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Titolo	Reviews of nonlinear dynamics and complexity . Volume 2 // edited by Heinz Georg Schuster
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Collana	Annual Reviews of Nonlinear Dynamics and Complexity (VCH) ; ; v.2
Altri autori (Persone)	SchusterHeinz Georg <1943->
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Reviews of Nonlinear Dynamics and Complexity; Contents; Preface; List of Contributors; 1 Human Mobility and Spatial Disease Dynamics; 1.1 Introduction and Motivation; 1.2 Quantitative Assessments of Human Mobility; 1.2.1 Preliminary Considerations; 1.2.2 The Lack of Scale in Human Mobility; 1.3 Statistical Properties and Scaling Laws in Multi-Scale Mobility Networks; 1.3.1 Scaling Laws in the Topological Features of Multi-Scale Transportation Networks; 1.4 Spatially Extended Epidemic Models; 1.4.1 Disease Dynamics in a Single Population; 1.4.1.1 The SIS Model; 1.5 Spatial Models 1.5.1 Continuity Limit and Fractional Transport1.5.2 Limiting Cases; References; 2 Stochastic Evolutionary Game Dynamics; 2.1 Game Theory and Evolution; 2.2 The Replicator Dynamics; 2.3 Evolutionary Games in Finite Populations; 2.3.1 Stochastic Evolutionary Game Dynamics; 2.3.2 Fixation Probabilities; 2.3.3 Fixation Times; 2.3.3.1 Unconditional Fixation Time; 2.3.3.2 Conditional Fixation Times; 2.3.4

The Moran Process and Weak Selection; 2.3.5 The Fermi Process; 2.4 From Finite to Infinite Populations (and Back Again); 2.5 Applications; 2.5.1 The Prisoner's Dilemma; 2.5.2 Rock-Paper-Scissors; 2.5.3 Voluntary Public Goods Games; 2.5.4 Punishment; 2.6 Concluding Remarks; References; 3 Dynamic and Topological Interplay in Adaptive Networks; 3.1 Introduction; 3.2 Adaptive Networks: A Definition; 3.2.1 Basic Definitions of Graph Theory; 3.2.2 Dynamic and Evolving Networks; 3.2.3 Adaptive Networks; 3.3 Ubiquity of Adaptive Networks Across Disciplines; 3.4 Robust Self-Organization Toward Criticality in Boolean Networks; 3.5 Adaptive Connection Weights in Coupled Oscillator Networks; 3.5.1 Leadership and the Division of Labor; 3.5.2 Self-Organization Towards Synchronizability; 3.6 Cooperation in Games on Adaptive Networks; 3.6.1 Elevated Levels of Cooperation; 3.6.2 Struggle for Topological Position; 3.7 Dynamics and Phase Transitions in Opinion Formation and Epidemics; 3.7.1 Epidemiological Models; 3.7.2 Opinion Formation; 3.8 Summary, Synthesis and Outlook; 3.8.1 The Four Hallmarks of Adaptive Networks; 3.8.2 Adaptive Networks: Future Impacts; 3.8.3 Towards a Unifying Theory of Adaptive Networks; 3.8.4 Future Challenges; References; 4 Fractal Models of Earthquake Dynamics; 4.1 Introduction; 4.1.1 Earthquake Statistics; 4.1.2 Modeling Earthquake Dynamics; 4.1.3 Fractal Faults; 4.1.3.1 Fractal Geometry of Fault Surfaces; 4.1.3.2 Frequency-Size Distribution of Faults; 4.2 Two-Fractal Overlap Model; 4.2.1 The Model; 4.2.2 Analysis of the Time Series; 4.2.3 The Gutenberg-Richter Law; 4.2.4 The Omori Law; 4.2.5 Temporal Distribution of Magnitudes of an Aftershock Sequence; 4.3 Comparison with Observations; 4.3.1 The Gutenberg-Richter Law; 4.3.2 The Omori Law; 4.3.3 The Temporal Distribution of Aftershock Magnitudes; 4.4 Fiber Bundle Model of Earthquakes; 4.5 Summary and Discussion; C.1 Random Cantor Sets; C.2 Regular Sierpinski Gaskets; C.3 Random Sierpinski Gaskets

Sommario/riassunto

Adopting a cross-disciplinary approach, the review character of this monograph sets it apart from specialized journals. The editor is advised by a first-class board of international scientists, such that the carefully selected and invited contributions represent the latest and most relevant findings.
