# The Theory of Economic Complexity

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César Hidalgo, and Viktor Stojkoski

## Abstract

Economic complexity estimates rely on eigenvectors derived from matrices of specialization to explain differences in economic growth, inequality, and sustainability. Yet, despite their widespread use, we still lack a principled theory that can deduce these eigenvectors from first principles and place them in the context of a mechanistic model. Here, we calculate these eigenvectors analytically for a model where the output of an economy in an activity increases with the probability the economy is endowed with the factors required by the activity. We show that the eigenvector known as the Economic Complexity Index or ECI is a monotonic function of the probability that an economy is endowed with a factor, and that in a multi-factor model, it is an estimate of the average endowment across all factors. We then generalize this result to other production functions and to a short-run equilibrium framework with prices, wages, and consumption. We find that our main result does not depend on the introduction of prices or wages, and that the derived wage function is consistent with the convergence of economies with a similar level of complexity. Finally, we use this model to explain the shape of networks of related activities, such as the product space and the research space. These findings solve longstanding theoretical puzzles in the economic complexity literature and validate the idea that metrics of economic complexity are estimates of an economy being endowed with multiple factors.

## **The Idea Of Economic Complexity**

Alfredo Pereira Jr, Francisco Sousa

#### The Idea Of Economic Complexity:

**The Idea of Economic Complexity** David Warsh,1985 Economic Complexity and Human Development Dominik Hartmann, 2018-03-12 This book combines the human development approach and innovation economics in order to explore the effects that structural economic change has on human development While economic diversification can provide valuable new social choices and capabilities it also tends to lead to more complex decision processes and changes to the set of capabilities required by people to self determine their future Within this process of structural transformation social networks are crucial for accessing information and social support but networks can also be a root cause of exclusion and inequality reproduction This implies the need to encourage innovation and economic diversification beyond production expansion focusing on the promotion of human agency and social inclusion This book provides such a modern perspective on development economics emphasizing the role of social networks economic diversity and entrepreneurship for social welfare The author discusses how innovation social networks economic dynamics and human development are interlinked and provides several practical examples of social and micro entrepreneurship in contexts as diverse as Peruvian rural villages and Brazil s urban areas The interdisciplinary perspective put forward in this book illustrates theoretical and methodological methods of exploring the complexity of development in a practical and relevant way It also provides useful information about structural factors which need to be considered by practitioners when designing pro poor growth policies Furthermore the coverage of the core concepts of innovation networks and development economics enriched with multiple examples makes it a valuable resource for scholars and advanced students of modern development economics Handbook on the Economic Complexity of Technological Change Cristiano Antonelli, 2011-01-01 This comprehensive and innovative Handbook applies the tools of the economics of complexity to analyse the causes and effects of technological and structural change It grafts the intuitions of the economics of complexity into the tradition of analysis based upon the Schumpeterian and Marshallian legacies The Handbook elaborates the notion of innovation as an emerging property of the organized complexity of an economic system and provides the basic tools to understand the recursive dynamics between the emergence of innovation and the unfolding of organized complexity In so doing it highlights the role of organizational thinking in explaining the introduction of innovations and the dynamics of structural change With a new methodological approach to the economics of technological change this wide ranging volume will become the standard reference for postgraduates academics and practitioners in the fields of evolutionary economics complexity economics and the economics of innovation The Atlas of Economic Complexity Ricardo Hausmann, Cesar A. Hidalgo, Sebastian Bustos, Michele Coscia, Alexander Simoes, 2014-01-17 Maps capture data expressing the economic complexity of countries from Albania to Zimbabwe offering current economic measures and as well as a guide to achieving prosperity Why do some countries grow and others do not The authors of The Atlas of Economic Complexity offer readers an explanation based on Economic Complexity a measure of a society s

products The Atlas of Economic Complexity attempts to measure the amount of productive knowledge countries hold and how they can move to accumulate more of it by making more complex products Through the graphical representation of the Product Space the authors are able to identify each country s adjacent possible or potential new products making it easier to find paths to economic diversification and growth In addition they argue that a country s economic complexity and its position in the product space are better predictors of economic growth than many other well known development indicators including measures of competitiveness governance finance and schooling Using innovative visualizations the book locates each country in the product space provides complexity and growth potential rankings for 128 countries and offers individual country pages with detailed information about a country s current capabilities and its diversification options The maps and visualizations included in the Atlas can be used to find more viable paths to greater productive knowledge and prosperity

