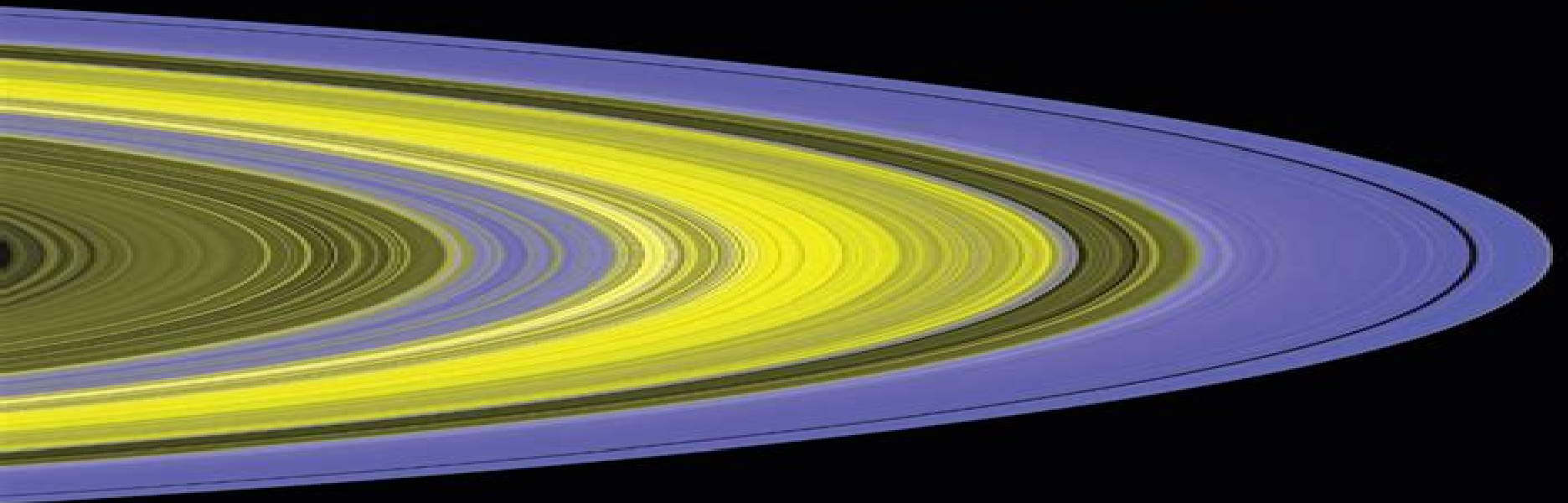# SHAPING SCIENCE

Organizations, Decisions, and Culture on NASA's Teams

JANET VERTESI

[Social Shaping Of Science](#)

Sue Vilhauer Rosser

Social Shaping Of Science:

