

AGENT-BASED METHODS IN ECONOMICS AND FINANCE: Simulations in Swarm



Agent Based Methods In Economics And Finance Simulations In Swarm

Matteo Richiardi, Roberto Leombruni



Agent Based Methods In Economics And Finance Simulations In Swarm:

Agent-Based Methods in Economics and Finance Francesco Luna, Alessandro Perrone, 2002 This volume on financial and economic simulations in Swarm marks the continued progress by a group of researchers to incorporate agent based computer models as an important tool within their discipline Swarm promotes agent based computer models as a tool for the study of complex systems A common language is leading to the growth of user communities in specific areas of application Furthermore by providing an organizing framework to guide the development of more problem specific structures and by dealing with a whole range of issues that affect their fundamental correctness and their ability to be developed and reused Swarm has sought to make the use of agent based models a legitimate tool of scientific investigation that also meets the practical needs of investigators within a community Swarm's principal foundation is an object oriented representation of active agents interacting among themselves and with their environment To this base layer it adds its own structures to drive record and portray the events that occur across this world The specific contents of any world however are up to the experimenter to provide either by building them from scratch or by tapping previous contributions This book is notable in assembling a rich array of such contributions which are significant in their own right but which can also be mined to extract the reusable elements in their respective areas of finance and economics It also presents three interesting software additions with tutorials in the form of simple financial and economic applications A Swarm meta language closer to a natural language the use of internet augmented Swarm for experimental economics and a Swarm visual builder will meet the challenges launched by other agent based modelling competitors The Swarm community at large can benefit greatly from the lead that the growing field of computational economics is taking to address its own needs as represented by the

Agent-Based Methods in Economics and Finance Francesco Luna, Alessandro Perrone, 2012-12-06 This second book on financial and economic simulations in Swarm marks the continued progress by a group of researchers to incorporate agent based computer models as an important tool within their discipline It is encouraging to see such a clear example of Swarm helping to foster a community of users who rely on the Swarm framework for their own analyses Swarm aims at legitimizing agent based computer models as a tool for the study of complex systems A further goal is that a common base framework will lead to the growth of user communities in specific areas of application By providing an organizing framework to guide the development of more problem specific structures and by dealing with a whole range of issues that affect their fundamental correctness and their ability to be developed and reused Swarm has sought to make the use of agent based models a legitimate tool of scientific investigation that also meets the practical needs of investigators within a community *New Tools of Economic Dynamics* Jacek Leskow, Martin Puchet, Lionello F. Punzo, 2006-05-06 *New Tools of Economic Dynamics* gives an introduction and overview of recently developed methods and tools most of them developed outside economics to deal with the qualitative analysis of economic dynamics It reports the results of a three year research project by a European

and Latin American network on the intersection of economics with mathematical statistical and computational methods and techniques Focusing upon the evolution and manifold structure of complex dynamic phenomena the book reviews and shows applications of a variety of tools such as symbolic and coded dynamics interacting agents models microsimulation in econometrics large scale system analysis and dynamical systems theory It shows the potential of a comprehensive analysis of growth fluctuations and structural change along the lines indicated by pioneers like Harrod Haavelmo Hicks Goodwin Morishima and it highlights the explanatory power of the qualitative approach they initiated

The Oxford Handbook of Computational Economics and Finance Shu-Heng Chen, Mak Kaboudan, Ye-Rong Du, 2018 The Oxford Handbook of Computational Economics and Finance provides a survey of both the foundations of and recent advances in the frontiers of analysis and action It is both historically and interdisciplinarily rich and also tightly connected to the rise of digital society It begins with the conventional view of computational economics including recent algorithmic development in computing rational expectations volatility and general equilibrium It then moves from traditional computing in economics and finance to recent developments in natural computing including applications of nature inspired intelligence genetic programming swarm intelligence and fuzzy logic Also examined are recent developments of network and agent based computing in economics How these approaches are applied is examined in chapters on such subjects as trading robots and automated markets The last part deals with the epistemology of simulation in its trinity form with the integration of simulation computation and dynamics Distinctive is the focus on natural computationalism and the examination of the implications of intelligent machines for the future of computational economics and finance Not merely individual robots but whole integrated systems are extending their immigration to the world of Homo sapiens or symbiogenesis

