

Bertrand M. Roehner

# Patterns of Speculation

A Study in  
Observational  
Econophysics

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# Patterns Of Speculation A Study In Observational Econophysics

**Gianfranco Tusset**



## **Patterns Of Speculation A Study In Observational Econophysics:**

*Patterns of Speculation* Bertrand M. Roehner, 2002-05-02 The main objective of this 2002 book is to show that behind the bewildering diversity of historical speculative episodes it is possible to find hidden regularities thus preparing the way for a unified theory of market speculation Speculative bubbles require the study of various episodes in order for a comparative perspective to be obtained and the analysis developed in this book follows a few simple but unconventional ideas Investors are assumed to exhibit the same basic behavior during speculative episodes whether they trade stocks real estate or postage stamps The author demonstrates how some of the basic concepts of dynamical system theory such as the notions of impulse response reaction times and frequency analysis play an instrumental role in describing and predicting speculative behavior This book will serve as a useful introduction for students of econophysics and readers with a general interest in economics as seen from the perspective of physics

**Econophysics and Data Driven Modelling of Market Dynamics** Frédéric Abergel, Hideaki Aoyama, Bikas K. Chakrabarti, Anirban Chakraborti, Asim Ghosh, 2015-01-27 This book presents the works and research findings of physicists economists mathematicians statisticians and financial engineers who have undertaken data driven modelling of market dynamics and other empirical studies in the field of Econophysics During recent decades the financial market landscape has changed dramatically with the deregulation of markets and the growing complexity of products The ever increasing speed and decreasing costs of computational power and networks have led to the emergence of huge databases The availability of these data should permit the development of models that are better founded empirically and econophysicists have accordingly been advocating that one should rely primarily on the empirical observations in order to construct models and validate them The recent turmoil in financial markets and the 2008 crash appear to offer a strong rationale for new models and approaches The Econophysics community accordingly has an important future role to play in market modelling The Econophys Kolkata VIII conference proceedings are devoted to the presentation of many such modelling efforts and address recent developments A number of leading researchers from across the globe report on their recent work comment on the latest issues and review the contemporary literature

**Essentials of Econophysics Modelling** Frantisek Slanina, 2014 This book is a course in methods and models rooted in physics and used in modelling economic and social phenomena It covers the discipline of econophysics which creates an interface between physics and economics Besides the main theme it touches on the theory of complex networks and simulations of social phenomena in general After a brief historical introduction the book starts with a list of basic empirical data and proceeds to thorough investigation of mathematical and computer models Many of the models are based on hypotheses of the behaviour of simplified agents These comprise strategic thinking imitation herding and the gem of econophysics the so called minority game At the same time many other models view the economic processes as interactions of inanimate particles Here the methods of physics are especially useful Examples of systems modelled in such a way include books of stock market orders

and redistribution of wealth among individuals Network effects are investigated in the interaction of economic agents The book also describes how to model phenomena like cooperation and emergence of consensus The book will be of benefit to graduate students and researchers in both Physics and Economics The Story of Econophysics Kishore Chandra Dash,2019-08-22 This book will appeal to the lay reader with an interest in the history of what is today termed Econophysics looking at various works throughout the ages that have led to the emergence of this field It begins with a discussion of the philosophers and scientists who have contributed to this discipline before moving on to considering the contributions of different institutions books journals and conferences in nurturing the subject Econophysics of Agent-Based Models Frédéric Abergel,Hideaki Aoyama,Bikas K. Chakrabarti,Anirban Chakraborti,Asim Ghosh,2013-09-07 The primary goal of this book is to present the research findings and conclusions of physicists economists mathematicians and financial engineers working in the field of Econophysics who have undertaken agent based modelling comparison with empirical studies and related investigations Most standard economic models assume the existence of the representative agent who is perfectly rational and applies the utility maximization principle when taking action One reason for this is the desire to keep models mathematically tractable no tools are available to economists for solving non linear models of heterogeneous adaptive agents without explicit optimization In contrast multi agent models which originated from statistical physics considerations allow us to go beyond the prototype theories of traditional economics involving the representative agent This book is based on the Econophys Kolkata VII Workshop at which many such modelling efforts were presented In the book leading researchers in their fields report on their latest work consider recent developments and review the contemporary literature