   The Social Shaping of Technology Donald A. MacKenzie,Judy Wajcman,1999 Technological change is often seen as something that follows its own logic something we may welcome or about which we may protest but which we are unable to alter fundamentally This reader challenges that assumption and its distinguished contributors demonstrate that technology is affected at a fundamental level by the social context in which it develops General arguments are introduced about the relation of technology to society and different types of technology are examined the technology of production domestic and reproductive technology and military technology The book draws on authors from Karl Marx to Cynthia Cockburn to show that production technology is shaped by social relations in the workplace It moves on to the technologies of the household and biological reproduction which are topics that male dominated social science has tended to ignore or trivialise though these are actually of crucial significance where powerful shaping factors are at work normally unnoticed The final section asks what shapes the most frightening technology of all the technology of weaponry especially nuclear weapons The editors argue that social scientists have devoted disproportionate attention to the effects of technology on society and tended to ignore the more fundamental question of what shapes technology in the first place They have drawn both on established work in the history and sociology of technology and on newer feminist perspectives to show just how important and fruitful it is to try to answer that deeper question The first edition of this reader published in 1985 had a considerable influence on thinking about the relationship between technology andsociety This second edition has been thoroughly revised and expanded to take into account new research and the emergence of new theoretical perspectives   **The social shaping of science** ,1971   **The Social Shaping of Technology** David Edge,1988   *Handbook of Emergent Methods* Sharlene Nagy Hesse-Biber,Patricia Leavy,2008-02-22 Social researchers increasingly find themselves looking beyond conventional methods to address complex research questions The Handbook of Emergent Methods is the first book to comprehensively examine emergent qualitative and quantitative theories and methods across the social and behavioral sciences Providing scholars and students with a way to retool their research choices the volume presents cutting edge approaches to data collection analysis and representation Leading researchers describe alternative uses of traditional quantitative and qualitative tools innovative hybrid or mixed methods and new techniques facilitated by technological advances Consistently formatted chapters explore the strengths and limitations of each method for studying different types of research questions and offer practical in depth examples   New Infrastructures for Knowledge Production Christine Hine,2006-01-01 This book is offers an overview of the practices and the technologies that are shaping the knowledge production of the future Provided by publisher   Anarcho-primitivism ,   **Molecular Politics** Susan Wright,1994-10-17 The promise of genetic engineering in the early 1970s to profoundly reshape the living world activated a variety of social interests in its future promotion and control With public safety gene patents and the future of genetic research at stake a wide range of interest

groups competed for control over this powerful new technology In this comparative study of the development of regulatory policy for genetic engineering in the United States and the United Kingdom Susan Wright analyzes government responses to the struggles among corporations scientists universities trade unions and public interest groups over regulating this new field Drawing on archival materials government records and interviews with industry executives politicians scientists trade unionists and others on both sides of the Atlantic Molecular Politics provides a comprehensive account of a crucial set of policy decisions and explores their implications for the political economy of science By combining methods from political science and the history of science Wright advances a provocative interpretation of the evolution of genetic engineering policy and makes a major contribution to science and public policy studies   The SAGE Companion to the City Tim Hall,Phil Hubbard,John Rennie Short,2008-05-21 This book pulls together an exceptional range of literature in addressing the complexity of contemporary patterns and processes of urbanization It offers a rich array of concepts and theories and is studded with fascinating examples that illustrate the changing nature of cities and urban life Paul Knox Virginia Tech University The SAGE Companion to the City is a tour de force of contemporary urban studies At once a stocktake showcase and springboard for scholarly approaches to cities and city life the editors have assembled a cohesive and convincing set of lucid insightful and critical essays of great quality Eschewing grand theory and deadening encyclopediasm the contributors refresh both longstanding concerns and explore new themes in ways both brilliantly accessible to newcomers and satisfying to the cognoscenti Robert Freestone University of New South Wales Organized in four sections The SAGE Companion to the City provides a systematic A Z to understanding the city that explains the interrelations between society culture and economy Histories explores power religion science and technology modernity and the landscape of the city Economies and Inequalities explores work and leisure globalisation innovation and the role of the state Communities explores migration and settlement segregation and division civility housing and homelessness Order and Disorder explores politics and policy planning and conflict law and order surveillance and terror An accessible guide to all areas of urban studies the text offers both a contemporary cutting edge reflection and measured historical and geographical reflection on urban studies It will be essential reading for students of any discipline interested in the city as an object of study   World Wide Research William H. Dutton,Paul W. Jeffreys,2010 Advances in information and communication technology are transforming the way scholarly research is conducted across all disciplines The use of increasingly powerful and versatile computer based and networked systems promises to change research activity as profoundly as the mobile phone the Internet and email have changed everyday life This book offers a comprehensive and accessible view of the use of these new approaches called e Research and their ethical legal and institutional implications The contributors leading scholars from a range of disciplines focus on how e Research is reshaping not only how research is done but also and more important its outcomes By anchoring their discussion in specific examples and case studies they identify and analyze a promising set of practical developments and results