Frontiers of Engineering National Academy of Engineering, 2007-02-08 This volume includes 15 papers from the National Academy of Engineering's 2006 U S Frontiers of Engineering USFOE Symposium held in September 2006 USFOE meetings bring together 100 outstanding engineers ages 30 to 45 to exchange information about leading edge technologies in a range of engineering fields The 2006 symposium covered four topic areas intelligent software systems and machines the nano bio interface engineering personal mobility for the 21st century and supply chain management A paper by dinner speaker Dr W Dale Compton Lillian M Gilbreth Distinguished Professor of Industrial Engineering Emeritus is also included The papers describe leading edge research on commercializing auditory neuroscience future developments in bionanotechnology sustainable urban transportation and managing disruptions to supply chains among other topics Appendixes include information about contributors the symposium program and a list of meeting participants This is the twelfth volume in the USFOE series

Industry And Labor Dynamics: The Agent-based Computational Economics Approach - Proceedings Of The Wild@ace 2003 Workshop Matteo Richiardi, Roberto Leombruni, 2004-11-22 This book presents the contributions to the first Wild Ace conference The acronym stands for Workshop on Industrial and Labor Dynamics The Agent Based Computational Approach and it has been the first

event ever focusing on the very promising use of the agent based simulation approach for investigation of labor economics and industrial organization issues Agent based models are computer models in which a multitude of agents each embodied in a specific software code interact These agents can represent individuals households firms institutions etc Moreover special agents can be added to observe and monitor individual and collective behavior One of the main purpose of writing an ACE model is to gain intuitions on the two way feedback between the microstructure and the macrostructure of a phenomenon of interest How is it that simple aggregate regularities may arise from individual disorder Or that a nice structure at an individual level may lead to a complete absence of regularity in the aggregate How is it that the complex interaction of very simple individuals may lead to surprisingly complicated aggregate dynamics Or that sophisticated agents may be unable to organize themselves in any interesting way The book includes contributions by some of the most distinguished researchers in the field such as the economists Alan Kirman Giovanni Dosi Leigh Tesfatsion and Mauro Gallegati and the sociologist Nigel Gilbert

Handbook of Research on Nature-Inspired Computing for Economics and Management Rennard, Jean-Philippe, 2006-09-30 This book provides applications of nature inspired computing for economic theory and practice finance and stock market manufacturing systems marketing e commerce e auctions multi agent systems and bottom up simulations for social sciences and operations management Provided by publisher

The Rational Expectation Hypothesis, Time-Varying Parameters and Adaptive Control Marco P. Tucci, 2012-12-06 One of the major controversies in macroeconomics over the last 30 years has been that on the effectiveness of stabilization policies However this debate between those who believe that this kind of policies is useless if not harmful and those who argue in favor of it has been mainly theoretical so far The Rational Expectation Hypothesis Time Varying Parameters and Adaptive Control wants to represent a step toward the construction of a common ground on which to empirically compare the two beliefs and to do this three strands of literature are brought together The first strand is the research on time varying parameters TVP the second strand is the work on adaptive control and the third one is the literature on linear stationary models with rational expectations RE The material presented in The Rational Expectation Hypothesis Time Varying Parameters and Adaptive Control is divided into two parts Part 1 combines the strand of literature on adaptive control with that on TVP It generalizes the approach pioneered by Tse and Bar Shalom 1973 and Kendrick 1981 and one recently used in Amman and Kendrick 2002 where the law of motion of the TVP and the hyperstructural parameters are assumed known to the case where the hyperstructural parameters are assumed unknown Part 2 is devoted to the linear single equation stationary RE model estimated with the error in variables EV method It presents a new formulation of this problem based on the use of TVP in an EV model This new formulation opens the door to a very promising development All the theory developed in the first part to control a model with TVP can sic et simpliciter be applied to control a model with RE

