

MACHINE DREAMS

ECONOMICS
BECOMES A
CYBORG
SCIENCE



Philip Mirowski

Machine Dreams Economics Becomes A Cyborg Science

Liying Dong



Machine Dreams Economics Becomes A Cyborg Science:

Machine Dreams Philip Mirowski, 2002 This is the first cross over book into the history of science written by an historian of economics It shows how history of technology can be integrated with the history of economic ideas The analysis combines Cold War history with the history of postwar economics in America and later elsewhere revealing that the Pax Americana had much to do with abstruse and formal doctrines such as linear programming and game theory It links the literature on cyborg to economics an element missing in literature to date The treatment further calls into question the idea that economics has been immune to postmodern currents arguing that neoclassical economics has participated in the deconstruction of the integral self Finally it argues for an alliance of computational and institutional themes and challenges the widespread impression that there is nothing else besides American neoclassical economic theory left standing after the demise of Marxism

Mirowski's Machine Dreams Alexander J. Field, 2009 Review Essay on Philip Mirowski *Machine Dreams Economics Becomes a Cyborg Science* 2002

How Economics Became a Mathematical Science E. Roy Weintraub, 2002-05-28 Discusses the history of 20th century economics and how it has become dominated by mathematical approaches

Trends in Business and Economic Ethics Christopher Cowton, Michaela Haase, 2008-07-19 A growing body of academic and business specialists are paying attention to ethical issues in business and economics drawing on a wide range of different disciplinary and theoretical perspectives This volume presents important new insights from scholars in economics philosophy business ethics and management studies In addition to providing specific perspectives on particular topics it presents strategic perspectives on the development of the field Readers can inform themselves on developments in particular areas such as social accountability or stakeholder governance they will also find substantial contributions related to the interfaces of ethics and economics economics and philosophy business ethics and political science and business ethics and management The collection is a thought provoking contribution to the development of business and economic ethics as an increasingly important field of academic study

The Oxford Handbook of Computational Economics and Finance Shu-Heng Chen, Mak Kaboudan, Ye-Rong Du, 2018 The Oxford Handbook of Computational Economics and Finance provides a survey of both the foundations of and recent advances in the frontiers of analysis and action It is both historically and interdisciplinarily rich and also tightly connected to the rise of digital society It begins with the conventional view of computational economics including recent algorithmic development in computing rational expectations volatility and general equilibrium It then moves from traditional computing in economics and finance to recent developments in natural computing including applications of nature inspired intelligence genetic programming swarm intelligence and fuzzy logic Also examined are recent developments of network and agent based computing in economics How these approaches are applied is examined in chapters on such subjects as trading robots and automated markets The last part deals with the epistemology of simulation in its trinity form with the integration of simulation computation and dynamics Distinctive is the focus on natural

computationalism and the examination of the implications of intelligent machines for the future of computational economics and finance Not merely individual robots but whole integrated systems are extending their immigration to the world of Homo sapiens or symbiogenesis *Modeling Rational Agents* Nicola Giocoli,2003-01-01 This book explores the evolution through the first half of the 20th century of the key neoclassical concept of rationality The analysis begins with the development of modern decision theory covers the interwar debates over the role of perfect foresight and analyzes the first game theoretic solution concepts of von Neumann and Nash The author s proposition is that the notion of rationality suffered a profound transformation that reduced it to a formal property of consistency Such a transformation paralleled that of neoclassical economics as a whole from a discipline dealing with real economic processes to one investigating issues of logical consistency between mathematical relationships *The Social Epistemology of Experimental Economics* Ana Cordeiro dos Santos,2009-09-11 This book develops a framework for the analysis of scientific experimentation and applies it to the experimental field of economics looking at the epistemic role of the participation of human subjects in economics experiments **Selling the American People** Lee McGuigan,2023-07-18 How marketers learned to dream of optimization and speak in the idiom of management science well before the widespread use of the Internet Algorithms data extraction digital marketers monetizing eyeballs these all seem like such recent features of our lives And yet Lee McGuigan tells us in this eye opening book digital advertising was well underway before the widespread use of the Internet Explaining how marketers have brandished the tools of automation and management science to exploit new profit opportunities *Selling the American People* traces data driven surveillance all the way back to the 1950s when the computerization of the advertising business began to blend science technology and calculative cultures in an ideology of optimization With that ideology came adtech a major infrastructure of digital capitalism To help make sense of today s attention merchants and choice architects McGuigan explores a few key questions How did technical experts working at the intersection of data processing and management sciences come to command the center of gravity in the advertising and media industries How did their ambition to remake marketing through mathematical optimization shape and reflect developments in digital technology In short where did adtech come from and how did data driven marketing come to mediate the daily encounters of people products and public spheres His answers show how the advertising industry s efforts to bend information technologies toward its dream of efficiency and rational management helped to make surveillance capitalism one of the defining experiences of public life

