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Kinetic Theory and Swarming Tools to Modeling Complex Systems—Symmetry problems in the Science of Living Systems Aug 25 2019 This MPDI book comprises a number of selected contributions to a Special Issue devoted to the modeling and simulation of living systems based on developments in kinetic mathematical tools. The focus is on a fascinating research field which cannot be tackled by the approach of the so-called hard sciences—specifically mathematics—without the invention of new methods in view of a new mathematical theory. The contents proposed by eight contributions witness the growing interest of scientists this field. The first contribution is an editorial paper which presents the motivations for studying the mathematics and physics of living systems within the framework an interdisciplinary approach, where mathematics and physics interact with specific fields of the class of systems object of modeling and simulations. The different contributions refer to economy, collective learning, cell motion, vehicular traffic, crowd dynamics, and social swarms. The key problem towards modeling consists in capturing the complexity features of living systems. All articles refer to large systems of interaction living entities and follow, towards modeling, a common rationale which consists firstly in representing the system by a probability distribution over the microscopic state of the said entities, secondly, in deriving a general mathematical structure deemed to provide the conceptual basis for the derivation of models and, finally, in implementing the said structure by models of interactions at the microscopic scale. Therefore, the modeling approach transfers the dynamics at the low scale to collective behaviors. Interactions are modeled by theoretical tools of stochastic game theory. Overall, the interested reader will find, in the contents, a forward look comprising various research perspectives and issues, followed by hints on to tackle these.

Computational Organization Theory Oct 27 2019 This volume represents an advance in our understanding of how to represent and reason about organizational phenomena. Although organizational theorists have long grappled with the complexities of adaptive agents, ecological systems, and non-linear relations among the basic elements of organizational design, they have not, until recently, had the tools to grapple with these complex relationships. Recent advances in logic, symbolic programming, network analysis, and computer technology have made possible a series of tools that can be used to understand the complexities of organizational behavior. New computational techniques make it possible to develop and test more realistic models of organizational behavior. This volume offers examples of this new breed of models, and provides insight into how these advances and techniques can be used to extend our theoretical understanding of organizations. Authored by leading researchers in the area of computational organization theory, the various chapters demonstrate the value of computational analysis for organizational theory and advance our understanding of the relationship between organizational design and performance. This book contains both theoretical and methodological contributions that enable organizational theorists to use computational and mathematical techniques to systematically address the complex relationships that underlie organizational life. It also presents new -- or sometimes, renewed -- approaches on how to conduct organizational research from multiple formal perspectives including: simulation, numerical analysis, symbolic logic, mathematical modeling, and graph theory.

SIAM Journal on Numerical Analysis Apr 13 2021

CEPR Publication May 27 2022

Monthly Labor Review Mar 13 2021 Publishes in-depth articles on labor subjects, current labor statistics, information about current labor contracts, and book reviews.

Monetary Policy when Interest Rates are Bounded at Zero Jul 29 2022

Distortions in the Nigerian Economy Aug 06 2020

Finance Constraints and the Theory of Money Apr 25 2022 Finance Constraints and the Theory of Money: Selected Papers gathers together the work of S. C. Tsiang, one of the most cogent critics of the Keynesian stock approach to money in all its forms and one of the foremost champions of the flow approach. Tsiang's papers focus on finance constraints and the theory of money, tackling topics such as the role of money in trade-balance stability and the monetary theoretic foundation of the modern monetary approach to the balance of payments, as well as the diffusion of reserves and the money supply multiplier. Comprised of 17 chapters, this volume begins by providing a background to the development of Tsiang's thinking on monetary theory and why he objected to the Keynesian stock equilibrium approach to money. The reader is then introduced to speculation and income stability; misconceptions in monetary theory and their influences on financial and banking practices; and liquidity preference in general equilibrium analysis. Subsequent chapters deal with the optimum supply of money; the total inadequacy of "Keynesian" balance of payments theory; and the rationale of the mean-standard deviation analysis, skewness preference, and the demand for money. This book will be a useful resource for practitioners interested in economic theory, econometrics, and mathematical economics.

