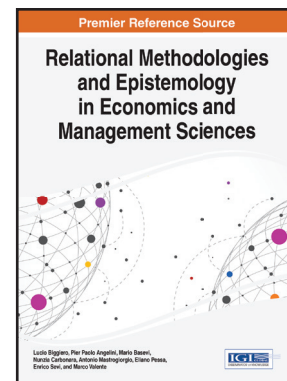


Relational Methodologies and Epistemology in Economics and Management Sciences

Part of the Advances in Finance, Accounting, and Economics (AFAE) Book Series

Lucio Biggiero (Università dell' Aquila, Italy), Pier Paolo Angelini (Interuniversity Research Centre for Sustainable Development (CIRPS), Italy), Mario Basevi (Italian National Institute of Statistics, Italy), Nunzia Carbonara (Politecnico di Bari, Italy), Antonio Mastrogiorgio (Interuniversity Research Centre for Sustainable Development (CIRPS), Italy), Eliano Pessa (University of Pavia, Italy), Enrico Sevi (Università dell' Aquila, Italy) and Marco Valente (Università dell' Aquila, Italy)



Description:

The social sciences, especially economics, management, and organizational science, are experiencing a tremendous renewed interest for their epistemological and methodological statutes, as witnessed by the many books and specialized journals established during the last two decades.

Relational Methodologies and Epistemology in Economics and Management Sciences

identifies and presents the four main network-based methodologies including network analysis, Boolean network simulation modeling, artificial neural network simulation modeling, and agent-based simulation modeling in addition to their conceptual-epistemological implications and concrete applications within the social and natural sciences.

Readers:

Featuring a critical assessment of relational methodologies and their practical applications, this timely publication is ideal for use by corporate R&D departments, researchers, theorists, and graduate-level students.

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Topics Covered:

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Lucio Biggiero is Coordinator of the MEFORM Unit (Formal and Computational Methods for Research and Experimentation in Natural and Social Sciences) at CIRPS, and member of various scientific associations and wrote papers on several journals, and contributed to various books into the fields of economics and management sciences. His main interests are in the following fields: innovation diffusion in inter-firm networks and in industrial clusters; knowledge creation and transfer in R&D collaboration networks; local development and regional systems; international trade and global production networks; (inter-)organizational design theory and methods; coordination theory; socio-cognitive aspects of organizational behaviour; behavioural theory of decision making and cognitive bias; organizational consequences of computer-mediated communication; methodology and epistemology of economics and management sciences. He applies the following main methodologies: economic and social network analysis; dynamic network analysis; agent-based simulation models; statistical and multivariate data analysis; structural equation modelling; outranking methods in multi-criteria decision making.

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Network Analysis for Economics and Management Studies

Lucio Biggiero (University of L'Aquila, Italy & CIRPS, Italy)

Chapter 2

NK Simulation Modeling

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Chapter 3

Neural Network Models:

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Chapter 4

Agent-Based Simulation Modeling:

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A Comparison between International Trade and R&D Collaboration Networks in the European Aerospace Sector

Pier Paolo Angelini (Interuniversity Research Centre for Sustainable Development (CIRPS), Italy)

Lucio Biggiero (University of L'Aquila, Italy & CIRPS, Italy)

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Chapter 14

Knowledge-Driven Agglomeration Processes:

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