

FUNDING A REVOLUTION

GOVERNMENT SUPPORT FOR
COMPUTING RESEARCH

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Funding A Revolution Government Support For Computing Research

William Lazonick, Jang-Sup Shin



Funding A Revolution Government Support For Computing Research:

Funding a Revolution National Research Council, Computer Science and Telecommunications Board, Committee on Innovations in Computing and Communications: Lessons from History, 1999-01-11 The past 50 years have witnessed a revolution in computing and related communications technologies The contributions of industry and university researchers to this revolution are manifest less widely recognized is the major role the federal government played in launching the computing revolution and sustaining its momentum Funding a Revolution examines the history of computing since World War II to elucidate the federal government's role in funding computing research supporting the education of computer scientists and engineers and equipping university research labs It reviews the economic rationale for government support of research characterizes federal support for computing research and summarizes key historical advances in which government sponsored research played an important role Funding a Revolution contains a series of case studies in relational databases the Internet theoretical computer science artificial intelligence and virtual reality that demonstrate the complex interactions among government universities and industry that have driven the field It offers a series of lessons that identify factors contributing to the success of the nation's computing enterprise and the government's role within it **Funding a**

Revolution Committee on Innovations in Computing and Communications: Lessons from History, Computer Science and Telecommunications Board, National Research Council, 1999-01-08 The past 50 years have witnessed a revolution in computing and related communications technologies The contributions of industry and university researchers to this revolution are manifest less widely recognized is the major role the federal government played in launching the computing revolution and sustaining its momentum Funding a Revolution examines the history of computing since World War II to elucidate the federal government's role in funding computing research supporting the education of computer scientists and engineers and equipping university research labs It reviews the economic rationale for government support of research characterizes federal support for computing research and summarizes key historical advances in which government sponsored research played an important role Funding a Revolution contains a series of case studies in relational databases the Internet theoretical computer science artificial intelligence and virtual reality that demonstrate the complex interactions among government universities and industry that have driven the field It offers a series of lessons that identify factors contributing to the success of the nation's computing enterprise and the government's role within it The DARPA Model

for Transformative Technologies: Perspectives on the U.S. Defense Advanced Research Projects Agency William Boone Bonvillian, Richard Van Atta, Patrick Windham, 2020-01-09 The authors have done a masterful job of charting the important story of DARPA one of the key catalysts of technological innovation in US recent history By plotting the development achievements and structure of the leading world agency of this kind this book stimulates new thinking in the field of technological innovation with bearing on how to respond to climate change pandemics cyber security and other global

problems of our time The DARPA Model provides a useful guide for governmental agency and policy leaders and for anybody interested in the role of governments in technological innovation Dr Kent Hughes Woodrow Wilson International Center for Scholars This volume contains a remarkable collection of extremely insightful articles on the world s most successful advanced technology agency Drafted by the leading US experts on DARPA it provides a variety of perspectives that in turn benefit from being presented together in a comprehensive volume It reviews DARPA s unique role in the U S innovation system as well as the challenges DARPA and its clones face today As the American model is being considered for adoption by a number of countries worldwide this book makes a welcome and timely contribution to the policy dialogue on the role played by governments in stimulating technological innovation Prof Charles Wessner Georgetown University The U S Defense Advanced Research Projects Agency DARPA has played a remarkable role in the creation new transformative technologies revolutionizing defense with drones and precision guided munitions and transforming civilian life with portable GPS receivers voice recognition software self driving cars unmanned aerial vehicles and most famously the ARPANET and its successor the Internet Other parts of the U S Government and some foreign governments have tried to apply the DARPA model to help develop valuable new technologies But how and why has DARPA succeeded Which features of its operation and environment contribute to this success And what lessons does its experience offer for other U S agencies and other governments that want to develop and demonstrate their own transformative technologies This book is a remarkable collection of leading academic research on DARPA from a wide range of perspectives combining to chart an important story from the Agency s founding in the wake of Sputnik to the current attempts to adapt it to use by other federal agencies Informative and insightful this guide is essential reading for political and policy leaders as well as researchers and students interested in understanding the success of this agency and the lessons it offers to others

Computing Research for Sustainability National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Computing Research for Environmental and Societal Sustainability, 2012-07-06 A broad and growing literature describes the deep and multidisciplinary nature of the sustainability challenges faced by the United States and the world Despite the profound technical challenges involved sustainability is not at its root a technical problem nor will merely technical solutions be sufficient Instead deep economic political and cultural adjustments will ultimately be required along with a major long term commitment in each sphere to deploy the requisite technical solutions at scale Nevertheless technological advances and enablers have a clear role in supporting such change and information technology IT is a natural bridge between technical and social solutions because it can offer improved communication and transparency for fostering the necessary economic political and cultural adjustments Moreover IT is at the heart of nearly every large scale socioeconomic system including systems for finance manufacturing and the generation and distribution of energy and so sustainability focused changes in those systems are inextricably linked with advances in IT The focus of

