1. Record Nr. UNINA9910826435803321 Computational analysis of firms' organization and strategic behaviour / **Titolo** / edited by Edoardo Mollona Pubbl/distr/stampa New York:,: Routledge,, 2010 **ISBN** 1-136-95995-5 1-282-78178-2 9786612781780 0-203-85009-2 Descrizione fisica 1 online resource (349 p.) Collana Routledge research in organizational behaviour and strategy::6 MollonaEdoardo <1967-> Altri autori (Persone) Disciplina 302.3/50113 Soggetti Strategic planning - Computer simulation Social sciences - Computer simulation Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Book Cover; Title; Copyright; Contents; Figures and Boxes; Tables; Preface; Part I Why and How: Using Computer Simulation for Theory Development in Social Sciences; 1 The Use of Computer Simulation in Strategy and Organization Research; 2 Computational Modeling and Social Theory-The Dangers of Numerical Representation; 3 Devices for Theory Development: Why Using Computer Simulation If Mathematical Analysis Is Available?; 4 Mix, Chain and Replicate-Methodologies for Agent-Based Modeling of Social Systems; Part II Computer Simulation for Theory Development in Strategy and Organization Theory 5 The Dynamics of Firm Growth and Resource Sharing in Corporate Diversifi cation6 Revisiting Porter's Generic Strategies for Competitive

Environments Using System Dynamics; 7 Rivalry and Learning among Clustered and Isolated Firms; 8 Organization and Strategy in Banks; 9 Changing Roles in Organizations: An Agent-Based Approach; 10 Rationality Meets the Tribe: Recent Models of Cultural Group Selection: Part III How to Build Agent-Based Computer Models of Firms 11 An Agent-Based Methodological Framework to Simulate Organizations or the Quest for the Enterprise: jES and jESOF, Java Enterprise Simulator and Java Enterprise Simulator Open Foundation12

## Sommario/riassunto

From Petri Nets to ABM: The Analysis of the Enterprise's Process to Model the Firm; Contributors; Index

This book addresses possible applications of computer simulation to theory building in management and organizational theory. The key hypothesis is that modelling and computer simulation provide an environment to develop, test and articulate theoretical propositions. In general, computer simulation provides an experimental environment where researchers are able to play with symbolic representations of phenomena by modifying the model's structure and activating or deactivating model's parameters. This environment allows to both generating hypotheses to expost explain observed phenomena or to