Discrete Dynamics in Nature and Society

Special Issue on
Nonlinear Dynamics in Financial Systems: Advances and Perspectives

Call for Papers

In the recent years, nonlinear dynamics have attracted a rapidly growing attention in the fields of finance, economy, mathematical biology and many other disciplines. It is important to develop new theories and methods, as well as to modify and refine the well-known techniques for the analysis of new classes of problems. This special issue is concerned with all nonlinear dynamics phenomena, such as self-organization, multifeedback, asymptotic behavior, stability, oscillation, bifurcation, and chaotic nature, occurring in financial systems. We aim to provide a platform for the discussion of the major research challenges and achievements on financial systems. Theoretical as well as numerical results are welcome. Potential topics include, but are not limited to:

- Dynamical analysis of stability, chaos, and bifurcation on financial systems
- Time-delay financial systems
- Asymptotic behavior analysis
- Stochastic modeling and analysis
- Behavioral finance modeling
- Agent-based computational finance
- Financial diagnosis and control
- Financial time series modeling and forecasting
- Portfolio selection and optimization
- Asset pricing and arbitrage techniques
- Risk assessment and credit analysis
- Numerical computation and simulations

Before submission authors should carefully read over the journal's Author Guidelines, which are located at http://www.hindawi.com/journals/ddns/guidelines/. Prospective authors should submit an electronic copy of their complete manuscript through the journal Manuscript Tracking System at http://mts.hindawi.com/submit/journals/ddns/finsys/ according to the following timetable:

Manuscript Due	Friday, 18 April 2014
First Round of Reviews	Friday, 11 July 2014
Publication Date	Friday, 5 September 2014

Lead Guest Editor

Chuangxia Huang, College of Mathematics and Computing Science, Changsha University of Science and Technology, Changsha, Hunan 410114, China; cxiahuang@126.com

Guest Editors

Fenghua Wen, School of Business, Central South University, Changsha, Hunan Province 410083, China; wfh@amss.ac.cn

Jianping Li, Institute of Policy and Management, Chinese Academy of Science(CAS), Beijing 100190, China; ljp@casipm.ac.cn

Taishan Yi, Department of Applied Mathematics, University of Western Ontario, London, ON, Canada N6A 5B7; tyi3@uwo.ca

Xiaodong Lin, Rutgers Business School, Rutgers University, Piscataway, NJ 08854, USA; lin@business.rutgers.edu

Hindawi Publishing Corporation
http://www.hindawi.com/