Computing Research for Sustainability is greening through IT the application of computing to promote sustainability broadly. The aim of this report is twofold to shine a spotlight on areas where IT innovation and computer science CS research can help and to urge the computing research community to bring its approaches and methodologies to bear on these pressing global challenges. Computing Research for Sustainability focuses on addressing medium and long term challenges in a way that would have significant measurable impact. The findings and recommended principles of the Committee on Computing Research for Environmental and Societal Sustainability concern four areas: 1 the relevance of IT and CS to sustainability, 2 the value of the CS approach to problem solving particularly as it pertains to sustainability challenges, 3 key CS research areas, and 4 strategy and pragmatic approaches for CS research on sustainability. *Handbook of Research on Global Information Technology Management in the Digital Economy* Raisinghani, Mahesh S., 2008-01-31. Includes the most important issues, concepts, trends, and technologies in the field of global information technology management, covering topics such as the technical platform for global IS applications, information systems projects spanning cultures, managing information technology in corporations, and global information technology systems and socioeconomic development in developing countries. **Computing and the National Science Foundation, 1950-2016** Peter A. Freeman, W. Richards Adrion, William Aspray, 2019-11-21. This organizational history relates the role of the National Science Foundation (NSF) in the development of modern computing. Drawing upon new and existing oral histories, extensive use of NSF documents, and the experience of two of the authors as senior managers, this book describes how NSF's programmatic activities originated and evolved to become the primary source of funding for fundamental research in computing and information technologies. The book traces how NSF's support has provided facilities and education for computing usage by all scientific disciplines, aided in institution and professional community building, supported fundamental research in computer science and allied disciplines, and led the efforts to broaden participation in computing by all segments of society. Today, the research and infrastructure facilitated by NSF computing programs are significant economic drivers of American society and industry. For example, NSF supported work that led to the first widely used web browser, Netscape, sponsored the creation of algorithms at the core of the Google search engine, facilitated the growth of the public Internet, and funded research on the scientific basis for countless other applications and technologies. NSF has advanced the development of human capital and ideas for future advances in computing and its applications. This account is the first comprehensive coverage of NSF's role in the extraordinary growth and expansion of modern computing and its use. It will appeal to historians of computing, policy makers, and leaders in government and academia, and individuals interested in the history and development of computing and the NSF. **FastLane** Thomas J. Misa, Jeffrey R. Yost, 2016-01-15. The unique history and development of FastLane, the central nervous system of the National Science Foundation. Since 2000, the National Science Foundation has depended upon its pioneering FastLane e-government system to manage grant applications, peer reviews, and reporting. In this behind-the-scenes

account Thomas J Misa and Jeffrey R Yost examine how powerful forces of science and computing came together to create this influential grant management system assessing its impact on cutting edge scientific research Why did the NSF create FastLane and how did it anticipate the development of web based e commerce What technical challenges did the glitch prone early system present Did the switch to electronic grant proposals disadvantage universities with fewer resources And how did the scientific community help shape FastLane Foregrounding the experience of computer users the book draws on hundreds of interviews with scientific researchers sponsored project administrators NSF staff and software designers developers and managers **Science & Engineering Indicators** ,2000 OECD Science, Technology and Industry Outlook 2002 OECD,2002-10-04 In addition to reviewing recent trends this report identifies significant changes in science technology and industry policies in the OECD countries *Fair Weather* National Research Council,Division on Earth and Life Studies,Computer Science and Telecommunications Board,Board on Atmospheric Sciences and Climate,Board on Earth Sciences and Resources,Committee on Geophysical and Environmental Data,Committee on Partnerships in Weather and Climate Services,2003-05-14 Decades of evolving U S policy have led to three sectors providing weather services NOAA primarily the National Weather Service NWS academic institutions and private companies This three sector system has produced a scope and diversity of weather services in the United States second to none However rapid scientific and technological change is changing the capabilities of the sectors and creating occasional friction *Fair Weather* Effective Partnerships in Weather and Climate Services examines the roles of the three sectors in providing weather and climate services the barriers to interaction among the sectors and the impact of scientific and technological advances on the weather enterprise Readers from all three sectors will be interested in the analysis and recommendations provided in *Fair Weather*

