

1. Record Nr.	UNINA9910141178403321
Titolo	Nonlinearity, complexity and randomness in economics [[electronic resource]] : towards algorithmic foundations for economics / / edited by Stefano Zambelli and Donald A.R. Georg
Pubbl/distr/stampa	Chichester, : John Wiley & Sons, 2012
ISBN	1-283-40462-1 9786613404626 1-118-30044-0 1-118-30042-4
Descrizione fisica	1 online resource (255 p.)
Collana	Surveys of Recent Research in Economics
Altri autori (Persone)	ZambelliStefano GeorgeDonald A. R. <1953->
Disciplina	330.01/519
Soggetti	Economics, Mathematical Econometrics
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	Nonlinearity, Complexity and Randomness in Economics; Contents; Notes on Contributors; 1. Introduction; 2. Towards an Algorithmic Revolution in Economic Theory; 3. An Algorithmic Information-Theoretic Approach to the Behaviour of Financial Markets; 4. Complexity and Randomness in Mathematics: Philosophical Reflections on the Relevance for Economic Modelling; 5. Behavioural Complexity; 6. Bounded Rationality and the Emergence of Simplicity Amidst Complexity; 7. Emergent Complexity in Agent-Based Computational Economics; 8. Non-Linear Dynamics, Complexity and Randomness: Algorithmic Foundations 9. Stock-Flow Interactions, Disequilibrium Macroeconomics and the Role of Economic Policy 10. Equilibrium Versus Market Efficiency: Randomness versus Complexity in Finance Markets; 11. Flexible Accelerator Economic Systems as Coupled Oscillators; 12. Shifting Sands: Non-Linearity, Complexity and Randomness in Economics; Index
Sommario/riassunto	Nonlinearity, Complexity and Randomness in Economics presents a variety of papers by leading economists, scientists, and philosophers

who focus on different aspects of nonlinearity, complexity and randomness, and their implications for economics. A theme of the book is that economics should be based on algorithmic, computable mathematical foundations. Features an interdisciplinary collection of papers by economists, scientists, and philosophersPresents new approaches to macroeconomic modelling, agent-based modelling, financial markets, and emergent complexity**¹**