The Idea of History in Constructing Economics Michael H. Turk, 2015-08-11 How scientific is economics This question has often been framed by analogies and correspondences made between economics and other seemingly more well established scientific disciplines starting with classical mechanics At the same time economics is likely to be seen in opposition to or in contrast with history where the reliance upon generalizing rules thought experiments and model construction in economics is set against the amassing of particular facts intended to create narratives in history In this new volume Turk explores the relationship between economics and history including the often fraught one between economics and economic history making the case that economics does in fact require the proper grounding in history that has so often been ignored This work challenges the attempt to link economics with other more clearly scientific disciplines as flawed and fundamentally wrongheaded A key element of this book is its examination of the gaps and associations that exist in or are seen through linkages with thermodynamics classical mechanics biology literature mathematics philosophy and sociology This exploration is frequently undertaken through study of the work of one or more major figures in the history of economic thought ranging from Quesnay and Smith through Walras and Max Weber to Robinson Krugman David and Arthur Through the possibility of an alternative to the gaps noted in each such comparison the underlying necessary connection between economics and history can be brought out The book concludes by exploring the basis for the positive construction of a historical economics This book is suited for those who study history of economic thought and philosophy of economics **Evolution and Economic Complexity** J. Stanley Metcalfe, John Foster, 2007-01-01 This book provides a useful introduction to evolutionary economics Adam Gifford Journal of Bioeconomics With this important collection of fine new papers Foster and Metcalfe have brought together another volume that will make an impact on the newly unfolding science of complexity approach to economics Ranging from the theoretical foundations to modeling tools and concrete empirical applications the contributions cover all relevant areas The reader is being offered exciting new views on variety generating and selecting mechanisms in

the economy and their role for technological and commercial change Ulrich Witt Max Planck Institute Jena Germany Dedicated to the goal of furthering evolutionary economic analysis this book provides a coherent scientific approach to deal with the real world of continual change in the economic system Expansive in its scope this book ranges from abstract discussions of ontology analysis and theory to more practical discussions on how we can operationalize notions such as capabilities from what we understand as knowledge Simulation techniques and empirical case studies are also used Sharpening the focus of the relationship between economic evolution and economic complexity the book will be of great interest to academics students and researchers of evolutionary economics Principles of Complexity Economics Michael Roos, 2024-08-05 This textbook serves as an introduction to the rising field of complexity economics In thirteen chapters it provides a comprehensive and systematic overview of the concepts and methods of complexity economics and their applications to economic issues The book explains that the complexity approach is not just another method but a worldview that is different from the one of academics with neoclassical training By contrasting complexity economics with neoclassical economics the readers are induced to reflect on their own unconscious beliefs about the economic world and develop their own approach to dealing with the pervasive complexities and uncertainties of reality. The first five chapters serve as an introduction and overview Chapters 6 12 present the core concepts of the book Each of the seven chapters introduces a key concept of complexity and provides applications to economics topics. The final chapter discusses the implications of complexity thinking for economic policy and for the future development of economics This textbook addresses advanced undergraduate students and graduate students of economics interested in a better understanding of the concepts and the way of thinking in complexity economics as well as in acquiring a sound technical foundation to understand most of the research literature Economics: Complex Windows Massimo Salzano, Alan P. Kirman, 2006-01-17 In some ways the e ect of achieving understanding is to reverse completely our initial attitude of mind For everyone starts as we have said by being perplexed by some fact or other for instance the fact that the diagonal of a square is incommensurable with the side Anyone who has not yet seen why the side and the diagonal have no common unit regards this as quite extra dinary But one ends up in the opposite frame of mind for nothing would so much abbergast a mathematician as if the diagonal and side of a square were to become commensurable Aristotele This is the rst volume of a new series entitled New Economic Windows Each volume in the series will we hope provide pointers towards a better understanding of the nature of economic phenomena and help to reverse our initial state of mind as economists As H Simon observed Economics must be considered a hard in the sense of di cult rather than precise science As he cogently argued the problems dealt with are so complex they cannot simply be reduced to analytically solvable models or decomposed into sepa 1 rate sub processes In this he was following on from Einstein who many years earlier when asked why he had not turned his attention to economics said that he found it too di cult a subject to handle scienti cally **Principles for Governance** Alfredo Pereira Jr, Francisco Sousa, 2023-10-27 This