Governing Digital Public Infrastructure Stergios Aidinlis,2025-10-15 This book explores how digital public infrastructures DPI should be governed in the public interest harnessing their potential to drive innovation inclusion and societal progress in the age of supercomputers and generative AI DPI from hardware and software to data and networks are becoming increasingly critical to our economy society and daily lives As the AI revolution unfolds the governance of these infrastructures is coming under scrutiny with questions arising about how to balance innovation access and the public interest Examining the potential for DPI to empower citizen entrepreneurs researchers small businesses and the public sector the book analyses the legal frameworks governing DPI access Covering key areas such as AI law data protection IP law and competition law the book emphasizes the need for inclusive and participatory governance models that prioritize transparency accountability and the public good It offers actionable recommendations for policymakers businesses civil society and researchers to collaborate in shaping the future of DPI governance The book will be of interest to researchers in the field of digital law digital governance and public law **Predatory Value Extraction** William Lazonick,Jang-Sup Shin,2019-12-04 *Predatory Value Extraction* explains how an ideology of corporate resource allocation known as maximizing

shareholder value MSV that emerged in the 1980s came to dominate strategic thinking in business schools and corporate boardrooms in the United States Undermining the social foundations of sustainable prosperity it resulted in employment instability income inequity and slow productivity growth In explaining what happened to sustainable prosperity William Lazonick and Jang Sup Shin focus on the growing imbalance between value creation and value extraction in the U S economy and the corporate governance institutions that determine this balance in the nation s major business corporations The imbalance has become so extreme that predatory value extraction is now a central economic activity to the point at which the U S economy as a whole can be aptly described as a value extracting economy Balancing the contributions of economic actors to value creation with their power to extract value provides the foundation for stable and equitable economic growth When certain economic actors are able to assert their power to extract far more value than they contribute to the value creation process an imbalance occurs which when extreme leads to dire economic political and social consequences This book not only explores these consequences but also sets out an agenda for restoring sustainable prosperity *Capitalizing on New Needs and New Opportunities* National Research Council,Policy and Global Affairs,Board on Science, Technology, and Economic Policy,2001-02-11 This report addresses a topic of recognized policy concern To capture the benefits of substantial U S investments in biomedical R D parallel investments in a wide range of seemingly unrelated disciplines are also required This report summarizes a major conference that reviewed our nation s R D support for biotechnology and information technologies The volume includes newly commissioned research and makes recommendations and findings concerning the important relationship between information technologies and biotechnology It emphasizes the fall off in R D investments needed to sustain the growth of the U S economy and to capitalize on the growing investment in biomedicine It also encourages greater support for inter disciplinary training to support new areas such as bioinformatics and urges more emphasis on and support for multi disciplinary research centers **Selling Out a Superpower** Ronald R.

Pollina,2011-03-08 In 1968 there were sixty two lobbyists in Washington today there are thirty four thousand outnumbering members of Congress and their staffers two to one By 2008 these lobbyists were spending approximately 8 2 million for influence per day Few if any of these lobbyists represent the majority of Americans in the middle class So it s not surprising given these statistics that real median household income in America has stagnated for over a decade This hard hitting book documents that a combination of special interest groups and their army of money peddling lobbyists along with government mismanagement of business and the economy by both parties have betrayed the American middle and lower classes for the last twenty years The result is a host of misguided laws and policies that have driven jobs and whole industries offshore never to return The author takes issue with those who emphasize the potential benefits of globalization without taking notice of its many negative effects on American society He also argues that inept policy threatens to derail the American economy permanently and that our economic malaise is more than a short term reaction to a financial market collapse or global

market forces He cites critical areas where changes must be made to reverse the negative trend Improving our 1950s era educational system to produce a workforce able to compete for 21st century jobs Reform of tax codes that have been driving companies and jobs offshore We are currently a nation that manufactures practically nothing Weaning all levels of government away from deficit spending which drains economic power Pursuing free trade that also means fair trade Ending the cycle of credit card debt and all too easy mortgage credit to finance ultimately unaffordable lifestyles Making the United States more business friendly so companies will grow and provide desperately needed jobs here at home The author warns that unless we implement these and other recommended changes the American economy will inevitably decline while China India and other up and coming nations ascend He maintains that all is not lost If we follow the course he sets we can reinvigorate and renew our economy rebuild America's greatness create 21st century jobs and more This book provides a roadmap for reclaiming American preeminence

Communities of Computing Thomas J. Misa, 2016-11-10 *Communities of Computing* is the first book length history of the Association for Computing Machinery ACM founded in 1947 and with a membership today of 100 000 worldwide It profiles ACM's notable SIGs active chapters and individual members setting ACM's history into a rich social and political context The book's 12 core chapters are organized into three thematic sections Defining the Discipline examines the 1960s and 1970s when the field of computer science was taking form at the National Science Foundation Stanford University and through ACM's notable efforts in education and curriculum standards Broadening the Profession looks outward into the wider society as ACM engaged with social and political issues and as members struggled with balancing a focus on scientific issues and awareness of the wider world Chapters examine the social turbulence surrounding the Vietnam War debates about the women's movement efforts for computing and community education and international issues including professionalization and the Cold War Expanding Research Frontiers profiles three areas of research activity where ACM members and ACM itself shaped notable advances in computing including computer graphics computer security and hypertext Featuring insightful profiles of notable ACM leaders such as Edmund Berkeley George Forsythe Jean Sammet Peter Denning and Kelly Gotlieb and honest assessments of controversial episodes the volume deals with compelling and complex issues involving ACM and computing It is not a narrow organizational history of ACM committees and SIGS although much information about them is given All chapters are original works of research Many chapters draw on archival records of ACM's headquarters ACM SIGs and ACM leaders This volume makes a permanent contribution to documenting the history of ACM and understanding its central role in the history of computing

