


Ruslan Grinberg
Alexander Rubinstein

Economic Socio- dynamics

 Springer

Economic Sociodynamics

Yuji Aruka



Economic Sociodynamics:

Economic Sociodynamics Ruslan Grinberg,Alexander Rubinstein,2005-02-24 In this ambitious book the authors challenge mainstream economic theory to present a new theoretical concept on modern economic reality The book reveals in detail the key notions of the sociodynamic multiplier and the rational behavior of the state **Economic Sociodynamics**

Ruslan Grinberg,Alexander Rubinstein,2005-08-15 In this ambitious book the authors challenge mainstream economic theory by reconsidering the principle of individualism as its foundation They refer to that version which fails to recognize the existence of the interests of society as such and thus excludes the role of the state as an independent market player seeking to realize these interests The outcome is a new theoretical concept called Economic Sociodynamics The book reveals this concept in detail in particular its key notions of the sociodynamic multiplier and the rational behavior of the state

Sociodynamics Wolfgang Weidlich,2013-01-18 Highly recommended This is an important book in putting the burgeoning field of sociodynamics on a solid footing Journal of Artificial Societies and Social Simulation This text deals with general modelling concepts in the social sciences their applications and their mathematical methods The author s well organized approach offers a clear coherent introduction to terminology approaches and goals in modelling Appropriate for advanced undergraduates and graduate students it requires a solid background in algebra and calculus The three part treatment begins by addressing general modelling concepts the second part provides applications and the third discusses mathematical method Topics include population dynamics group interaction political transitions evolutionary economics and urbanization Guiding students through a series of practical applications that illustrate the methods potential scope the text concludes with a detailed look at mathematical methods Social Fairness and Economics Lance Taylor,Armon Rezai,Thomas

Michl,2013-02-11 This volume brings together papers inspired by the work of Duncan Foley an extraordinarily productive economist who has made seminal contributions to a wide variety of areas Foley s work cannot be easily classified but one thread that runs through it is a critical examination along both ethical and analytical lines of conventional neoclassical economic theory particularly involving general equilibrium theories of value and money Foley was a pioneer of complexity economics as well which adopts approaches to these questions drawn from natural sciences so the collection therefore has an interdisciplinary quality that will interest a wide variety of readers Some of the chapters are intellectual biographies that contextualize and identify Foley s contributions to Keynesian macroeconomics Marxian value theory and complexity theory in economics The topics covered include the economics of complexity the ethics of general equilibrium theory the economics of climate change applications of Keynesian Marxian and Ricardian political economy and money and financial crises The collection should be useful to scholars who work in various economic traditions critical of the currently dominant free market approach but it also speaks to scholars of critical theory in various disciplines beyond economics such as the mathematicians physicists and other natural scientists who are interested in understanding the complexity of social processes using their

analytical frameworks This book should also appeal to graduate students in economics who are working in these traditions as well as scholars including current graduate students in orthodox programs who are dissatisfied with the current state of economic theory and would like to satisfy their intellectual curiosity by sampling the contributions of critical theorists

Scholars' Guide to Humanities and Social Sciences in the Soviet Union and the Baltic States Tigran Martirosyan, Silvia Maretti, S. Frederick Starr, 2019-11-21 In the years since the first edition of the Guide was published the research institutions of the academies of sciences of the USSR and the republics have undergone several sometimes radical reorganizations and reaffiliations This guide to academy institutions supplies names addresses and historical research and organizational profiles for each institution with summary information on staffing current projects special facilities and libraries The end of the Cold War has brought with it many changes of attitude and policy in the political arena however nowhere has change been so emotionally charged as in the area of politically based emigration Refugee policy is the driving force behind many of today's headlines influencing both foreign and domestic policy In *Desperate Crossings* authors Norman L and Naomi Flink Zucker chronicle and analyze the phenomenon of mass escape that began with the Haitians but exploded into the American consciousness in the spring of 1980 with the Mariel boatlift and the subsequent mass exodus from Central America and was most recently manifested in the Haitian and Cuban exoduses of 1994 In a compelling and carefully documented narrative they identify the troika of interests foreign policy domestic pressures and costs that have controlled and determined the American response to refugees since before the Second World War continuing until today *Desperate Crossings* concludes by proposing a comprehensive and politically palatable approach to future refugee flows both in our hemisphere and for the world community at large including Europe and Asia The authors suggest how by changing the course of its refugee policies and programs the United States can better respond to both the needs of refugees and the demands of its citizens Digital Future Economic Growth, Social Adaptation, and Technological Perspectives Tatiana Kolmykova, Ekaterina V.