The Historical Development of Quantum Theory Mar 01 2020

Economic Review Jun 15 2021

Sraffa and the Reconstruction of Economic Theory: Volume Two Mar 25 2022 Written on the occasion of the 50th anniversary of the publication of Piero Sraffa's Production of Commodities by Means of Commodities, the papers selected and contained in Sraffa and the Reconstruction of Economic Theory account for the work completed around the two central aspects of his contribution to economic analysis, namely the criticism of the neoclassical (or marginalist) theory of value and distribution, and the reconstruction of economic theory along the lines of the Classical approach. Divided into three volumes, Sraffa and the Reconstruction of Economic Theory debates the most fruitful routes for advancement in this field and their implications for applied and policy analysis. This second volume focuses on the theory of output and growth as developed in the modern classical approach on the basis of the extension to the long run of the Keynesian principle of effective demand, and on the implications of the revival of the classical approach for policy analysis and for understanding the evolution of the international economic order in the last few decades.

Decision Theory and Choices: a Complexity Approach Dec 22 2021 In economics agents are assumed to choose on the basis of rational calculations aimed at the maximization of their pleasure or profit. Formally, agents are said to manifest transitive and consistent preferences in attempting to maximize their utility in the presence of several constraints. They operate according to the choice imperative: given a set of alternatives, choose the best. This imperative works well in a static and simplistic framework, but it may fail or vary when 'the best' is changing continuously. This approach has been questioned by a descriptive approach that springing from the complexity theory tries to give a scientific basis to the way in which individuals really choose, showing that those models of human nature is routinely falsified by experiments since people are neither selfish nor rational. Thus inductive rules of thumb are usually implemented in order to make decisions in the presence of incomplete and heterogeneous information sets.

Paper Sep 26 2019

Collected Papers on Monetary Theory Feb 09 2021 One of the outstanding monetary theorists of the past 100 years, Lucas revolutionized our understanding of how money interacts with the real economy of production, consumption, and exchange. These 21 papers, published 1972–2007, cover core monetary theory and public finance, asset pricing, and the real effects of monetary instability.

Inflation Theory-anti-in/h May 15 2021 The conference that is recorded in this volume derived its initial impetus and choice of subject from the Jubilee of the Swedish Riksbank which was being celebrated in 1975. AJ part of that celebration, the International Economic Association was invited to organise a conference on the very topical subject of inflation-a subject of great concern to the banking community in all countries-and the Riksbankens Jubileumsfund bore the largest share of its expenses. We are greatly indebted to Mr Kristen Rickman, Governor of the Sviriges Riksbank, for his interest and support in all the work of the con-ference.

Uniform Federal Product Liability Law Nov 28 2019

Annual Reports of the War Department Jan 29 2020

Post-Keynesian Growth Theory Jun 23 2019 Post-Keynesian Growth Theory is a collection of 18 articles by Marc Lavoie, published between 1995 and 2020, with an extended foreword by Eckhard Hein. Marc Lavoie's introduction recalls how he became attracted to the post-Keynesian theory of growth more than 45 years ago and explains how and why this book came about.

Telecommunications Demand in Theory and Practice Aug 18 2021 Telecommunications Demand in Theory and Practice, which builds upon the author's seminal 1980 book, Telecommunications Demand: A Review and Critique, provides comprehensive analyses of the determinants and structure of telecommunications demands in the United States and Canada. Theory and empirical application receive equal emphasis with a heavy focus on the developments and econometric research since the divestiture of AT&T in 1984. For the first time, a detailed theoretical analysis of business telecommunications demand on subscriber and usage consumption externalities is presented. Telecommunications Demand in Theory and Practice is without peer in the documentation and analysis of price elasticities of demand for telecommunications services. This new book also includes a comprehensive bibliography with over 500 entries related to telecommunications demand and pricing. Telecommunications Demand will appeal to both academic and consulting economists, telecommunications industry analysts and regulators, and to teachers of courses in applied econometrics and regulated industries.