Digital Universe Peter B. Seel, 2022-03-10 An illuminating examination of the benefits and drawbacks of global digital communication In this newly revised Second Edition of *Digital Universe* The Global Telecommunication Revolution journalism and digital telecommunication expert Peter B Seel delivers a fascinating and insightful exploration of digital communication technologies and their substantial effects on contemporary life This book traces the evolution of digital information and

communication tools used around the world from undersea telegraph cables to the newest mobile phones Digital Universe introduces readers to important inventors scientists artists and thinkers in its discussions of the history and socio cultural effects of technology adoption It offers an accessible tour of the global digital universe and provides new perspectives and critical observations on mediated human communication The book also includes A thorough introduction to digital communication the internet and the origins of the world wide web Comprehensive explorations of telecommunication and media convergence including the profound effects of the adoption of wired and wireless technologies worldwide Practical discussions of internet control cyberculture and dystopian views including online censorship the loss of personal privacy surveillance capitalism increasing data hacks and cyberwarfare The book introduces an original concept the Tao of Technology that encourages readers to adopt an enhanced worldview of informed ambivalence toward the diffusion of new telecommunication technologies A new chapter on artificial intelligence A I explores its application in global telecommunication and examines the biases introduced by its creators In depth examinations of new technologies including alternative digital realities such as virtual and augmented realities and their potential effects on the future of digital communication Perfect for undergraduate and graduate students in journalism technical communication speech communication technology history sociology anthropology computer information systems and education it provides the latest data on innovations in telecommunication The second edition of Digital Universe The Global Telecommunication Revolution will be an invaluable resource for anyone with an interest in the evolution of the internet new telecommunication technologies communication privacy and surveillance the rise of social media and the consequences of the diffusion of information and communication technologies *Handbook of Research on Socio-Technical Design and Social Networking Systems* Whitworth, Brian, de Moor, Aldo, 2009-03-31 Addresses current issues of research into socio technical systems STSs Provides suggestions on how social knowledge can synergize with technical knowledge **Making IT Better** National Research Council, Commission on Physical Sciences, Mathematics, and Applications, Computer Science and Telecommunications Board, Committee on Information Technology Research in a Competitive World, 2000-10-05 The flood of information technology I T products and services entering the market place often obscures the need to nurture the research enterprise But as I T becomes integrated into all aspects of society the need for research is even greater And the range of issues that need to be addressed is broader than ever This new book highlights the fundamental importance of research to ensure that I T meets society s expanding needs Against the background of dramatic change in the I T landscape the committee examines four key questions Is the scope of I T research broad enough particularly in the arena of large scale systems to address government business and social applications Are government and industrial sponsors providing sufficient funding for I T research Is the research net big both big and diverse enough to capture sufficient financial and intellectual resources to advance the field Are structures and mechanisms for funding and conducting research suited to the new sets of

research challenges *The Digital Flood* James W. Cortada, 2012-09-27 The history of how computers spread to over 20 nations globally in less than six decades exploring economic political social and technological reasons and consequences It is based on extensive research into primary and secondary sources and concludes with a discussion of implications for key players in the globalized economy **America Inc.?** Linda Weiss, 2014-04-01 For more than half a century the United States has led the world in developing major technologies that drive the modern economy and underpin its prosperity In *America Inc* Linda Weiss attributes the U S capacity for transformative innovation to the strength of its national security state a complex of agencies programs and hybrid arrangements that has developed around the institution of permanent defense preparedness and the pursuit of technological supremacy She examines how that complex emerged and how it has evolved in response to changing geopolitical threats and domestic political constraints from the Cold War period to the post 9 11 era Weiss focuses on state funded venture capital funds new forms of technology procurement by defense and security related agencies and innovation in robotics nanotechnology and renewable energy since the 1980s Weiss argues that the national security state has been the crucible for breakthrough innovations a catalyst for entrepreneurship and the formation of new firms and a collaborative network coordinator for private sector initiatives Her book appraises persistent myths about the military commercial relationship at the core of the National Security State Weiss also discusses the implications for understanding U S capitalism the American state and the future of American primacy as financialized corporations curtail investment in manufacturing and innovation

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