edited volume provides strategies for reducing inequality and promoting human development through the use of innovative digital technology and the adoption of new bioethical principles for governance The book is structured around a series of practical proposals which can be adapted to different circumstances countries and political systems Written by an interdisciplinary panel of international researchers and professionals each chapter details a proposal for a policy new social technology Green Deals robust social assistance that will move society forward towards a sustainable digital and equitable future Researchers across multiple disciplines public administration cognitive technology E learning finance philosophy of economy agronomics forest engineering bioethics and education will find this volume a useful reference **Endogenous Money and Macroeconomic Theory** Mark Setterfield, 2006-01-01 That the chapters in the volume cover such a wide range of important often fundamental topics is a proper tribute to Basil Moore s influence and contributions over his working life From the foreword by G C Harcourt Jesus College Cambridge UK During a distinguished career Basil Moore has made numerous important contributions to macroeconomics and monetary economics and is renowned as the progenitor of the horizontalist analysis of endogenous money More recently he has embraced complexity theory as part of an ongoing effort to understand macroeconomics as an evolving path dependent process This book celebrates and explores Basil Moore s interests in and contributions to monetary and macroeconomic theory Complexity Endogenous Money and Macroeconomic Theory features original essays by internationally acclaimed and expert authors It comprises a selection of papers on five distinct but interrelated themes economic concepts tools and methodology complexity uncertainty and path dependence the macroeconomics of endogenous money the macroeconomics of exogenous interest rates and unemployment inflation and the determination of aggregate income These papers combine to provide a comprehensive methodological and theoretical discussion of the macroeconomics of a monetary production economy. The book will be of interest to professionals and research students in the fields of macroeconomics and monetary economics especially those with an interest in the Post Keynesian approach to analyzing these fields including the wide audience that has been reached by the contributions of Basil Moore himself Economic Complexity and Equilibrium Illusion Ping Chen, 2010-04-05 The Principle of Large Numbers indicates that macro fluctuations have weak microfoundations persistent business cycles and interrupted technologies can be better characterized by macro vitality and meso foundations Economic growth is limited by market extent and ecological constraints The trade off between stability and complexity is the foundation of cultural diversity and mixed economies The new science of complexity sheds light on the sources of economic instability and complexity This book consists of the major work of Professor Ping Chen a pioneer in studying economic chaos and economic complexity They are selected from works completed since 1987 including original research on the evolutionary dynamics of the division of labour empirical and theoretical studies of economic chaos and stochastic models of collective behavior Offering a new perspective on market instability and the changing world order the basic pillars in equilibrium economics are challenged by solid

evidence of economic complexity and time asymmetry including Friedman's theory of exogenous money and efficient market the Frisch model of noise driven cycles the Lucas model of microfoundations and rational expectations the Black Scholes model of option pricing and the Coase theory of transaction costs Throughout a general theory based on complex evolutionary economics is developed which integrates different insights from Marx Marshall Schumpeter Keynes and offers a new understanding of the evolutionary history of division of labour This book will be of interest to postgraduates and researchers in Economics including macroeconomics financial economics advanced econometrics and economic methodology