Simulation of Information and Decision Systems in the Firm Jul 25 2019

A Brief Prehistory of the Theory of the Firm Jul 05 2020 The theory of the firm did not exist, in any serious manner, until around 1970. Only then did the current theory of the firm literature begin to emerge, based largely upon the work of Ronald Coase and to a lesser degree Frank Knight. It was work by Armen Alchian, Robert Crawford, Harold Demsetz, Michael Jensen, Benjamin Klein, William Meckling and Oliver Williamson, among others, that drove the upswing in interest in the firm among mainstream economists. This accessible book provides a valuable overview of the 'prehistory' of the firm. Spanning an impressive timeline, it delves into Antiquity, the Medieval era, the pre-classical economics period and the 19th and 20th centuries. Next, the book traces the theoretical contributions from pre-classical, classical and

neoclassical economics. It will be illuminating reading for students and researchers of the history of economic thought, industrial organization, microeconomic theory and business history.

Density-Functional Theory of Atoms and Molecules Sep 30 2022 Provides an account of the fundamental principles of the density-functional theory of the electronic structure of matter and its applications to atoms and molecules. This book contains a discussion of the chemical potential and its derivatives. It is intended for physicists, chemists, and advanced students in chemistry.

The Clinical Assessment of Children and Adolescents Jun 03 2020 This book highlights assessment techniques, issues, and procedures that appeal to practicing clinicians. Rather than a comprehensive Handbook of various tests and measures, The Clinical Assessment of Children and Adolescents is a practitioner-friendly text that provides guidance for test selection, interpretation, and application. With topics ranging from personality assessment to behavioral assessment to the assessment of depression and thought disorder, the leaders in the field of child and adolescent measurement outline selection and interpretation of measures in a manner that is most relevant to clinicians and graduate students. Each chapter makes use of extensive case material in order to highlight issues of applicability.

Quantum Theory at the Crossroads Jun 27 2022 Translation of the Fifth Solvay Congress proceedings, for graduate students and researchers in physics and quantum theory.

Proceedings of the International Conference on Waterlogging and Salinity, [Lahore, October 13-17, 1975] May 03 2020

Working Paper Series Nov 01 2022

The Scientific Letters and Papers of James Clerk Maxwell: Volume 3, 1874-1879 Oct 08 2020 This is a comprehensive edition of Maxwell's manuscript papers published virtually complete and largely for the first time.

Game Theory and Its Application to the Social Sciences Sep 18 2021

Artificial and Mathematical Theory of Computation Nov 08 2020 Artificial and Mathematical Theory of Computation is a collection of papers that discusses the technical, historical, and philosophical problems related to artificial intelligence and the mathematical theory of computation. Papers cover the logical approach to artificial intelligence; knowledge representation and common sense reasoning; automated deduction; logic programming; nonmonotonic reasoning and circumscription. One paper suggests that the design of parallel programming languages will invariably become more sophisticated as human skill in programming and software developments improves to attain faster running programs. An example of metaprogramming to systems concerns the design and control of operations of factory devices, such as robots and numerically controlled machine tools. Metaprogramming involves two design aspects: that of the activity of a single device and that of the interaction with other devices. One paper cites the application of artificial intelligence pertaining to the project "proof checker for first-order logic" at the Stanford Artificial Intelligence Laboratory. Another paper explains why the bisection algorithm widely used in computer science does not work. This book can prove valuable to engineers and researchers of electrical, computer, and mechanical engineering, as well as, for computer programmers and designers of industrial processes.