Kharchenko, 2020-04-06 This book provides a systemic view on the digital future from the perspectives of various socio humanitarian sciences economics social sciences pedagogics and law Presenting selected papers from the multi disciplinary international conference Climate changes and economy of the future global transformation which was held at Pskov State University Russia on November 13 14 2019 it offers a comprehensive overview of the current problems and the future potential of digital transformations of economic activities This multidisciplinary book includes the latest research on the opportunities of the digital economy and the social and ecological consequences of its implementation and as such offers a road map for development It also features scientific and practical recommendations to allow effective management of the digitization process according to the current priorities **Social Self-Organization** Dirk Helbing, 2012-05-05 What are the principles that keep our society together This question is even more difficult to answer than the long standing question what are the forces that keep our world together However the social challenges of humanity in the 21st century ranging from the

financial crises to the impacts of globalization require us to make fast progress in our understanding of how society works and how our future can be managed in a resilient and sustainable way This book can present only a few very first steps towards this ambitious goal However based on simple models of social interactions one can already gain some surprising insights into the social macro level outcomes and dynamics that is implied by individual micro level interactions Depending on the nature of these interactions they may imply the spontaneous formation of social conventions or the birth of social cooperation but also their sudden breakdown This can end in deadly crowd disasters or tragedies of the commons such as financial crises or environmental destruction Furthermore we demonstrate that classical modeling approaches such as representative agent models do not provide a sufficient understanding of the self organization in social systems resulting from individual interactions The consideration of randomness spatial or network interdependencies and nonlinear feedback effects turns out to be crucial to get fundamental insights into how social patterns and dynamics emerge Given the explanation of sometimes counter intuitive phenomena resulting from these features and their combination our evolutionary modeling approach appears to be powerful and insightful The chapters of this book range from a discussion of the modeling strategy for socio economic systems over experimental issues up the right way of doing agent based modeling We furthermore discuss applications ranging from pedestrian and crowd dynamics over opinion formation coordination and cooperation up to conflict and also address the response to information issues of systemic risks in society and economics and new approaches to manage complexity in socio economic systems Selected parts of this book had been previously published in peer reviewed journals

Quantitative Sociodynamics Dirk Helbing, 2010-11-15 When I wrote the book Quantitative Sociodynamics it was an early attempt to make methods from statistical physics and complex systems theory fruitful for the modeling and understanding of social phenomena Unfortunately the first edition appeared at a quite prohibitive price This was one reason to make these chapters available again by a new edition The other reason is that in the meantime many of the methods discussed in this book are more and more used in a variety of different fields Among the ideas worked out in this book are 1 a statistical theory of binary social interactions a mathematical formulation of social field theory which is the basis of social 2 force models a microscopic foundation of evolutionary game theory based on what is known today as proportional imitation rule a stochastic treatment of interactions in evolutionary game theory and a model for the self organization of behavioral 3 conventions in a coordination game It therefore appeared reasonable to make this book available again but at a more affordable price To keep its original character the translation of this book which 1 D Helbing Interrelations between stochastic equations for systems with pair interactions PhysicaA 181 29 52 1992 D Helbing Boltzmann like and Boltzmann Fokker Planck equations as a foundation of behavioral models PhysicaA 196 546 573 1993 2 D Helbing Boltzmann like and Boltzmann Fokker Planck equations as a foundation of behavioral models PhysicaA 196 546 573 1993 D

