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<b>Soggetti</b>	System theory Computational complexity Mathematical physics Computer simulation Psychology Complex Systems Computational Complexity Computational Physics and Simulations Behavioral Sciences and Psychology
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<b>Nota di contenuto</b>	Part I Public Health: Agent-based Modelling and Public Health: An Introduction to the Proceedings of the 2023 Social Simulation Conference -- Estimating Population Burden of Stroke with an Agent-Based Model -- Crowd Health Encoding, for Crowd Simulations Using the Smoothed Particle Hydrodynamics Computational Method -- Reculer Pour Mieux Sauter: Resurrecting an ABM of Household Budgeting and Applying It to Deteriorating Economic Conditions -- Growing populations from the 'bottom-up': an ABM approach to the generation of synthetic populations -- Whole-system pandemic modelling including pathogen evolution -- ABM for simulating the access to elective surgery services: the issue of patient mobility in Italy -- Simple Heuristics as Mental Model for Staple Food Choice: An ABM

Exercise -- Part II Policy Modelling: Policy comparisons and causality in an agent-based model -- Simulations as a Dialogue Tool: Strengthening Community Engagement and Local Democratic Processes -- Gamification and Simulation for Innovation Exploring Investment Decisions in Energy Retrofitting with a Multi-Stage Algorithm: An Agent-Based Model -- Modeling Realistic Human Behavior in Disasters. A Rapid Literature Review of Agent-Based Models reviews -- Towards a social simulation interaction tool for policy makers - a new research agenda to enable usage of more complex social simulations -- A 'Theory of the Middle Range' to Support Food Security and Circular Economy Value Chain Scenario Analysis -- Research Joint Ventures in an R&D Driven Market with Evolving Consumer Preferences: An Evolutionary Multi-Agent Based Modeling Approach -- Aspiration adaptation, poverty, and agricultural management: an agent-based modelling study -- Policy Development for Societal Challenges: The Collaborative Agent Based Modelling Policy Framework -- PANDORA - an agent-based-model to analyze acceptance of (energy) policies, applied to the German heating sector -- Barriers and model curation issues associated with rapid adaptation of empirical legacy ABM in response to urgent policy maker queries -- A Declaration of Social Simulator Rights -- To be or about to become? Moral responsibility within transition to community energy -- Part III Management and Economics: Aspirations Levels in Agent-based Models of Decision-Making in Organizational Contexts Building resilient organizations: The roles of top-down vs. bottom-up organizing -- A comparative analysis of open and closed strategy-making: A simulation study -- Local Sharing and Sociality Effects on Wealth Inequality in a Simple Artificial Society -- Income vs. Demand: Exploring Dynamics of Poverty Lines using Agent-based Modeling -- Modelling Demographic Developments Driven by Housing Market Dynamics -- Part IV Social Influence and Opinion Dynamics: Crowd Health Encoding, for Crowd Simulations Using the Smoothed Particle Hydrodynamics Computational Method Exploring the stepwise process and consequences of identity fusion in different groups: An agent-based model Does a group's size affect the behavior of a crowd? An analysis based on an agent model -- Analyzing the Emergence and Dynamics of Pluralistic Ignorance with Agent-Based Models -- How abstract mechanisms come alive: modelling network path dependence using qualitative data -- Interstellar knowledge dynamics -- The grand challenge of helping people agree and how we might go about collectively tackling it -- Minority Opinion Expression in the Presence of Perceived Majority Dominance -- How Schwartz values influence social networks in the workplace -- Towards a specification of behaviour models for crowds -- Part V Methodology and Theory: Human Simulation to Challenge Human-Aware Robot Navigation -- A Guide to Re-Implementing Agent-based Models: Experiences from the HUMAT Model Dynamic Context-Sensitive Deliberation for Scalability in Realistic Social Simulations -- Thirty years of sense and sensibility in Agent-Based Models: A bibliometric analysis Aspects of Decision-Making in Human-Machine Teaming -- Superstition in the cognitive model: Modelling ritualised behaviour as error management -- Towards Reflective Normative Agents -- The curse of possibilities -- Using Survey Data to develop agent-based models of spatial segregation -- Agent Decision-Making Heterogeneity - Agent (Meta)Frameworks for Agent-Based Modelling.

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#### Sommario/riassunto

This book contains the proceedings of the 18th Social Simulation Conference (SSC) and covers the state of the art of social simulation modeling. The SSC is the annual conference of the European Social

Simulation Association (ESSA) and the major global conference devoted to this topic. It is aimed at promoting social simulation and computational social science. The book is the biggest collection of agent-based modeling research. It covers all aspects of modeling, from theory and philosophy of modeling to question of model design, purpose, and structure, using data, visualization, model interrelation, and open modeling. This book is targeted at researchers in social simulation regardless of disciplinary backgrounds, across career stages and different sectors, such as academia, industry, and policy.

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