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Understanding the complex dynamics of financial markets through microsimulation

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Publication date
2011

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Citation for published version (APA):

Qiu, G. (2011). *Understanding the complex dynamics of financial markets through microsimulation*.

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Publications

Journal Publications

- G. Qiu, D. Kandhai, and P. M. A. Sloot, Understanding the Complex Dynamics of Stock Markets through Cellular Automata, *Physical Review E*, 75, 2007, 046116.
- G. Qiu, D. Kandhai, N. F. Johnson, and P. M. A. Sloot, Why Do Options Markets Smile? *Quantitative Finance* (submitted).
- G. Qiu, D. Kandhai, and P. M. A. Sloot, Effects of Heterogeneous Speculative Strategies on the Volatility Smile: A Microsimulation Study (in preparation).
- G. Qiu, D. Kandhai, and P. M. A. Sloot, Exploring Financial Market Complexity through Microsimulation: A Case Study of Option Markets (in preparation).

Conference Proceedings

- G. Qiu, D. Kandhai, and P. M. A. Sloot, Understanding the Volatility Smile through Microsimulation, presented in *Applications of Physics in Financial Analysis*, 2007, Lisbon.
- G. Qiu, D. Kandhai, and P. M. A. Sloot, Modeling Options Markets by Focusing on Active Traders, *Procedia Computer Science: International Conference on Computational Science, ICCS 2010*.