Behavioral Computational Social Science Riccardo Boero, 2015-09-28 This book is organized in two parts the first part introduces the reader to all the concepts

tools and references that are required to start conducting research in behavioral computational social science The methodological reasons for integrating the two approaches are also presented from the individual and separated viewpoints of the two approaches The second part of the book presents all the advanced methodological and technical aspects that are relevant for the proposed integration Several contributions which effectively merge the computational and the behavioral approaches are presented and discussed throughout

Multi-Agent Systems and Applications IV Michal Pechoucek, Paolo Petta, Laszlo Zolt Varga, 2005-10-03 The aim of the CEEMAS conference series is to provide a biennial forum for the presentation of multi agent research and development results With its particular geographical orientation towards Central and Eastern Europe CEEMAS has become an internationally recognised event with participants from all over the world After the successful CEEMAS conferences in St Petersburg 1999 Cracow 2001 and Prague 2003 the 2005 CEEMAS conference takes place in Budapest The programme committee of the conference series consists of established researchers from the region and renowned international colleagues showing the prominent rank of CEEMAS among the leading events in multi agent systems In the very competitive field of agent oriented conferences and workshops nowadays such as AAMAS, WI-IAT, EUMAS, CIA, MATES the special profile of CEEMAS is that it is trying to bridge the gap between applied research achievements and theoretical research activities Our ambition is to provide a forum for presenting theoretical research with an evident application potential implemented application prototypes and their properties as well as industrial case studies of successful but also unsuccessful agent technology deployments This is why the CEEMAS proceedings volume provides a collection of research and application papers The technical research paper section of the proceedings see pages 11-499 contains pure research papers as well as research results in application settings while the application papers section see pages 500-530 contains papers focused on application aspects The goal is to demonstrate the real life value and commercial reality of multi agent systems as well as to foster communication between academia and industry in this field

Quantitative Economic Policy Reinhard Neck, Christian Richter, Peter Mooslechner, 2008-03-04 Econometric techniques and models are still being extensively used in the business of forecasting and policy advice This book presents recent advances in the theory and applications of quantitative economic policy with particular emphasis on fiscal and monetary policies in a European and global context The volume honors Andrew Hughes Hallett a pioneer and major scientist in quantitative economic policy analysis whose contributors are among his friends and former students

Conflict and Cooperation A. Allan Schmid, 2008-04-15 Allan Schmid's innovative text Conflict and Cooperation Institutional and Behavioral Economics investigates the rules of the game how institutions both formal and informal affect these rules and how these rules are changed to serve competing interests This text addresses both formal and informal institutions and the impact of alternative institutions as well as institutional change and evolution With its broad applications and numerous practice and discussion questions this book will be appealing not only to students of economics but also to those studying sociology law and political

science Addresses formal and informal institutions the impact of alternative institutions and institutional change and evolution Presents a framework open to changing preferences bounded rationality and evolution Explains how to form empirically testable hypotheses using experiments case studies and econometrics Includes numerous practice and discussion questions

Industry and Labor Dynamics Roberto Leombruni, Matteo Richiardi, 2004 This book presents the contributions to the first Wild Ace conference The acronym stands for Workshop on Industrial and Labor Dynamics The Agent Based Computational Approach and it has been the first event ever focusing on the very promising use of the agent based simulation approach for investigation of labor economics and industrial organization issues Agent based models are computer models in which a multitude of agents each embodied in a specific software code interact These agents can represent individuals households firms institutions etc Moreover special agents can be added to observe and monitor individual and collective behavior One of the main purpose of writing an ACE model is to gain intuitions on the two way feedback between the microstructure and the macrostructure of a phenomenon of interest How is it that simple aggregate regularities may arise from individual disorder Or that a nice structure at an individual level may lead to a complete absence of regularity in the aggregate How is it that the complex interaction of very simple individuals may lead to surprisingly complicated aggregate dynamics Or that sophisticated agents may be unable to organize themselves in any interesting way The book includes contributions by some of the most distinguished researchers in the field such as the economists Alan Kirman Giovanni Dosi Leigh Tesfatsion and Mauro Gallegati and the sociologist Nigel Gilbert