Econophysics and Financial Economics Franck Jovanovic,Christophe Schinckus,2017 This book provides the first extensive analytic comparison between models and results from econophysics and financial economics in an accessible and common vocabulary Unlike other publications dedicated to econophysics it situates this field in the evolution of financial economics by laying the foundations for common theoretical framework and models *Econophysics and Capital Asset Pricing* James Ming Chen,2017-10-04 This book rehabilitates beta as a definition of systemic risk by using particle physics to evaluate discrete components of financial risk Much of the frustration with beta stems from the failure to disaggregate its discrete components conventional beta is often treated as if it were atomic in the original Greek sense uncut and indivisible By analogy to the Standard Model of particle physics theory's three generations of matter and the three way interaction of quarks Chen divides beta as the fundamental unit of systemic financial risk into three matching pairs of baryonic components The resulting econophysics of beta explains no fewer than three of the most significant anomalies and puzzles in mathematical finance Moreover the model's three way analysis of systemic risk connects the mechanics of mathematical finance with phenomena usually attributed to behavioral influences on capital markets Adding consideration of volatility and correlation and of the distinct cash flow and discount rate components of systematic risk harmonizes mathematical finance

with labor markets human capital and macroeconomics

From Galileo to Modern Economics Gianfranco

Tusset,2018-09-08 Empirical laws are rare in economics This book describes efforts to anchor economic knowledge to invariant empirical laws It links 17th and 18th century Galilean monetary economists to econophysics a field that emerged in the mid 1990s This virtual journey from past to present is charted by episodes on aggregates and empirical primacy It includes the virtually unknown story of 19th century scholars who by searching for a stricter mathematical approach paved the way to an engineering view of economics Then there are celebrities like Pareto and his first empirical law governing the distribution of wealth Pareto and Amoroso sparked a debate on the skewed distribution that spanned decades ranging from finance to market transformations to econophysics with its concepts and tools inherited from statistical physics The last stage of the journey goes through econophysics and the recent gradual advances it has made which show how its position vis vis economics has been changing

**An Introduction to Socio-Finance** Jørgen Vitting Andersen,Andrzej Nowak,2013-12-11

This introductory text is devoted to exposing the underlying nature of price formation in financial markets as a predominantly sociological phenomenon that relates individual decision making to emergent and co evolving social and financial structures Two different levels of this sociological influence are considered First we examine how price formation results from the social dynamics of interacting individuals where interaction occurs either through the price or by direct communication Then the same processes are revisited and examined at the level of larger groups of individuals In this book models of both levels of socio finance are presented and it is shown in particular how complexity theory provides the conceptual and methodological tools needed to understand and describe such phenomena Accordingly readers are first given a broad introduction to the standard economic theory of rational financial markets and will come to understand its shortcomings with the help of concrete examples Complexity theory is then introduced in order to properly account for behavioral decision making and match the observed market dynamics This book is conceived as a primer for newcomers to the field as well as for practitioners seeking new insights into the field of complexity science applied to socio economic systems in general and financial markets and price formation in particular

**Constraint Programming and Decision Making** Martine

Ceberio,Vladik Kreinovich,2014-01-21 In many application areas it is necessary to make effective decisions under constraints Several area specific techniques are known for such decision problems however because these techniques are area specific it is not easy to apply each technique to other applications areas Cross fertilization between different application areas is one of the main objectives of the annual International Workshops on Constraint Programming and Decision Making Those workshops held in the US El Paso Texas in Europe Lyon France and in Asia Novosibirsk Russia from 2008 to 2012 have attracted researchers and practitioners from all over the world This volume presents extended versions of selected papers from those workshops These papers deal with all stages of decision making under constraints 1 formulating the problem of multi criteria decision making in precise terms 2 determining when the corresponding decision problem is algorithmically

solvable 3 finding the corresponding algorithms and making these algorithms as efficient as possible and 4 taking into account interval probabilistic and fuzzy uncertainty inherent in the corresponding decision making problems The resulting application areas include environmental studies selecting the best location for a meteorological tower biology selecting the most probable evolution history of a species and engineering designing the best control for a magnetic levitation train

Network Models in Economics and Finance Valery A. Kalyagin, Panos M. Pardalos, Themistocles M. Rassias, 2014-09-23

Using network models to investigate the interconnectivity in modern economic systems allows researchers to better understand and explain some economic phenomena This volume presents contributions by known experts and active researchers in economic and financial network modeling Readers are provided with an understanding of the latest advances in network analysis as applied to economics finance corporate governance and investments Moreover recent advances in market network analysis that focus on influential techniques for market graph analysis are also examined Young researchers will find this volume particularly useful in facilitating their introduction to this new and fascinating field Professionals in economics financial management various technologies and network analysis will find the network models presented in this book beneficial in analyzing the interconnectivity in modern economic systems

