposal, and the social construction of motion pictures as exemplified by Thomas Edison's successful development of the medium and its commercial failure. The last part offers theoretical studies suggesting alternative approaches to sociotechnologies; two studies argue for a strong sociotechnology in which artifact and social context are viewed as a single seamless web, while the third looks at the ways in which a social program is a technology.

RADICALLY HUMAN

HOW NEW TECHNOLOGY IS TRANSFORMING BUSINESS AND SHAPING OUR FUTURE

Harvard Business Press Technology advances are making tech more . . . human. This changes everything you thought you knew about innovation and strategy. In their groundbreaking book, Human + Machine, Accenture technology leaders Paul R. Daugherty and H. James Wilson showed how leading organizations use the power of human-machine collaboration to transform their processes and their bottom lines. Now, as new AI powered technologies like the metaverse, natural language processing, and digital twins begin to rapidly impact both life and work, those companies and other pioneers across industries are tipping the balance even more strikingly toward the human side with technology-led strategy that is reshaping the very nature of innovation. In Radically Human, Daugherty and Wilson show this profound shift, fast-forwarded by the pandemic, toward more human—and more humane—technology. Artificial intelligence is becoming less artificial and more intelligent. Instead of data-hungry approaches to AI, innovators are pursuing data-efficient approaches that enable machines to learn as humans do. Instead of replacing workers with machines, they're unleashing human expertise to create human-centered AI. In place of lumbering legacy IT systems, they're building cloud-first IT architectures able to continuously adapt to a world of billions of connected devices. And they're pursuing strategies that will take their place alongside classic, winning business formulas like disruptive innovation. These against-the-grain approaches to the basic building blocks of business—Intelligence, Data, Expertise, Architecture, and Strategy (IDEAS)—are transforming competition. Industrial giants and startups alike are drawing on this radically human IDEAS framework to create new business models, optimize post-pandemic approaches to work and talent, rebuild trust with their stakeholders, and show the way toward a sustainable future. With compelling insights and fresh examples from a variety of industries, Radically Human will forever change the way you think about, practice, and win with innovation.

GOING DIGITAL: SHAPING POLICIES, IMPROVING LIVES

OECD Publishing This report identifies seven policy dimensions that allow governments – together with citizens, firms and stakeholders – to shape digital transformation to improve lives. It also highlights key opportunities, challenges and policies related to each dimension, offers new insights, evidence and analysis, and provides recommendations for better policies in the digital age.

TECHNOLOGICAL VISIONS

THE HOPES AND FEARS THAT SHAPE NEW TECHNOLOGIES

Temple University Press For as long as people have developed new technologies, there has been debate over the purposes, shape, and potential for their use. In this exciting collection, a range of contributors, including Sherry Turkle, Lynn Spigel, John Perry Barlow, Langdon Winner, David Nye, and Lord Asa Briggs, discuss the visions that have shaped "new" technologies and the cultural implications of technological adaptation. Focusing on issues such as the nature of prediction, community, citizenship, consumption, and the nation, as well as the metaphors that have shaped public debates about technology, the authors examine innovations past and present, from the telegraph and the portable television to the Internet, to better understand how our visions and imagination have shaped the meaning and use of technology. Author note: Marita Sturken is Associate Professor in the Annenberg School for Communication at the University of Southern California and the author of Tangled Memories: The Vietnam War, the AIDS Epidemic, and the Politics of Remembering and Practices of Looking: An Introduction to Visual Culture (with Lisa Cartwright). Douglas Thomas is Associate Professor in the Annenberg School for Communication at the University of Southern California. He is author of three books, most recently Hacker Culture. Sandra Ball-Rokeach is a Professor and Director of the Communication Technology and Community Program in the Annenberg School for Communication at the University of Southern California. She is author of several books, including Theories of Mass Communication (with M. L. De Fleur).

SEEING OURSELVES THROUGH TECHNOLOGY

HOW WE USE SELFIES, BLOGS AND WEARABLE DEVICES TO SEE AND SHAPE OURSELVES

Springer This book is open access under a CC BY license. Selfies, blogs and lifelogging devices help us understand ourselves, building on long histories of written, visual and quantitative modes of self-representations. This book uses examples to explore the balance between using technology to see ourselves and allowing our machines to tell us who we are.

