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Pedestrians' Flows During Daytime -- Evacuation Simulation for Large-Scale Urban Population -- Extending Partial-order Planning to Account for Norms in Agent Behavior -- From Threatening Pasts to Hopeful Futures, A Review of Agent-based Models of Anxiety -- Impact of Leader-follower Behavior on Evacuation Performance: An Exploratory Modeling Approach -- Relation Between the Public and the Private and Evolution of Food Sharing -- Towards Eusociality using an Inverse Agent Based Model -- Utilizing the Full Potential of Norms for the Agent's Decision Process -- Validity Assessment of Uncertain Infection Indicators Using Virtual Artificial Society Model -- First Step Towards a New Understanding of Radicalisation: Modeling Identity Fusion -- HUM-e Emotive-Socio-cognitive Agent Architecture for Representing Human Decision-making in the Presence of Fear -- Identity Causes the Polarization: Advancing Hegselmann-Krause Model by Identity Groups -- Influence and Similarity in Social Networks. A Study of the Opinion Dynamics Among Teenagers through an Agent-Based Model -- Networked Models of Social Influence: Explaining Left-right Political landscapes in Europe through opinion dynamics and Network Structure -- Observations on Modeling Social Identity: Suggestions to Address the Challenges of Social Identity -- The Friendship Field - An Agent-based Model on Dyadic Friendship Formation Driven by Social Battery -- The Importance of Dynamic Networks Within a Model of Politics -- An Agent-Based Simulation Model for Crowd Evacuation Based on Bayesian Nash Equilibrium -- An Exploration on Agent-based Simulations and Process Mining -- Collaborative Search and Autonomous Task Allocation in Organizations of Learning Agents -- Controlling Replication via the Belief System in Multi-unit Organizations -- Does a Social Norm of Honesty Influence Reporting Behavior in Participative Budgeting? Combining Laboratory Experiments with Agent-based Modeling -- Elephants in Negative Space: Simulating Regional Innovation Systems in Low Income Countries -- Embedding Social Simulation in the Design of Wine Pricing Policies -- Exploring Credit Relationship Dynamics in an Interbank Market Benefiting from Blockchain-based Distributed Trust:Insights from an Agent-based Model -- Simulating Bounded Rationality in Decision-Making: An Agent-Based Choice Modelling of Vehicle Purchasing -- The Benefits of Coordination in Adaptive Virtual Teams -- The Equity Premium Puzzle: An Application of an Agent-based Evolutionary Model -- An Agent-based Model of UK Farmers' Decision-making on Adoption of Agri-environment Schemes -- Co-Simulation of Socio-Technical Energy Systems: An Interdisciplinary Design Process -- Dynamics of Individual Investments in Heating Technology -- How Beliefs on Food and Climate Change Impact the Dietary Adoption ? An Agent-based Approach -- Public Acceptance of Green Mobility Policies -- Formalising Agent Reasoning – The Paso Doble of Data and Theory -- Model Mechanisms and Behavioral Attractors -- All The Right Moves? Systematically Exploring the Effects of Random Travel in Agent-Based Models -- A Template for Transfer of NetLogo Models to High-performance Computing Environments for Enhanced Real-world Decision-support -- Assessing the Cost of Population Dynamics Design Options in a Microsimulation -- On social Simulation in 4D Relativistic Spacetime.

Sommario/riassunto

This book highlights recent developments in the field of computer simulation and its application to social dynamics and behaviour. It covers latest advancements in the use of agent-based modelling by focusing on thematic issues, methodological progress and applications, including policy, industry and business. It aims to promote this interdisciplinary type of research by showing synergies, complementary and integration especially between computer sciences, social sciences,

economics and organization, often bridging qualitative and quantitative research. The primary audience of this book are academics, practitioners and professionals using computer simulation for business counselling or industry. .