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Collana	Lecture Notes in Economics and Mathematical Systems, , 2196-9957 ; ; 676
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Soggetti	Econometrics Computer engineering Computer networks Social sciences - Data processing System theory Quantitative Economics Computer Engineering and Networks Computer Application in Social and Behavioral Sciences Complex Systems
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Does Collaboration Pay?- Why Do Firms Exist?- The "Win-Continue, Lose-Reverse" Rule in Cournot Oligopolies -- Organizational Change for Its Own Sake?- Best Practices in Programming Agent-Based Models in Economics and Finance -- Building Artificial Economies -- Spontaneous Segregation of Agents Across Double Auction Markets -- The J-Curve and Transaction Taxes -- Insights from an Artificial Stock Market -- What Is the Impact of Heterogeneous Knowledge About Fundamentals on Market Liquidity and Efficiency -- An Agent Based Propagation Model of Bank Failures -- Direct vs. Side Effects in Financial Contagion -- Saudis and Expats - an Agent-Based Model of the Saudi Arabian Labor Market -- Forbidding Fixed Duration Contracts -- Shadow Economy and Wealth Distribution -- Distribution Effects of Extortion Racket Systems -- Impacts on Stability of Interdependencies

Between Markets in a Cobweb Model -- Detecting Key Variables in System Dynamics Modelling by Using Social Network Metrics -- Trade-in Programs in the Context of Technological Innovation with Herding -- Evaluating Scenarios for Upgrading Sustainability of the Meat Supply Chain.

Sommario/riassunto

The book presents a peer-reviewed collection of papers presented during the 10th issue of the Artificial Economics conference, addressing a variety of issues related to macroeconomics, industrial organization, networks, management and finance, as well as purely methodological issues. The field of artificial economics covers a broad range of methodologies relying on computer simulations in order to model and study the complexity of economic and social phenomena. The grounding principle of artificial economics is the analysis of aggregate properties of simulated systems populated by interacting adaptive agents that are equipped with heterogeneous individual behavioral rules. These macroscopic properties are neither foreseen nor intended by the artificial agents but generated collectively by them. They are emerging characteristics of such artificially simulated systems.