Nonlinear Dynamics and Heterogeneous Interacting Agents Thomas Lux, Stefan Reitz, Eleni Samanidou, 2006-06-06 Economic application of nonlinear dynamics microscopic agent based modelling and the use of artificial intelligence techniques as learning devices of boundedly rational actors are among the most exciting interdisciplinary ventures of economic theory over the past decade This volume provides us with a most fascinating series of examples on complexity in action exemplifying the scope and explanatory power of these innovative approaches

Individual-based Modeling and Ecology Volker Grimm, Steven F. Railsback, 2013-11-28 Individual based models are an exciting and widely used new tool for ecology These computational models allow scientists to explore the mechanisms through which population and ecosystem ecology arises from how individuals interact with each other and their environment This book provides the first in depth treatment of individual based modeling and its use to develop theoretical understanding of how ecological systems work an approach the authors call individual based ecology Grimm and Railsback start with a general primer on modeling how to design models that are as simple as possible while still allowing specific problems to be solved and how to move efficiently through a cycle of pattern oriented model design implementation and analysis Next they address the problems of theory and conceptual framework for individual based ecology What is theory That is how do we develop reusable models of how system dynamics arise from characteristics of individuals What conceptual framework do we use when the classical differential equation framework no

longer applies An extensive review illustrates the ecological problems that have been addressed with individual based models The authors then identify how the mechanics of building and using individual based models differ from those of traditional science and provide guidance on formulating programming and analyzing models This book will be helpful to ecologists interested in modeling and to other scientists interested in agent based modeling

Endothelial Biomedicine William C. Aird, 2007-09-03 The endothelium the cell layer that forms the inner lining of blood vessels is a spatially distributed system that extends to all areas of the human body Clinical and basic research demonstrates that the endothelium plays a crucial role in mediating homeostasis and is involved in virtually every disease either as a primary determinant of pathophysiology or as a victim of collateral damage The endothelium has remarkable though largely untapped diagnostic and therapeutic potential This volume bridges the bench to bedside gap in endothelial biomedicine advancing research and development and improving human health The book is the first to systematically integrate knowledge about the endothelium from different organ specific disciplines including neurology pulmonary cardiology gastroenterology rheumatology infectious disease hematology oncology nephrology and dermatology It s interdisciplinary approach which draws on expertise from such diverse fields as evolutionary biology comparative biology molecular and cell biology mathematical modeling and complexity theory translational research and clinical medicine

Rethinking Macroeconomics with Endogenous Market Structure Marco Mazzoli, Matteo Morini, Pietro Terna, 2019-12-19 The last decade has seen a lively debate in macroeconomics with an increasing criticism on the model that seemed to be dominant in literature since the end of the 1990 s the Dynamic Stochastic General Equilibrium DSGE hereafter and consequently the birth of some new theoretical approaches and methodologies

Cognitive Developments in Economics Salvatore Rizzello, 2003-06-26 This book proposes an interdisciplinary approach to the study of human problem solving choice decision making and change to explain economic transactions and the nature and evolution of organisations and institutions

Software Engineering Education in the Modern Age Paola Inverardi, Mehdi Jazayeri, 2006-12-15 This tutorial book presents an augmented selection of the material presented at the Software Engineering Education and Training Track at the International Conference on Software Engineering ICSE 2005 held in St Louis MO USA in May 2005 The 12 tutorial lectures presented cover software engineering education state of the art and practice creativity and rigor challenges for industries and academia as well as future directions

Agent-Mediated Electronic Commerce. Designing Trading Strategies and Mechanisms for Electronic Markets Esther David, Kate Larson, Alex Rogers, Onn Shehory, Sebastian Stein, 2012-10-10 This volume contains 9 thoroughly refereed and revised papers detailing recent advances in research on designing trading agents and mechanisms for agent mediated e commerce They were originally presented at the 12th International Workshop on Agent Mediated Electronic Commerce AMEC 2010 collocated with AAMAS 2010 in Toronto Canada or the 2010 Workshop on Trading Agent Design and Analysis TADA 2010 collocated with EC 2010 in Cambridge MA USA The papers examine emerging topics such as ad auctions and

supply chains or the interactions between competing markets and present novel algorithms and rigorous theoretical results
Several of them evaluate their results using real data from large e commerce sites or from experiments with human traders

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