The Sustainable Development Theory: A Critical Approach, Volume 2 Sep 06 2020 This book explores the present conflictual relationship between the economy, the environment, and society. The current mainstream economic model is analysed from the perspective of the founding economists to review its suitability to tackle issues of sustainable development. The problems of redistribution and social justice are debated at length; alongside those concerning the giant state, degrowth, and a vision of sustainability that is founded on the idea of a self-regulating free market economy. Business cycle sustainability, anti-crisis therapy, technological unemployment, the natural rate of interest, and the Bruntland matrix are also examined. This book aims to present a holistic approach to sustainable development where social, ecological, and economic components are balanced. It will be relevant to students and researchers interested in this topic.

The Joy of Pain Oct 20 2021 Few people will easily admit to taking pleasure in the misfortunes of others. But who doesn't enjoy it when an arrogant but untalented contestant is humiliated on American Idol, or when the embarrassing vice of a self-righteous politician is exposed, or even when an envied friend suffers a small setback? The truth is that joy in someone else's pain-known by the German word schadenfreude--permeates our society. In The Joy of Pain, psychologist Richard Smith, one of the world's foremost authorities on envy and shame, sheds much light on a feeling we dare not admit. Smith argues that schadenfreude is a natural human emotion, one worth taking a closer look at, as it reveals much about who we are as human beings. We have a passion for justice. Sometimes, schadenfreude can feel like getting one's revenge, when the suffering person has previously harmed us. But most of us are also motivated to feel good about ourselves, Smith notes, and look for ways to maintain a positive sense of self. One common way to do this is to compare ourselves to others and find areas where we are better. Similarly, the downfall of others--especially when they have seemed superior to us--can lead to a boost in our self-esteem, a lessening of feelings of inferiority. This is often at the root of schadenfreude. As the author points out, most instances of schadenfreude are harmless, on par with the pleasures of light gossip. Yet we must also be mindful that envy can motivate, without full awareness, the engineering of the misfortune we delight in. And envy-induced aggression can take us into dark territory indeed, as Smith shows as he examines the role of envy and schadenfreude in the Nazi persecution of the Jews. Filled with engaging examples of schadenfreude, from popular reality shows to the Duke-Kentucky basketball rivalry, The Joy of Pain provides an intriguing glimpse into a hidden corner of the human psyche.

The Weekly Review Dec 10 2020

Toward a General Theory of Exchange Apr 01 2020 The new economy, under the impetus of the ever-widening outreach of the Internet, is undergoing a transition. In the meantime, there's also been a shift to the information paradigm, with its emphasis on lack of foresight. These processes have almost completely supplanted the concept of market that was once one of the most cardinal features of conventional economic theory. In Toward a General Theory of Exchange: Strategic Decisions and Complexity, author Dr. Javaid R. Khwaja traces the slow melting of the market, the most ubiquitous contraption and the summum bonum of economic science, as an organized manifestation of complexity, with its wide-ranging impact on the flow of funds. Using the historical background of economic theories, this study blends the interdisciplinary range and fills the vacuum that has existed among current conventional economic theory, the theory of strategic decision making, actor-network theory, the domain of law and economics, and the science of complexity. An

observer of economic development for several decades, Khwaja shows the relationship between technology and economics and how it affects social exchanges and trends.

CEPR Publication Aug 30 2022

CONCUR 2007 - Concurrency Theory Dec 30 2019 This volume constitutes the refereed proceedings of the 17th International Conference on Concurrency Theory. Thirty full papers are presented along with three important invited papers. Each of these papers was carefully reviewed by the editors. Topics include model checking, process calculi, minimization and equivalence checking, types, semantics, probability, bisimulation and simulation, real time, and formal languages.

Macroeconomic Theory and Macroeconomic Pedagogy Jan 11 2021 This book aims to showcase and advance recent debates over the extent to which undergraduate macroeconomics teaching models adequately reflect the latest developments in the field. It contains 16 essays on topics including the 3-equation New Consensus model, extensions and alternatives to this model, and endogenous money and finance.