Foundations and Applications of Complexity Economics J. Barkley Rosser, Jr.,2021-05-21 This book presents a survey of the aspects of economic complexity with a focus on foundational interdisciplinary ideas The long awaited follow up to his 2011 volume *Complex Evolutionary Dynamics in Urban Regional and Ecologic Economic Systems* From Catastrophe to Chaos and Beyond this volume draws together the threads of Rosser s earlier work on complexity theory and its wide applications in economics and an expanded list of related disciplines The book begins with a full account of the broader

categories of complexity in economics dynamic computational hierarchical and structural before shifting to more detailed analysis The next two chapters address problems associated with computational complexity especially those of computability and discuss the Godel Incompleteness Theorem with a focus on reflexivity The middle chapters discuss the relationship between entropy econophysics evolution and economic complexity respectively with applications in urban and regional dynamics ecological economics general equilibrium theory as well as financial market dynamics The final chapter works to bring together these themes into a broader framework and expose some of the limits concerning analysis of deeper foundational issues With applications in all disciplines characterized by interconnected nonlinear adaptive systems this book is appropriate for graduate students professors and practitioners in economics and related disciplines such as regional science mathematics physics biology environmental sciences philosophy and psychology

Militarizing the Environment Robert P. Marzec, 2015-12-21 As the seriousness of climate change becomes more and more obvious military institutions are responding by taking a prominent role in the governing of environmental concerns engaging in climate change war games and preparing for the effects of climate change from conflicts due to loss of food water and energy to the mass migration of millions of people displaced by rising sea levels This combat oriented stance stems from a self destructive pattern of thought that Robert P Marzec names environmentality an attitude that has been affecting human environmental relations since the seventeenth century *Militarizing the Environment* traces the rise of this influential mindset in America and other nations that threatens to supplant ideas of sustainability with demands for adaptation In this extensive historical study of scientific military political and economic formations across five centuries Marzec reveals how environmentality has been instrumental in the development of today's security society informing the creation of the military industrial complex during World War II and the National Security Act that established the CIA during the Cold War Now embedded in contemporary Western thought environmentality has even infiltrated scientific thinking transforming Darwinian insights into a quasi theology that makes security the biological basis of existence Marzec exposes the self destructive nature of this increasingly accepted worldview and offers alternatives that counter the blind alleys of national and global security

Milton Friedman Jennifer Burns, 2023-11-14 An Economist Best Book of 2023 One of The New York Times 33 Nonfiction Books to Read This Fall Named a most anticipated fall book by the Chicago Tribune and Bloomberg Finalist for the 2024 Hayek Book Prize Wherever you sit on the political spectrum there's a lot to learn from this book More than a biography of one controversial person it's an intellectual history of twentieth century economic thought Greg Rosalesky NPR's Planet Money The first full biography of America's most renowned economist Milton Friedman was alongside John Maynard Keynes the most influential economist of the twentieth century His work was instrumental in the turn toward free markets that defined the 1980s and his full throated defenses of capitalism and freedom resonated with audiences around the world It's no wonder the last decades of the twentieth century have been called the Age of Friedman or that analysts have sought to hold him responsible for both the

rising prosperity and the social ills of recent times In Milton Friedman the first full biography to employ archival sources the historian Jennifer Burns tells Friedman s extraordinary story with the nuance it deserves She provides lucid and lively context for his groundbreaking work on everything from why dentists earn less than doctors to the vital importance of the money supply to inflation and the limits of government planning and stimulus She traces Friedman s long standing collaborations with women including the economist Anna Schwartz his complex relationships with powerful figures such as the Federal Reserve chairman Arthur Burns and the Treasury secretary George Shultz and his direct interventions in policymaking at the highest levels Most of all Burns explores Friedman s key role in creating a new economic vision and a modern American conservatism The result is a revelatory biography of America s first neoliberal and perhaps its last great conservative

International Encyclopedia of Economic Sociology Jens Beckert, Milan Zafirovski, 2006 Dealing with the multiple and complex relations between economy and society this encyclopedia focuses on the impact of social political and cultural factors on economic behaviour It is useful for students and researchers in sociology economics political science and also business organization and management studies

Complexity and the Economy W. Brian Arthur, 2015 A collection of previous published papers by the author on the subject of complexity economics appearing from the 1980s to the present