Decision Economics: Complexity of Decisions and Decisions for Complexity Edgardo Bucciarelli, Shu-Heng Chen, Juan Manuel Corchado, 2020-02-07 This book is based on the International Conference on Decision Economics DECON 2019 Highlighting the fact that important decision making takes place in a range of critical subject areas and research fields including economics finance information systems psychology small and international business management operations and production the book focuses on analytics as an emerging synthesis of sophisticated methodology and large data systems used to guide economic decision making in an increasingly complex business environment DECON 2019 was organised by the University of Chieti Pescara Italy the National Chengchi University of Taipei Taiwan and the University of Salamanca Spain and was held at the Escuela polit cnica Superior de vila Spain from 26th to 28th June 2019 Sponsored by IEEE Systems Man and Cybernetics Society Spain Section Chapter and IEEE Spain Section Technical Co Sponsor IBM Indra Viewnext Global Exchange AEPIA and APPIA with the funding supporting of the Junta de Castilla y Le n Spain ID SA267P18 Project co Reaping the Benefits from Global Value Chains Mr. Kevin C. Cheng, Sidra financed with FEDER funds Rehman, Miss Dulani Seneviratne, Shiny Zhang, 2015-09-28 Against the backdrop of the rise of global value chains GVCs particularly in Asia this paper documents key developments of GVCs and investigates what factors cause economies to reap greater benefits from GVC participation Key findings include first moving toward a more upstream position in production and raising economic complexity are associated with the country increasing its share of GVC value added Second fostering GVC participation and expanding the share of the domestic value added in a value chain require efforts to reduce trade barriers enhance infrastructure foster human capital formation support research and development and improve institutions

**Economics as Science** Bernard C. Beaudreau, 2025-04-14 This book provides a critical approach to the study of economic thought from neoclassical economics to Marxian economics and to Keynesian economics through the lens of science and the scientific method It examines the collection of ideas that constitute the core of economic thought in the five basic fields of economics growth theory income distribution macroeconomics price theory and international trade In each of these the analysis is chronological detailing the various events and developments that led scholars to inquire into the underlying mechanics of the phenomena in question This is followed by a critical examination of the various scholarly contributions including those of Nobel Prize laureates in terms of their scientific merit Each of the five core chapters begins

with a listing of chapter objectives and ends with a summary as well as discussion questions to encourage debate Short excerpts from the key works are provided to allow the reader first hand exposure to primary sources Reinforcing the idea that economics is a scientific endeavor Economics as Science A Critical History of Economic Thought sets out to demonstrate the relevance of the tools and techniques students of economics acquire during their studies in understanding economic phenomena throughout the ages It will be an invaluable resource for students of the history of economic thought and economics more generally Applying Interdisciplinarity to Globalization, Management, Marketing, and Accountancy Science Pavlát, Vladislav, Knihová, Ladislava, Civín, Lubomír, Halík, Jaroslav, MacGregor Pelikánová, Radka, 2023-10-16 With the world becoming increasingly interconnected and complex traditional means are no longer sufficient to address complex global issues Scholars often struggle to navigate the intricate web of interdisciplinary research and theory This gap in understanding leaves many academics feeling adrift in their pursuit of knowledge unable to harness the full potential of interdisciplinary collaboration Applying Interdisciplinarity to Globalization Management Marketing and Accountancy Science offers a comprehensive and up to date solution to the obstacles of interdisciplinarity. It meticulously analyzes the theory and methodology of interdisciplinarity as it exists in the most relevant literature and through a detailed examination of four vital disciplines in the applied economy it compares and contrasts the dynamics of globalization and its reflections within these fields Furthermore it uncovers the hidden infrastructures supporting these disciplines and offers practical insights into applying this knowledge in research and practice This book is an indispensable resource for scholars and educators across diverse disciplines empowering them to embrace interdisciplinarity with confidence **Routledge International** Handbook of Complexity Economics Ping Chen, Wolfram Elsner, Andreas Pyka, 2024-11-29 The Routledge International Handbook of Complexity Economics covers the historical developments and early concerns of complexity theorists and brings them into engagement with the world today In this volume a distinguished group of international scholars explore the state of the art of complexity economics and how it may deliver new and relevant insights to the challenges of the 21st century Complexity science started in 1899 when Henri Poincar described the three body problem The first approaches in economics emerged somewhat later in the 1980s driven by the Brussels Austin school Since then complexity economics has gone through numerous developments departing from linear simplifications applying physical algorithms to evolutionary economics and big data This book covers the basic principles and methods and offers an overview of the various domains ranging from diverse fields of productivity studies agricultural economics to monetary economics as well as the current challenges such as climate change epidemics and economic inequality where complexity economics can provide insight It closes with a review of complexity political economy and policy Offering a vibrant alternative to orthodox economics this handbook is a crucial resource for advanced students researchers and economists across the disciplines of heterodox economics economic theory and econophysics New Perspectives on Structural Change Ludovico Alcorta, Neil