International Relations Theory and the Politics of European Integration Jul 17 2021 International Relations Theory and the Politics of European Integration focuses on the roles of community, power and security, within the European Union. It features contributions from highly respected international scholars, and covers subjects such as: · sovereignty and European integration · the EU and the politics of migration · the internationalisation of military security · the EU as a security actor · money, finance and power · the quest for legitimacy with regards to EU enlargement.

The Macroeconomic Theory of Exchange Rate Crises Feb 21 2022 This book deals with the genesis and dynamics of exchange rate crises in fixed or managed exchange rate systems. It provides a comprehensive treatment of the existing theories of exchange rate crises and of financial market runs. It aims to provide a survey of both the theoretical literature on international financial crises and a systematic treatment of the analytical models. It analyzes a series of macroeconomic models and demonstrates their properties and conclusions, including comparative statics and dynamic behaviour. The models cover the range of phenomena exhibited in modern crises experienced in countries with fixed or managed exchange rate systems. Among the topics covered, beyond currency sustainability, are bank runs, the interaction between bank solvency and currency stability, capital flows and borrowing constraints, uncertainty about government policies, asymmetric information and herding behaviour, contagion across markets and countries, financial markets and asset price bubbles, strategic interaction among agents and equilibrium selection, the dynamics of speculative attacks and of financial crashes in international capital markets. The book is intended for econometricians, academics, policymakers and specialists in the field, and postgraduate students in economics.

Language Description Informed by Theory Nov 20 2021 This volume explores how linguistic theories inform the ways in which languages are described. Theories, as representations of linguistic categories, guide the field linguist to look for various phenomena without presupposing their necessary existence and provide the tools to account for various sets of data across different languages. A goal of linguistic description is to represent the full range of language structures for any given language. The chapters in this book cover various sub-disciplines of linguistics including phonetics, phonology, morphology, syntax, semantics, language acquisition, and anthropological linguistics, drawing upon theoretical approaches such as prosodic Phonology, Enhancement theory, Distributed Morphology, Minimalist syntax, Lexical Functional Grammar, and Kinship theory. The languages described in this book include Australian languages (Pama-Nyungan and non-Pama-Nyungan), Romance languages as well as English. This volume will be of interest to researchers in both descriptive and theoretical linguistics.

Asymptotic Theory of Quantum Statistical Inference Jan 23 2022 ' Quantum statistical inference, a research field with deep roots in the foundations of both quantum physics and mathematical statistics, has made remarkable progress since 1990. In particular, its asymptotic theory has been developed during this period. However, there has hitherto been no book covering this remarkable progress after 1990; the famous textbooks by Holevo and Helstrom deal only with research results in the earlier stage (1960s-1970s). This book presents the important and recent results of quantum statistical inference. It focuses on the asymptotic theory, which is one of the central issues of mathematical statistics and had not been investigated in quantum statistical inference until the early 1980s. It contains outstanding papers after Holevo's textbook, some of which are of great importance but are not available now. The reader is expected to have only elementary mathematical knowledge, and therefore much of the content will be accessible to graduate students as well as research workers in related fields. Introductions to quantum statistical inference have been specially written for the book. Asymptotic Theory of Quantum Statistical Inference: Selected Papers will give the reader a new insight into physics and statistical inference. Contents:Hypothesis TestingQuantum Cramér-Rao Bound in Mixed States ModelQuantum Cramér-Rao Bound in Pure States ModelGroup Symmetric Approach to Pure States ModelLarge Deviation Theory in Quantum EstimationFuther Topics on Quantum Statistical Inference Readership: Graduate students in quantum physics, mathematical physics, and probability and statistics. Keywords:Quantum Information;Estimation Theory;Statistics;Statistical Inference;Mathematical Physics;Asymptotic Theory;Hypothesis TestingReviews:"This book will give the scholars new insight into physics and statistical inference."Zentralblatt MATH '