EXAMINING THE ROLES OF IT AND SOCIAL MEDIA IN DEMOCRATIC DEVELOPMENT AND SOCIAL CHANGE

IGI Global Social media has emerged as a powerful tool that reaches a wide audience with minimum time and effort. It has a diverse role in society and human life and can boost the visibility of information that allows citizens the ability to play a vital role in creating and fostering social change. This practice can have both positive and negative consequences on society. Examining the Roles of IT and Social Media in Democratic Development and Social Change is a collection of innovative research on the methods and applications of social media within community development and democracy. While highlighting topics including information capitalism, ethical issues, and e-governance, this book is ideally designed for social workers, politicians, public administrators, sociologists, journalists, policymakers, government administrators, academicians, researchers, and students seeking current research on social advancement and change through social media and technology.

SHAPING FUTURE 6G NETWORKS

NEEDS, IMPACTS AND TECHNOLOGIES

John Wiley & Sons Discover the societal and technology drivers contributing to build the next generation of wireless telecommunication networks Shaping Future 6G Networks: Needs, Impacts, and Technologies is a holistic snapshot on the evolution of 5G technologies towards 6G. With contributions from international key players in industry and academia, the book presents the hype versus the realistic capabilities of 6G technologies, and delivers cutting-edge business and technological insights into the future wireless telecommunications landscape. You'll learn about: Forthcoming demand for post 5G networks, including new requirements coming from small and large businesses, manufacturing, logistics, and automotive industry Societal implications of 6G, including digital sustainability, strategies for increasing energy efficiency, as well future open networking ecosystems Impacts of integrating non-terrestrial networks to build the 6G architecture Opportunities for emerging THz radio access technologies in future integrated communications, positioning, and sensing capabilities in 6G Design of highly modular and distributed 6G core networks driven by the ongoing RAN-Core integration and the benefits of AI/ML-based control and management Disruptive architectural considerations influenced by the Post-Shannon Theory The insights in Shaping Future 6G Networks will greatly benefit IT engineers and managers focused on the future of networking, as well as undergraduate and graduate engineering students focusing on the design, implementation, and management of mobile networks and applications.

SHAPING SCIENCE AND TECHNOLOGY POLICY

THE NEXT GENERATION OF RESEARCH

Univ of Wisconsin Press With scientific progress occurring at a breathtaking pace, science and technology policy has never been more important than it is today. Yet there is a very real lack of public discourse about policy-making, and government involvement in science remains shrouded in both mystery and misunderstanding. Who is making choices about technology policy, and who stands to win or lose from these choices? What criteria are being used to make decisions and why? Does government involvement help or hinder scientific research? Shaping Science and Technology Policy brings together an exciting and diverse group of emerging scholars, both practitioners and academic experts, to investigate current issues in science and technology policy. Essays explore such topics as globalization, the shifting boundary between public and private, informed consent in human participation in scientific research, intellectual property and university science, and the distribution of the costs and benefits of research. Contributors: Charlotte Augst, Grant Black, Mark Brown, Kevin Elliott, Patrick Feng, Pamela M. Franklin, Carolyn Gideon, Tené N. Hamilton, Brian A. Jackson, Shobita Parthasarathy, Jason W. Patton, A. Abigail Payne, Bhaven Sampat, Christian Sandvig, Sheryl Winston Smith, Michael Whong-Barr

SOCIAL SHAPING OF DIGITAL PUBLISHING: EXPLORING THE INTERPLAY BETWEEN CULTURE AND TECHNOLOGY

PROCEEDINGS OF THE 16TH INTERNATIONAL CONFERENCE ON ELECTRONIC PUBLISHING

IOS Press The processes and forms of electronic publishing have been changing since the advent of the Web. In recent years, the open access movement has been a major driver of scholarly communication, and change is also evident in other fields such as e-government and e-learning. Whilst many changes are driven by technological advances, an altered social reality is also pushing the boundaries of digital publishing. With 23 articles and 10 posters, Elpub 2012 focuses on the social shaping of digital publishing and explores the interplay between culture and technology. This book contains the proceedings of the conference, consisting of 11 accepted full articles and 12 articles accepted as extended abstracts. The articles are presented in groups, and cover the topics: digital scholarship and publishing; special archives; libraries and repositories; digital texts and readings; and future solutions and innovations. Offering an overview of the current situation and exploring the trends of the future, this book will be of interest to all those whose work involves digital publishing.

