

Contents

1	Agent-Based Modeling of Zapping Behavior of Viewers, Television Commercial Allocation, and Advertisement Markets	3
	Hiroyuki Kyan and Jun-ichi Inoue	
2	Agent-Based Modeling of Housing Asset Bubble: A Simple Utility Function Based Investigation	27
	Kausik Gangopadhyay and Kousik Guhathakurta	
3	Urn Model-Based Adaptive Multi-arm Clinical Trials: A Stochastic Approximation Approach	45
	Sophie Laruelle and Gilles Pagès	
4	Logistic Modeling of a Religious Sect Cult and Financial Features .	61
	Marcel Ausloos	
5	Characterizing Financial Crisis by Means of the Three States Random Field Ising Model	83
	Mitsuaki Murota and Jun-ichi Inoue	
6	Themes and Applications of Kinetic Exchange Models: Redux . . .	99
	Asim Ghosh, Anindya S. Chakrabarti, Anjan Kumar Chandra, and Anirban Chakrabarti	
7	Kinetic Exchange Opinion Model: Solution in the Single Parameter Map Limit	131
	Krishanu Roy Chowdhury, Asim Ghosh, Soumyajyoti Biswas, and Bikas K. Chakrabarti	
8	An Overview of the New Frontiers of Economic Complexity	147
	Matthieu Cristelli, Andrea Tacchella, and Luciano Pietronero	
9	Jan Tinbergen’s Legacy for Economic Networks: From the Gravity Model to Quantum Statistics	161
	Tiziano Squartini and Diego Garlaschelli	

10	A Macroscopic Order of Consumer Demand Due to Heterogenous Consumer Behaviors on Japanese Household Demand Tested by the Random Matrix Theory	187
	Yuji Aruka, Yuichi Kichikawa, and Hiroshi Iyetomi	
11	Uncovering the Network Structure of the World Currency Market: Cross-Correlations in the Fluctuations of Daily Exchange Rates . . .	203
	Sitabhra Sinha and Uday Kovur	
12	Systemic Risk in Japanese Credit Network	219
	Hideaki Aoyama	
13	Pricing of Goods with Bandwagon Properties: The Curse of Coordination	229
	Mirta B. Gordon, Jean-Pierre Nadal, Denis Phan, and Viktoriya Semeshenko	
14	Evolution of Econophysics	235
	Kishore C. Dash	
15	Econophysics and Sociophysics: Problems and Prospects	287
	Asim Ghosh and Anindya S. Chakrabarti	
16	A Discussion on Econophysics	299
	Hideaki Aoyama	



<http://www.springer.com/978-3-319-00022-0>

Econophysics of Agent-Based Models

Abergel, F.; Aoyama, H.; Chakrabarti, B.K.; Chakraborti, A.;
Ghosh, A. (Eds.)

2014, VIII, 302 p. 91 illus., Hardcover

ISBN: 978-3-319-00022-0