Communist Planning versus Rationality János Mátyás Kovács, 2022-04-14 This volume examines concepts of central planning a cornerstone of political economy in Soviet type societies It revolves around the theory of optimal planning which promised a profound modernization of Stalinist style verbal planning Encouraged by cybernetic dreams in the 1950s and supporting the strategic goals of communist leaders in the Cold War optimal planners offered the ruling elites a panacea for the recurrent crises of the planned economy Simultaneously their planning projects conveyed the pride of rational management and scientific superiority over the West The authors trace the rise and fall of the research program in the communist era in eight countries of Eastern Europe including the Soviet Union and China describing why the mission of optimization was doomed to fail and why the failure was nevertheless very slow The theorists of optimal planning contributed to the rehabilitation of mathematical culture in economic research in the communist countries and thus to a neoclassical turn in economics all over the ex communist world However because they have not rejected optimal planning as computopia there is a large space left behind for future generations to experiment with Big Optimal Plans anew based at this time on artificial intelligence and machine learning

Policy Implications of Recent Advances in Evolutionary and Institutional

Economics Claudius Grabner, Torsten Heinrich, Henning Schwardt, 2016-05-12 This collection is inspired by the coming retirement of Professor Wolfram Elsner It presents cutting edge economic research relevant to economic policies and policy making placing a strong focus on innovative perspectives In a changing world that has been shaken by economic social financial and ecological crises it becomes increasingly clear that new approaches to economics are needed for both theoretical and empirical research for applied economics as well as policy advice At this point it seems necessary to develop

new methods to reconsider theoretical foundations and especially to take into account the theoretical alternatives that have been advocated within the field of economics for many years This collection seeks to accomplish this by including institutionalist evolutionary complexity and other innovative perspectives It thereby creates a unique selection of methodological and empirical approaches ranging from game theory to economic dynamics to empirical and historical theoretical analyses The interested reader will find careful reconsiderations of the historical development of institutional and evolutionary theories enlightening theoretical contributions interdisciplinary ideas as well as insightful applications The collection serves to highlight the common ground and the synergies between the various approaches and thereby to contribute to an emerging coherent framework of alternative theories in economics This book is of interest to those who study political economy economic theory and philosophy as well as economic policy

The Economics of Economics, 2010-01-01 Philosophy of Mathematics and Economics Thomas A. Boylan, Paschal F. O'Gorman, 2018-04-09 With the failure of economics to predict the recent economic crisis the image of economics as a rigorous mathematical science has been subjected to increasing interrogation One explanation for this failure is that the subject took a wrong turn in its historical trajectory becoming too mathematical Using the philosophy of mathematics this unique book re-examines this trajectory Philosophy of Mathematics and Economics re-analyses the divergent rationales for mathematical economics by some of its principal architects Yet it is not limited to simply enhancing our understanding of how economics became an applied mathematical science The authors also critically evaluate developments in the philosophy of mathematics to expose the inadequacy of aspects of mainstream mathematical economics as well as exploiting the same philosophy to suggest alternative ways of rigorously formulating economic theory for our digital age This book represents an innovative attempt to more fully understand the complexity of the interaction between developments in the philosophy of mathematics and the process of formalisation in economics Assuming no expert knowledge in the philosophy of mathematics this work is relevant to historians of economic thought and professional philosophers of economics In addition it will be of great interest to those who wish to deepen their appreciation of the economic contours of contemporary society It is also hoped that mathematical economists will find this work informative and engaging

William Stanley Jevons and the Making of Modern Economics Harro Maas, 2005-04-04 This book examines William Stanley Jevons's role in revolutionizing nineteenth century economics **Economists and Societies** Marion Fourcade, 2009 Economists and Societies explores the role of economists in the modern world It looks at the extent of their involvement in social programs the regulatory environment commerce offers analysis of the development of this ubiquitous profession

Machine and Sovereignty Yuk Hui, 2024-10-29 Developing a new political thought to address today's planetary crises What is planetary thinking today Arguing that a new approach is urgently needed Yuk Hui develops a future-oriented mode of political thought that encompasses the unprecedented global challenges we are confronting the rise of artificial intelligence the ecological crisis and intensifying

geopolitical conflicts *Machine and Sovereignty* starts with three premises The first affirms the necessity of developing a new language of coexistence that surpasses the limits of nation states and their variations the second recognizes that political forms including the polis empire and the state are technological phenomena which Lewis Mumford terms megamachines The third suggests that a particular political form is legitimated and rationalized by a corresponding political epistemology The planetary thinking that this book sketches departs from the opposition between mechanism and organism which characterized modern thought to understand the epistemological foundations of Hegel's political state and Schmitt's *Gesamtheit* and their particular ways of conceiving the question of sovereignty Through this reconstruction Hui exposes the limits of the state and reflects on a new theoretical matrix based on the interrelated concepts of biodiversity *no*odiversity and technodiversity Arguing that we are facing the limit of modernity of the eschatological view of history of globalization and of the human Hui conceives necessary new epistemological and technological frameworks for understanding and rising to the crises of our present and our future Retail e book files for this title are screen reader friendly

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