THE CONSEQUENCES OF MODERNITY

John Wiley & Sons In this major theoretical statement, the author offers a new and provocative interpretation of the institutional transformations associated with modernity. We do not as yet, he argues, live in a post-modern world. Rather the distinctive characteristics of our major social institutions in the closing period of the twentieth century express the emergence of a period of 'high modernity,' in which prior trends are radicalised rather than undermined. A post-modern social universe may eventually come into being, but this as yet lies 'on the other side' of the forms of social and cultural organization which currently dominate world history. In developing an account of the nature of modernity, Giddens concentrates upon analyzing the intersections between trust and risk, and security and danger, in the modern world. Both the trust mechanisms associated with modernity and the distinctive 'risk profile' it produces, he argues, are distinctively different from those characteristic of pre-modern social orders. This book build upon the author's previous theoretical writings, and will be of fundamental interest to anyone concerned with Gidden's overall project. However, the work covers issues which the author has not previously analyzed and extends the scope of his work into areas of pressing practical concern. This book will be essential reading for second year undergraduates and above in sociology, politics, philosophy, and cultural studies.

SHAPING SMART FOR BETTER CITIES

RETHINKING AND SHAPING RELATIONSHIPS BETWEEN URBAN SPACE AND DIGITAL TECHNOLOGIES

Academic Press Shaping Smart for Better Cities powerfully demonstrates the range of theoretical and practical challenges, opportunities and success factors involved in successfully deploying digital technologies in cities, focusing on the importance of recognizing local context and multi-layered urban relationships in designing successful urban interventions. The first section, 'Rethinking Smart (in) Places' interrogates the smart city from a theoretical vantage point. The second part, 'Shaping Smart Places' examines various case studies critically. Hence the volume offers an intellectual resource that expands on the current literature, but also provides a pedagogical resource to universities as well as a reflective opportunity for practitioners. The cases allow for an examination of the practical implications of smart interventions in space, whilst the theoretical reflections enable expansion of the literature. Students are encouraged to learn from case studies and apply that learning in design. Academics will gain from the learning embedded in the documentation of the case studies in different geographic contexts, while practitioners can apply their learning to the conceptualisation of new forms of technology use. Demonstrates how to adapt smart urban interventions for hyper-local context in geographic parameters, spatial relationships, and socio-political characteristics Provides a problem-solving approach based on specific smart place examples, applicable to real-life urban management Offers insights from numerous case studies of smart cities interventions in real civic spaces

THE SOCIAL SHAPING OF TECHNOLOGY

HOW THE REFRIGERATOR GOT ITS HUM

THE SHAPING OF SOCIO-ECONOMIC SYSTEMS (RLE SOCIAL THEORY)

THE APPLICATION OF THE THEORY OF ACTOR-SYSTEM DYNAMICS TO CONFLICT, SOCIAL POWER, AND INSTITUTIONAL INNOVATION IN ECONOMIC LIFE

Routledge Actor-systems dynamics is an innovative, multidisciplinary methodology for investigating and analyzing social struggles over economic resources and the related interplay between economic and socio-political institutions and processes. The authors, sociologists and economists, offer a systemic perspective on contemporary socio-economic issues such as economic crisis, unemployment, inflation, economic democracy and development; in their analyses, they identify several of the key factors that drive people to interact, to initiate change and transformation as well as to resist such change. Major underlying themes in the book are: Conflict over the distribution of economic resources and economic policies and institutions; the structural bases of economic inequality and conflict; the shaping and reshaping of socio-economic institutions, and the contradictions, conflicts and instabilities evoked by such developments; the failure of orthodox economic theories, including Keynesianism, in the face of recurrent economic crises and instabilities; the development and application of an open, dynamic actor-oriented systems theory – grounded in the social sciences – addressing complex socio-economic phenomena in ways diverging substantially from conventional economics. All in all, the papers collected here deal, on the one hand, with social power, conflict, and struggle concerning economic resources and institutions and, on the other hand, the structural and other factors which drive powering initiatives, conflict, and social innovation and transformation. The book is addressed to a broad spectrum of social and managerial scientists concerned with socio-economic issues, institutions, and development.