



Quantitative Finance >

Volume 12, 2012 - [Issue 3](#)

659 | 10

Views | CrossRef citations to date | 3

Altmetric

Research Papers

Bayesian analysis of multi-group nonlinear structural equation models with application to behavioral finance

Bin Lu, Xin-Yuan Song  & Xin-Dan Li

Pages 477-488 | Received 03 Sep 2008, Accepted 25 Sep 2009, Published online: 17 Feb 2010

 Cite this article  <https://doi.org/10.1080/14697680903369500>

Sample our
Mathematics & Statistics
Journals



>> [Sign in here](#) to start your access
to the latest two volumes for 14 days

 Full Article

 Figures & data

 References

 Citations

 Metrics

 Reprints & Permissions

Read this article

 Share

Abstract

Structural equation models (SEMs) have been widely used to determine the relationships among certain observed and latent variables in behavioral finance. The purpose of this paper is to develop a Bayesian approach for analysing multi-group nonlinear SEMs. Using recently developed tools in statistical computing, such as the Gibbs sampler, we propose an efficient method to estimate parameters and select an appropriate model. The proposed method is used to investigate the relationships among all identified influential factors that have an impact on the motivation for insider trading within the framework of behavioral finance.

Keywords:

Bayesian statistics

Behavioral finance

Credit risk

Financial markets

Acknowledgements

Bin Lu is supported by the Natural Science Fund of China (No. 10726072, 70871058). Xin-Yuan Song is supported by a grant (450508) from the Research Grant Council of Hong Kong Special Administration Region and a direct grant (CUHK 2060311). Xin-Dan Li is supported, in part, by the Program for New Century Excellent Talents in University and the Natural Science Fund of China (No. 70671053, 70932003).

Related research

People also read

Recommended articles

Cited by
10

Information for

[Authors](#)

[R&D professionals](#)

[Editors](#)

[Librarians](#)

[Societies](#)

Opportunities

[Reprints and e-prints](#)

[Advertising solutions](#)

[Accelerated publication](#)

[Corporate access solutions](#)

Open access

[Overview](#)

[Open journals](#)

[Open Select](#)

[Dove Medical Press](#)

[F1000Research](#)

Help and information

[Help and contact](#)

[Newsroom](#)

[All journals](#)

[Books](#)

Keep up to date

Register to receive personalised research and resources by email



Sign me up



Copyright © 2025 Informa UK Limited [Privacy policy](#) [Cookies](#) [Terms & conditions](#)

[Accessibility](#)



Taylor & Francis Group
an informa business

Registered in England & Wales No. 01072954
5 Howick Place | London | SW1P 1WG