Micro-Macro Links and Microfoundations in Sociology Vincent Buskens, Werner Raub, Marcel Van Assen, 2014-07-16 Micro Macro

Links and Microfoundations in Sociology focuses on two main issues in sociology Firstly how macro conditions can explain macro outcomes mediated by actor behaviour at the micro level micro macro links Secondly how alternative micro models affect macro outcomes microfoundations The contributions reflect key features of micro macro modelling in sociology as well as recent progress in this field The chapters address core features of explanations of social phenomena using micro macro models the problem of cooperation heterogeneity of actors structural balance opinion formation segregation and problems of micro macro models that are based on rational choice assumptions Moreover the contributions show how different research methods can be applied fruitfully such as laboratory experiments equilibrium analysis and agent based modelling As a result the book can be a guide for graduate students who want to develop their skills in building micro macro models In addition the book provides specialists of the different substantive research areas with up to date new developments in their research area This book was originally published as a special issue of Journal of Mathematical Sociology

Modern Economic Tendencies Sidney Armor Reeve,1921

Dictionary Of The Social Sciences Hugo F. Reading,1996 Designed For Students Of The Social Sciences Public Administration Social Administration And Social Work This Dictionary Will Also Be Useful To Those Who Work In Specialized Agencies And International Organisations The Dictionary Defines Over 7 500 Terms Covering All The Social Sciences With The Exception Of Economics And Linguistics Those Economic And Linguistic Terms Which Are Frequently Used In The Other Social Sciences Are However Included As Are Essential Terms From Subjects Peripheral To The Social Sciences Important Statistical Terms Have Been Included As Well As Terms Relating To Surveys Questionnaires Scales And Interviewing As Concise As Possible Without Loss Of Meaning The Definitions Are Hierarchical And Interrelated Thus Giving The Work A Logical Unity

The Paradigm of Social Complexity Gonzalo Castañeda,2020-08-04 With the recent developments in computing technologies and the thriving research scene in Complexity Science economists and other social scientists have become aware of a more flexible and promising alternative for modelling socioeconomic systems one that in contrast with neoclassical economics advocates for the realism of the assumptions the importance of context and culture the heterogeneity of agents individuals or organizations and the bounded rationality of individuals who behave and learn in multifaceted ways in uncertain environments The book synthesizes an extensive body of work in the field of social complexity and constructs a unifying framework that allows developing concrete applications to important socioeconomic problems This one of a kind textbook provides a comprehensive panorama for advanced undergraduates and graduate students who want to become familiar with a wide range of issues related to social complexity It is also a pioneering text that can support professors who wish to learn techniques and produce research in this novel field Con los desarrollos recientes en las tecnologías de la computación y el floreciente dinamismo de las ciencias de la complejidad economistas y otros científicos sociales tienen a su alcance una flexible y prometedora alternativa para la modelación de los sistemas socioeconómicos Esta metodología en contraste con la economía neoclásica aboga por el realismo de los supuestos la importancia del contexto y la

cultura la heterogeneidad de los agentes individuos y organizaciones y la racionalidad acotada de las personas que se comportan y aprenden de maneras muy diversas en entorno con incertidumbre El libro sintetiza la extensa literatura que existe sobre la complejidad social y construye un enfoque unificador que permite elaborar aplicaciones concretas con las que abordar importantes problemas socioeconómicos Se trata de un texto singular dado que presenta un panorama comprensivo del campo de estudio por lo que puede resultar de sumo interés para estudiante de licenciatura avanzados y alumnos de posgrado que desean adentrarse en el tema Asimismo se trata de un texto pionero de gran utilidad para profesores y analistas interesados en aprender algunas de las técnicas del paradigma de la complejidad social para de esta forma aplicarlas en sus tareas de investigación

