

1. Record Nr.	UNINA9910483244103321
Titolo	Epistemological Aspects of Computer Simulation in the Social Sciences : Second International Workshop, EPOS 2006, Brescia, Italy, October 5-6, 2006, Revised Selected and Invited Papers // edited by Flaminio Squazzoni
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2009
ISBN	3-642-01109-8
Edizione	[1st ed. 2009.]
Descrizione fisica	1 online resource (VIII, 183 p.)
Collana	Lecture Notes in Artificial Intelligence, , 2945-9141 ; ; 5466
Classificazione	CC 7750 DAT 780f SOZ 720f SS 4800 54.72
Altri autori (Persone)	SquazzoniFlaminio
Disciplina	621.395
Soggetti	Logic design Computer science Logic Design Computer Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	EPOS-Epistemological Perspectives on Simulation: An Introduction -- EPOS-Epistemological Perspectives on Simulation: An Introduction -- Invited Papers -- The Epistemologies of Social Simulation Research -- From Simulation to Theory (and Backward) -- Selected Papers -- Talking about ABSS: Functional Descriptions of Models -- What Does Emergence in Computer Simulations? Simulation between Epistemological and Ontological Emergence -- Emergence as an Explanatory Principle in Artificial Societies. Reflection on the Bottom-Up Approach to Social Theory -- Reconstruction Failures: Questioning Level Design -- Narrative Scenarios, Mediating Formalisms, and the Agent-Based Simulation of Land Use Change -- Validation and Verification in Social Simulation: Patterns and Clarification of Terminology -- Validation and Verification of Agent-Based Models in

the Social Sciences -- Abductive Fallacies with Agent-Based Modeling and System Dynamics -- Algorithmic Analysis of Production Systems Used as Agent-Based Social Simulation Models -- The Nature of Noise.

Sommario/riassunto

This volume collects the revised versions of the invited and selected papers that were presented at the Second EPOS—Epistemological Perspectives on Simulation—Workshop, held in Brescia, Italy, in October 2006. EPOS is a bi-annual cross-disciplinary workshop on simulation originally established by Ulrich Frank and Klaus G. Troitzsch, with a first edition held in Koblenz in July 2004. EPOS aims to provide a forum for scholars from various disciplines, such as the social sciences, computer sciences, engineering and natural sciences, who are interested in discussing epistemological aspects of computer simulation across disciplinary boundaries. The common belief behind the workshop is the recognition that the time has come to seriously reflect on epistemological and methodological preconditions, processes and consequences of simulation as a research tool. During the first edition in Koblenz 2004, a number of interesting topics were fully addressed: the link between theory and simulation models, the empirical validation of agent-based models in the natural and the social sciences, the relation between models and truth, as well as the role of stylized facts in evidence-based models. A good cross-disciplinary atmosphere permeated the workshop, making possible the exchange of knowledge and ideas beyond any disciplinary boundary. The first EPOS proceedings were edited by Ulrich Frank and Klaus G. Troitzsch and published in the *Journal of Artificial Societies and Social Simulation*, Vol. 8, No. 4, 2005.
