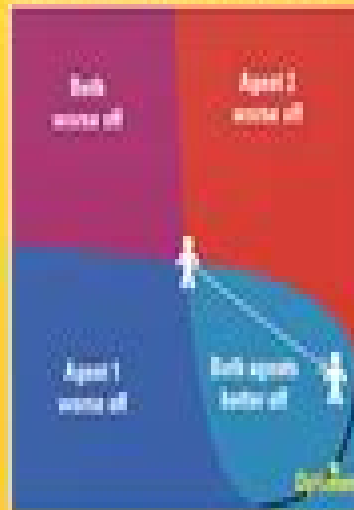


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Introduction to Agent-Based Economics Mauro Gallegati, Antonio Palestrini, Alberto Russo, 2017-08-03 Introduction to Agent Based Economics describes the principal elements of agent based computational economics ACE It illustrates ACE s theoretical foundations which are rooted in the application of the concept of complexity to the social sciences and it depicts its growth and development from a non linear out of equilibrium approach to a state of the art agent based macroeconomics The book helps readers gain a better understanding of the limits and perspectives of the ACE models and their capacity to reproduce economic phenomena and empirical patterns Reviews the literature of agent based computational economics Analyzes approaches to agents expectations Covers one of the few large macroeconomic agent based models the Modellaccio Illustrates both analytical and computational methodologies for producing tractable solutions of macro ACE models Describes diffusion and amplification mechanisms Depicts macroeconomic experiments related to ACE implementations

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

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

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