Foster-McGregor, Bart Verspagen, Adam Szirmai, 2021-03-23 New Perspectives on Structural Change is a comprehensive edited volume that outlines both the historical roots and state of the art debates on the role of structural change in the process of economic development including both orthodox and heterodox perspectives and contributions from prominent scholars in this field The volume consists of four main sections The first section covers the theoretical foundations of the structural change literature The second section presents an empirical overview of the major trends of structural change using up to date data sources and methods The third section presents a broad ranging empirical analysis of the drivers of structural change The fourth section examines how processes such as inclusive growth poverty reduction productive employment the global income distribution and environmental sustainability are affected by structural change and how they can be influenced by policy New Facets of Economic Complexity in Modern Financial Markets Catherine Kyrtsou, Didier Sornette, Chris Adcock, 2020-06-04 The book is motivated by the disruptions introduced by the financial crisis and the many attempts that have followed to propose new ideas and remedies Assembling contributions by authors from a variety of backgrounds this collection illustrates the potentials resulting from the marriage of financial economics complexity theory and an out of equilibrium view of the economic world Challenging the traditional hypotheses that lie behind financial market functioning new evidence is provided about the hidden factors fuelling bubbles the impact of agents heterogeneity the importance of endogeneity in the information transmission mechanism the dynamics of herding the sources of volatility the portfolio optimization techniques the financial innovation and the trend identification in a nonlinear time series framework Presenting the advances made in financial market analysis and putting emphasis on nonlinear dynamics this book suggests interdisciplinary methodologies for the study of well known stylised facts and financial abnormalities This book was originally published as a special issue of The European Journal of Finance Unifying Themes in Complex Systems IX Alfredo J. Morales, Carlos Gershenson, Dan Braha, Ali A. Minai, Yaneer Bar-Yam, 2018-07-23 Unifying Themes in Complex Systems is a well established series of carefully edited conference proceedings that serve to document and archive the progress made regarding cross fertilization in this field The International Conference on Complex Systems ICCS creates a unique atmosphere for scientists from all fields engineers physicians executives and a host of other professionals allowing them to explore common themes and applications of complex systems science With this new volume Unifying Themes in Complex Systems continues to establish common ground between the wide ranging domains of complex systems science From Catastrophe to Chaos: A General Theory of Economic Discontinuities J. Barkley Rosser, 2013-12-01 Now however weface an Age of Discontinuity in world economy and tech nology We might succeed in making it an age of great economic growth as weil But the one thing that is certain so far is that it will be a period of change in technology and in economic policy in industry structures and in economic theo ry in the knowledge needed to govern and manage and in economic issues While we have been busy finishing the great nineteenth century economic ed ijice the foundations have shifted beneath our

feet Peter F Drucker 1968 The A e Qf DiscQntinuity p 10 This project has had a lQng gestatiQn period probably ultimately dating to a YQuthful QbsessiQn with watershed divides and bQundaries My awareness Qf the problem Qf discQntinuity in eCQnQmics dates tQ my first enCQunter with the capi tal theQry paradQxes in the late 1960s the fruits Qf which can be seen in Chapter 8 Qf this book This awareness led tQ a frostratiQn Qver the apparent lack Qf a mathematics Qf discQntinuity a lack that was in the process of rapidly being QverCQme at that time

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