associated with e Research innovations The contributors who include Geoffrey Bowker Christine Borgman Paul Edwards Tim Berners Lee and Hal Abelson explain why and how e Research activity can reconfigure access to networks of information expertise and experience changing what researchers observe with whom they collaborate how they share information what methods they use to report their findings and what knowledge is required to do this They discuss both the means of e Research new research centered computational networks and its purpose to improve the quality of world wide research William H Dutton is Director of the Oxford Internet Institute Professor of Internet Studies and Professorial Fellow of Balliol College at the University of Oxford Paul W Jeffreys formerly Director of the Oxford e Research Centre is Director of IT at the University of Oxford Professor of Computing and Professorial Fellow of Keble College at the University of Oxford

Theorizing Culture Barbara Adam,Stuart Allan,2006-04-07 This highly original and timely volume engages scholars from the breadth of social science and the humanities to provide a critical perspective on cultural forms practices and identities It looks beyond the postmodern debate to reinstate the critical dimension in cultural analysis providing a student friendly introduction to key contemporary issues such as the body AIDS race the environment and virtual reality Theorizing Culture is essential reading for undergraduate courses in cultural and media studies and sociology and will have considerable appeal for students and scholars of critical theory gender studies and the history of ideas **Theorizing Culture: Critique** Barbara Adam,Stuart Allan,2015-01-28 First Published in 1995 Routledge is an imprint of Taylor Francis an informa company

Encyclopedia of Library and Information Sciences John D. McDonald,Michael Levine-Clark,2017-03-15 The Encyclopedia of Library and Information Sciences comprising of seven volumes now in its fourth edition compiles the contributions of major researchers and practitioners and explores the cultural institutions of more than 30 countries This major reference presents over 550 entries extensively reviewed for accuracy in seven print volumes or online The new fourth edition which includes 55 new entires and 60 revised entries continues to reflect the growing convergence among the disciplines that influence information and the cultural record with coverage of the latest topics as well as classic articles of historical and theoretical importance Science in Society Matthew David,2017-03-16 Science Technoscience has moved to centre stage in debates over change power and justice in twenty first century societies This text provides a general framework for understanding combining and applying the rich range of approaches that exist within sociology about science in particular the role and limitations of science in generating knowledge and the relationship between scientific knowledge and social progress Drawing on case studies from the past up until today s new genetics this is a clear even handed and comprehensive introduction to the field Networks of Design Jonathan Glynne,Fiona Hackney,Minton, Viv,2010-06 Networks of Design maps a new methodological territory in design studies conceived as a field of interdisciplinary inquiry and practice informed by a range of responses to actor network theory It brings together a rich body of current work by researchers in the social sciences technology material culture cultural geography information technology and systems design and design theory and