Social Transformations in Scandinavian Cities Magnus Johansson, Erica Righard, Tapio Salonen, 2016-01-02 The Social Transformations of Scandinavian Cities highlights the changing face of social sustainability and social disintegration in Scandinavian cities against the backdrop of ongoing global societal transformations It contributes to the literature on urban development in advanced societies by bringing in theoretical and empirical analyses of how migration inequality residential segregation and changes in national and local policy intersects and unfolds in urban landscapes in Denmark Norway and Sweden In particular this volume contributes with insights to how these processes play out in a Scandinavian welfare state context In The Social Transformations of Scandinavian Cities we learn in which ways and how progress is being made today

Techno-Social Systems for Modern Economical and Governmental Infrastructures Trousoff, Alexander, Maruev, Sergey, 2018-07-13 Applications have transformed the collaboration environment from a mere document collection into a highly interconnected social space These systems interoperate within a social and organizational context that drives their everyday use and provides a rich context for understanding the role of nodes that represent both people and abstract concepts Techno Social Systems for Modern Economical and Governmental Infrastructures provides emerging research exploring the theoretical and practical aspects of mining technological and social systems for the creation of scalable methods systems and applications within economic and government disciplines Featuring coverage on a broad range of topics such as analysis models data navigation and empirical sociology this book is ideally designed for professionals researchers executives managers and developers seeking current research on the interconnecting roles of technology and social space

Twenty-first-century capital Aleksander Buzgalin, Andrey Kolganov, 2021-11-30 How would Marx have understood twenty first century capitalism For Buzgalin and Kolganov the answer lies in a theoretical investigation of how and why the fundamental elements of capitalism commodities money and capital have changed since the publication of Marx's Capital more than 150 years ago Introducing the concepts of social creativity markets for simulacra and virtual fictitious capital Buzgalin and Kolganov offer a recovery and development of Marx's understanding of social transformations Twenty first century capitalism not only demonstrates Marxism's relevance to the core economic questions of our time and its superiority over neoclassical economics but it leads English language readers into the undiscovered

country of Soviet and post Soviet critical Marxism How might modern Marxism respond to the contemporary challenges of the commodification of knowledge and information And can it arrive at something resembling a Capital for the twenty first century This accessible and comprehensive account is essential reading for those wanting to understand the problems of the modern economy

Evolutionary Economics Yuji Aruka, 2024-05-09 This textbook presents a new way to visualize or imagine the evolutionary architecture of economics to judge both its practical outcomes and its ultimate value Evolutionary economics employs an Aristotelian architecture The cognitive value of this imagination H1 must be directly relevant to the evolutionary theory and practice of designing the architecture of the economic system Mainstream economics completely ignores design value in order to concentrate on the ideal Platonic vision of the economy The current system is no longer one that converges on a constant entity because the system is constantly evolving The advent of the digital economy is an indispensable next step and computational power and algorithmic rationality are increasingly dominating the economic system and complicating it In today's society neither fault nor malice matters in the algorithmic or human system There is little room left for the effective working of human reason Correspondingly the meanings of money exchange the market system auctions production consumption and the currency transaction system are poised to change In most cases there will be digital counterparts A smart contract tied together with DLT for example makes it possible to design an economically well behaved peer to peer P2P system which ranges from the micromarket to the international currency transaction system The introduction of this technology and its architectural design may suggest what a truly decentralized future entails This change may also bring about a new understanding of existing social consensus and practice Thus the implementation of these considerations naturally leads to a new style of chapter structuring in this book from the classical analytical approach to exploring computational methods and digital tools in many cases the problems presented in each chapter are combined with discussions of a respective computational method and its practical value

Symmetry And Complexity: The Spirit And Beauty Of Nonlinear Science Klaus Mainzer, 2005-06-10 Cosmic evolution leads from symmetry to complexity by symmetry breaking and phase transitions The emergence of new order and structure in nature and society is explained by physical chemical biological social and economic self organization according to the laws of nonlinear dynamics All these dynamical systems are considered computational systems processing information and entropy Are symmetry and complexity only useful models of science or are they universals of reality Symmetry and Complexity discusses the fascinating insights gained from natural social and computer sciences philosophy and the arts With many diagrams and pictures this book illustrates the spirit and beauty of nonlinear science In the complex world of globalization it strongly argues for unity in diversity

