

1. Record Nr.	UNINA9910254602603321
Titolo	Agent-Based Modeling of Sustainable Behaviors // edited by Amparo Alonso-Betanzos, Noelia Sánchez-Maróño, Oscar Fontenla-Romero, J. Gary Polhill, Tony Craig, Javier Bajo, Juan Manuel Corchado
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-46331-4
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XVII, 257 p. 86 illus., 67 illus. in color.)
Collana	Understanding Complex Systems, , 1860-0832
Disciplina	006.30285436
Soggetti	Social sciences—Data processing Social sciences—Computer programs Game theory Economics - Sociological aspects Artificial intelligence Sustainable development Computational Social Sciences Game Theory, Economics, Social and Behav. Sciences Organizational Studies, Economic Sociology Artificial Intelligence Sustainable Development
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Psychologically Plausible Models in Agent-Based Simulations of Sustainable Behavior -- Modelling Everyday Pro-Environmental Norm Transmission and Diffusion in Workplace Networks -- Empirically-Derived Behavioral Rules in Agent-Based Models Using Decision Trees Learned From Questionnaire Data -- The Implementation of the Theory of Planned Behavior in an Agent-Based Model for Waste Recycling: A Review and a Proposal -- Social Simulations Through an Agent-Based Platform, Location Data and 3D Models -- An Intersection-Centric Auction-Based Traffic Signal Control Framework -- Agentdrive: Agent-Based Simulator for Intelligent Cars and its Application for Development of a Lane-Changing Assistant -- City Parking Allocations as a Bundle of

Society-Aware Deals -- Sustainable Farming Behaviours: an Agent Based Modelling and LCA Perspective -- Agent-Based Simulation of Electricity Markets: Risk Management and Contracts for Difference -- Energy Management in the Smart Grids via Intelligent Storage Systems.

Sommario/riassunto

Using the O.D.D. (Overview, Design concepts, Detail) protocol, this title explores the role of agent-based modeling in predicting the feasibility of various approaches to sustainability. The chapters incorporated in this volume consist of real case studies to illustrate the utility of agent-based modeling and complexity theory in discovering a path to more efficient and sustainable lifestyles. The topics covered within include: households' attitudes toward recycling, designing decision trees for representing sustainable behaviors, negotiation-based parking allocation, auction-based traffic signal control, and others. This selection of papers will be of interest to social scientists who wish to learn more about agent-based modeling as well as experts in the field of agent-based modeling.