**Income Distribution Dynamics of Economic Systems** Marcelo Byrro Ribeiro, 2020-03-26 Econophysics has been used to study a range of economic and financial systems This book uses the econophysical perspective to focus on the income distributive dynamics of economic systems It focuses on the empirical characterization and dynamics of income distribution and its related quantities from the epistemological and practical perspectives of contemporary physics Several income distribution functions are presented which fit income data and results obtained by statistical physicists on the income distribution problem The book discusses two separate research traditions the statistical physics approach and the approach based on non linear trade cycle models of macroeconomic dynamics Several models of distributive dynamics based on the latter approach are presented connecting the studies by physicists on distributive dynamics with the recent literature by economists on income inequality As econophysics is such an interdisciplinary field this book will be of interest to physicists economists statisticians and applied

mathematicians **Mechanistic Explanations in Physics and Beyond** Brigitte Falkenburg, Gregor Schiemann, 2019-08-28 This volume offers a broad philosophical discussion on mechanical explanations Coverage ranges from historical approaches and general questions to physics and higher level sciences The contributors also consider the topics of complexity emergence and reduction Mechanistic explanations detail how certain properties of a whole stem from the causal activities of its parts This kind of explanation is in particular employed in explanatory models of the behavior of complex systems Often used in biology and neuroscience mechanistic explanation models have been often overlooked in the philosophy of physics The authors correct this surprising neglect They trace these models back to their origins in physics The papers present a comprehensive historical methodological and problem oriented investigation The contributors also investigate the conditions

for using models of mechanistic explanations in physics The last papers make the bridge from physics to economics the theory of complex systems and computer science This book will appeal to graduate students and researchers with an interest in the philosophy of science scientific explanation complex systems models of explanation in physics higher level sciences and causal mechanisms in science

**Order, Disorder and Criticality** Yuri Holovatch, 2012 This book is the third volume of review papers on advanced problems of phase transitions and critical phenomena following the success of the first two volumes in 2004 and in 2007 Broadly the book aims to demonstrate that the phase transition theory which experienced its OCO golden age OCO during the 70s and 80s is far from over and there is still a good deal of work to be done both at the fundamental level and in respect of applications This volume presents a broad spectrum of problems connected with criticality It covers its theoretical backgrounds analytical approaches and numerical simulations to describe criticality in specific systems ionic fluids diluted magnets polymers as well as phase transitions on complex networks and in the minority game model As the first two volumes this book is based on the review lectures that were given in Lviv Ukraine at the OC Ising lectures OCO OCO a traditional annual workshop on phase transitions and critical phenomena which brings together scientists working in the field with university students and those who are interested in the subject

**Quantum Field Theory for Economics and Finance** B. E. Baaquie, 2018-08-23 This book provides an introduction to how the mathematical tools from quantum field theory can be applied to economics and finance Providing a range of quantum mathematical techniques for designing financial instruments it demonstrates how a range of topics have quantum mechanical formulations from asset pricing to interest rates

*Financial Market Bubbles and Crashes* Harold L. Vogel, 2021-12-17 Economists broadly define financial asset price bubbles as episodes in which prices rise with notable rapidity and depart from historically established asset valuation multiples and relationships Financial economists have for decades attempted to study and interpret bubbles through the prisms of rational expectations efficient markets equilibrium arbitrage and capital asset pricing models but they have not made much if any progress toward a consistent and reliable theory that explains how and why bubbles and crashes evolve and are defined measured and compared This book develops a new and different approach that is based on the central notion that bubbles and crashes reflect urgent short side rationing which means that as such extreme conditions unfold considerations of quantities owned or not owned begin to displace considerations of price

Derivatives Pricing and Modeling Jonathan Batten, Niklas F. Wagner, 2012-07-02 Highlights research in derivatives modelling and markets in a post crisis world across a number of dimensions or themes This book addresses the following main areas derivatives models and pricing model application and performance backtesting and new products and market features

**Driving Forces in Physical, Biological and Socio-economic Phenomena** Bertrand M. Roehner, 2007-05-31 a multi disciplinary 2007 book on network theory for graduate students and researchers in sociology and econophysics

*Risk Management Post Financial Crisis* Jonathan A. Batten, Niklas F. Wagner, 2014-10-03 Risk Management Post Financial

Crisis A Period of Monetary Easing provides further insights into postcrisis developments in the global economic and financial environment including advances in measuring and reporting risk and liquidity Contributions come from leading banks international organisations and worldrenowned universities     Theory of Financial Risk and Derivative Pricing  
Jean-Philippe Bouchaud,Marc Potters,2003-12-11 Risk control and derivative pricing have become of major concern to financial institutions and there is a real need for adequate statistical tools to measure and anticipate the amplitude of the potential moves of the financial markets Summarising theoretical developments in the field this 2003 second edition has been substantially expanded Additional chapters now cover stochastic processes Monte Carlo methods Black Scholes theory the theory of the yield curve and Minority Game There are discussions on aspects of data analysis financial products non linear correlations and herding feedback and agent based models This book has become a classic reference for graduate students and researchers working in econophysics and mathematical finance and for quantitative analysts working on risk management derivative pricing and quantitative trading strategies



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