What Makes Clusters Competitive? Anil Hira, 2013-11-01 While global competitiveness is increasingly invoked as necessary for economic success stories there are few answers available about how it can be achieved or maintained The idea of stimulating industries to spur on economies is often proposed but industrial policy can be seen as a boondoggle of government spending

and theorists of globalization are doubtful that such efforts can succeed in a world of fragmented supply chains

What Makes Clusters Competitive tests fundamental theoretical hypotheses about what makes industries competitive in a globalized world by using the wine industries of several countries as case studies Extremadura Spain Tuscany Italy South Australia Chile and British Columbia Canada Taking into account historical and location specific characteristics and drawing out policy lessons for other regions that would like to promote their industries this volume demonstrates the value of applying cluster theory to understand market forces while also describing the forces underlying the development of the wine industry in a range of different settings An excellent resource for those interested in what makes industries succeed or struggle

What Makes Clusters Competitive offers guidance for policymakers and the private sector on how to promote local industries Contributors include David Aylward Alexis Bwenge Sara Daniele F J Mes as D az Christian Felzenstein Husam Gabreldar F Pulido Garc a Sarah Giest Elisa Giuliani Andy Hira Mike Howlett A F Pulido Moreno and Oriana Perrone

Chaos, Cnn, Memristors And Beyond: A Festschrift For Leon Chua (With Dvd-rom, Composed By Eleonora Bilotta) Andrew Adamatzky, Guanrong Chen, 2013-01-02 This invaluable book is a unique collection of tributes to outstanding discoveries pioneered by Leon Chua in nonlinear circuits cellular neural networks and chaos It is comprised of three parts The first cellular nonlinear networks nonlinear circuits and cellular automata deals with Chua s Lagrangian circuits cellular wave computers bio inspired robotics and neuro morphic architectures toroidal chaos synaptic cellular automata history of Chua s circuits cardiac arrhythmias local activity principle symmetry breaking and complexity bifurcation trees and Chua s views on nonlinear dynamics of cellular automata Dynamical systems and chaos is the scope of the second part of the book where we find genius accounts on theory and application of Julia set stability of dynamical networks chaotic neural networks and neocortical dynamics dynamics of piecewise linear systems chaotic mathematical circuitry synchronization of oscillators models of catastrophic events control of chaotic systems symbolic dynamics and solitons First hand accounts on the discovery of memristors in HP Labs historical excursions into ancient memristors analytical analysis of memristors and hardware memristor emulators are presented in the third and final part of the book The book is quintessence of ideas on future and emergent hardware analytic theories of complex dynamical systems and interdisciplinary physics It is a true Renaissance volume where bright ideas of electronics mathematics and physics enlighten facets of modern science The unique DVD covers the artistic aspects of chaos such as several stunningly melodious musical compositions using chaotic attractors a virtual gallery of hundreds of colorful attractors and even a cartoon like play on the genesis of Chua s circuit that was based on a widely acclaimed performance in Rome and other venues in Italy In short it is a veritable kaleiscope of never before published historical pedagogical and futuristic technical visions on three timely topics of intense interest for both lay readers and experts alike

Social Computing, Behavioral-Cultural Modeling and Prediction William G. Kennedy, Nitin Agarwal, Shanchieh Jay Yang, 2014-03-14 This book constitutes the refereed proceedings of the 7th International Conference on Social Computing Behavioral Cultural

Modeling and Prediction SBP 2014 held in Washington DC USA in April 2014 The 51 full papers presented were carefully reviewed and selected from 101 submissions The SBP conference provides a forum for researchers and practitioners from academia industry and government agencies to exchange ideas on current challenges in social computing behavioral cultural modeling and prediction and on state of the art methods and best practices being adopted to tackle these challenges The topical areas addressed by the papers are social and behavioral sciences health sciences military science and information science

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