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Descrizione fisica	1 online resource (XVIII, 460 p. 133 illus., 107 illus. in color.)
Collana	Advances in Intelligent Systems and Computing, , 2194-5357 ; ; 528
Disciplina	330.015193
Soggetti	Computational intelligence Social sciences Operations research Decision making Computer simulation Computational Intelligence Methodology of the Social Sciences Operations Research/Decision Theory Simulation and Modeling
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"The European Social Simulation Association, founded in 2003, is a scientific society aimed at promoting the development of social simulation research, education of young scientists in the field, and application of social simulation. One of its activities is the organization of an annual conference. From September 14th to 18th in 2015, the 11th Social Simulation Conference was organized in Groningen, the Netherlands."
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	From Field Data to Attitude Formation -- A Simple-to-use BDI architecture for Agent-based Modeling and Simulation -- Food Incident Interactive Training Tool: a serious game for food incident management -- A Cybernetic Model of Macroeconomic Disequilibrium -- How Should Agent-Based Modelling Engage With Historical Processes? -- Evolutionary Cooperation in a Multi-Agent Society -- Design of an

empirical agent-based model to explore rural household food security within a developing country context -- Comparing Income Replacement Rate by Prefecture in Japanese Pension System -- Hybrid simulation approach for technological innovation policy making in developing countries -- Modelling Contextual Decision Making in Dilemma Games -- Preliminary results from an agent-based model of the daily commute in Aberdeen and Aberdeenshire, UK -- Agent-Based Modelling of Military Communications on the Roman Frontier -- The Leviathan model without gossips and vanity: the richness of influence based on perceived hierarchy -- A calibration to properly design a model integrating residential mobility and migration in a rural area -- Modeling Contagion of Behavior in Friendship Networks as Coordination Games -- A Model of Social and Economic Capital in Social Networks -- The Impact of Macro-Scale Determinants on Individual Residential Mobility Behaviour -- Modelling the energy transition: Application of Agent Based Modelling to Integrated Assessment Modelling -- A spatially explicit agent-based model of the diffusion of green electricity: Model setup and retrodictive validation -- A Network Analytic Approach to Investigating a Land-Use Change Agent-Based Model -- Network Influence Effects in Agent-Based Modelling of Civil Violence -- Modeling the evolution of ideological landscapes through opinion dynamics -- Changing Habits using Contextualized Decision Making -- SocialSIM – Real-life social simulation as a field for students’ research projects -- Simulating Thomas Kuhn’s Scientific Revolutions: The Example of the Paradigm Change from System Dynamics to Agent Based Modelling -- Using ABM to clarify and refine social practice theory -- Transition to Low-carbon Economy: Simulating Nonlinearities in the Electricity Market, Navarre Region-Spain -- Statistical Verification of the Multiagent Model of Volatility Clustering on Financial Markets -- Social Amplification of Risk Framework: An Agent-Based Approach -- How precise are the specifications of a psychological theory? Comparing implementations of Lindenberg and Steg’s Goal-Framing Theory of everyday pro-environmental behaviour -- Lessons learned replicating the analysis of outputs from a social simulation of biodiversity incentivisation -- The Pursuit of Happiness: A Model of Group Formation -- Understanding and Predicting Compliance with Safety Regulations at an Airline Ground Service Organization -- Opinions on Contested Infrastructures over Time: A Longitudinal, Empirically-Based Simulation -- Road repair sequencing for disaster victim evacuation -- Using empirical data for designing, calibrating and validating simulation models -- A methodology for simulating synthetic populations for the analysis of socio-technical infrastructures -- Modelling the Individual Process of Career Choice -- Modelling the role of social media at street protests -- AgentBase: Agent Based Modelling in the Browser.

Sommario/riassunto

This book highlights recent developments in the field, presented at the Social Simulation 2015 conference in Groningen, The Netherlands. It covers advances both in applications and methods of social simulation. Societal issues addressed range across complexities in economic systems, opinion dynamics and civil violence, changing mobility patterns, different land-use, transition in the energy system, food production and consumption, ecosystem management and historical processes. Methodological developments cover how to use empirical data in validating models in general, formalization of behavioral theory in agent behavior, construction of artificial populations for experimentation, replication of models, and agent-based models that can be run in a web browser. Social simulation is a rapidly evolving field. Social scientists are increasingly interested in social simulation as

a tool to tackle the complex non-linear dynamics of society. Furthermore, the software and hardware tools available for social simulation are becoming more and more powerful. This book is an important source for readers interested in the newest developments in the ways in which the simulation of social interaction contributes to our understanding and managing of complex social phenomena.
