Record Nr. UNINA9910457263603321 Advanced geosimulation models [[electronic resource] /] / editors, **Titolo** Danielle J. Marceau & Itzhak Benenson Pubbl/distr/stampa [Oak Park, III.?], : Bentham eBooks, [2011] **ISBN** 1-60805-222-2 Descrizione fisica 1 online resource (155 p.) Altri autori (Persone) MarceauDanielle J BenensonItzhak Disciplina 910.285 Geography - Simulation methods Soggetti Electronic books. 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 CONTENTS: Foreword: Preface: List of Contributors: 1. Challenges and Perspectives in Geosimulation; 2. Activity Based Variable Grid Cellular Automata for Urban and Regional Modelling; 3. Geographical Vector Agent-Based Simulation for Agricultural Land-Use Modelling: 4. Advances and Techniques for Building 3D Agent-Based Models for Urban Systems; 5. Semantically-Enhanced Virtual Geographic Environments for Multi-Agent Geo-Simulation; 6. Empirical Calibration of Spatially Explicit Agent-Based Models; 7. Geosimulation of Income-Based Urban Residential Patterns 8. Open-Ended Agent-Based Economic EvolutionIndex Sommario/riassunto Geosimulation has recently emerged at the intersection of Geographic Information Science, Complex Systems Theory and Computer Science. Geosimulation aims at understanding the dynamics of complex humandriven spatial systems through the use of spatially explicit computer simulation. The approaches and tools for validating Geosimulation models are especially important for understanding their complex and spatially heterogeneous outcomes. The Ebook presents the recent conceptual and methodological advances achieved in the field. It should

be very useful for scientists and graduate students working