history This collection will be invaluable to students and researchers in many areas of design studies and to design practitioners receptive to new and challenging notions of what constitutes the design process Over ninety essays are thematically organised to address five aspects of the expanded notions of mediation agency and collaboration posited by network theory Ideas Things Technology Texts and People The collection also includes an important new essay on rethinking the concept of design by Bruno Latour one of the most influential figures in the philosophy and sociology of science and technology and a pioneer of actor network theory and essays deriving from forum discussions involving designers and designer makers responsive to actor network theory Rather than an anthology of previously published essays Networks of Design presents work in progress on design theory and its applications It is the outcome of a live and vigorous debate on the possibilities and actualities offered by actor network led conceptualisations of the relationships and processes constituting design All the essays many collaborative derive from papers presented at the international conference of the Design History Society held at University College Falmouth UK in the Autumn of 2008 **Big Data Science and Analytics for Smart Sustainable Urbanism** Simon Elias Bibri,2019-05-30 We are living at the dawn of what has been termed the fourth paradigm of science a scientific revolution that is marked by both the emergence of big data science and analytics and by the increasing adoption of the underlying technologies in scientific and scholarly research practices Everything about science development or knowledge production is fundamentally changing thanks to the ever increasing deluge of data This is the primary fuel of the new age which powerful computational processes or analytics algorithms are using to generate valuable knowledge for enhanced decision making and deep insights pertaining to a wide variety of practical uses and applications This book addresses the complex interplay of the scientific technological and social dimensions of the city and what it entails in terms of the systemic implications for smart sustainable urbanism In concrete terms it explores the interdisciplinary and transdisciplinary field of smart sustainable urbanism and the unprecedented paradigmatic shifts and practical advances it is undergoing in light of big data science and analytics This new era of science and technology embodies an unprecedentedly transformative and constitutive power manifested not only in the form of revolutionizing science and transforming knowledge but also in advancing social practices producing new discourses catalyzing major shifts and fostering societal transitions Of particular relevance it is instigating a massive change in the way both smart cities and sustainable cities are studied and understood and in how they are planned designed operated managed and governed in the face of urbanization This relates to what has been dubbed data driven smart sustainable urbanism an emerging approach based on a computational understanding of city systems and processes that reduces urban life to logical and algorithmic rules and procedures while also harnessing urban big data to provide a more holisticand integrated view or synoptic intelligence of the city This is increasingly being directed towards improving advancing and maintaining the contribution of both sustainable cities and smart cities to the goals of sustainable development This timely and multifaceted book is aimed at a broad readership As

such it will appeal to urban scientists data scientists urbanists planners engineers designers policymakers philosophers of science and futurists as well as all readers interested in an overview of the pivotal role of big data science and analytics in advancing every academic discipline and social practice concerned with data intensive science and its application particularly in relation to sustainability   The Oxford Handbook of Management Information Systems Robert D Galliers,Wendy Currie,2011-07-28 Management Information Systems MIS play a crucial role in an organization s operations accounting decision making project management and competitive advantage The Oxford Handbook of Management Information Systems takes a critical and interdisciplinary view of the increasing complexity of these systems within organizations and the strategic managerial and ethical issues associated with the effective use of these technologies The book is organized into four parts Part I Background Part II Theoretical and Methodological Perspectives in MIS Part III Rethinking Theory in MIS Practice Part IV Rethinking MIS Practice in a Broader Context The Handbook provides expansive coverage of the discipline and a methodological and philosophical framework for discussion of key topics before exploring the issues associated with MIS in practice and considering the broader context and future agenda of research in light of such concerns as sustainability ethics and globalization Bringing together international scholars to focus on the theory and practice of MIS this handbook provides a comprehensive resource for academics and research students in the fields of MIS IS Organizational Behaviour and Management in general   **Breaking Into the Lab** Sue Vilhauer Rosser,2012 Cover Contents Acknowledgments 1 Introduction Why Women in Science Are Still Controversial after Thirty Years 2 Starting Careers Plus a Change Plus C est la Meme Chose 3 Positive Interventions from Mentors and Mentoring Networks 4 New Filters for Senior Women Scientists 5 Advancing Women Scientists to Senior Leadership Positions 6 The Gender Gap in Patents 7 The Impact that Women Have Made on Science and Technology 8 Conclusion Women in Science Are Critical for Society Appendix A Grants to Support Women Scientists Cited in This Book References Index A B C D E F G H I J K L M N O P Q R S T U V W Z About the Author   **Readings in the Philosophy of Technology** David M. Kaplan,2009 Collects the important works of both the forerunners and contemporary theorists of philosophy of technology addressing a wide range of topics on technology as it relates to ethics politics human nature computers science food and the environment   *New Media* Leah A. Lievrouw,Sonia M. Livingstone,2009   E-Research Nicholas W. Jankowski,2010-03-17 This volume which features renowned scholars from across the globe provides critical reflection on the overall emergence of e research particularly on its adoption and adaptation by the social sciences and humanities

Social Shaping Of Science Book Review: Unveiling the Power of Words

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