

基于机制转换混合Copula模型的我国股市间极值相依性

吴吉林¹, 张二华²

1. 山东大学 经济研究院, 济南 250100;
2. 上海财经大学 经济学院, 上海 200439

Extreme dependence in Chinese stock markets based on regime-switching mixed Copula

WU Ji-lin¹, ZHANG Er-hua²

1. The Center for Economic Research, Shandong University, Shandong 250100, China;
2. The School of Economics, Shanghai University of Finance and Economics, Shanghai 200439, China

- 摘要
- 参考文献
- 相关文章

全文: PDF (1342 KB) HTML (1 KB) 输出: BibTeX | EndNote (RIS) 背景资料

摘要 通过构建机制转换混合 Copula 模型, 考察了沪、深股市与港、台股市间的尾部相依特征, 研究发现: 它们间的尾部相依性呈非对称动态过程, 在低风险状态下, 右尾部相依性普遍高于左尾部相依性; 而在高风险状态下, 左尾部相依性普遍高于右尾部相依性. 相对于沪、深股市与台股而言, 沪、深股市与港股间的尾部相依性更强, 其尾部相依性对外来冲击更敏感; 相对于沪市与港、台股市而言, 深市与港、台股市间的尾部对外在冲击更敏感. 在此次次贷危机中, 沪、深股市与港、台股市间极值风险显著增加, 并呈现明显的金融感染. 而且各尾部相依性的两个结构变化几乎同时发生并分别对应于危机的第一、二阶段, 这表明: 沪、深股市与港、台股市间的风险呈系统性特征, 而危机的第三阶段对沪、深股市与港、台股市间的影响较有限.

关键词: 极值事件 金融感染 市场风险 尾部相依性 机制转换

Abstract: Based on regime switching mixed Copula model, this paper finds the tail dependence between Shanghai, Shenzhen and Hongkong, Taiwan stock markets is a dynamic asymmetric process. In the state of low risk, right tail dependence is higher than left tail dependence; in the state of high risk, the situation is opposite. The tail dependence between Shanghai, Shenzhen and Hongkong stock markets is much stronger and more sensitive to exterior shocks than that between Shanghai, Shenzhen and Taiwan stock markets. The tail dependence between Shenzhen and Hongkong, Taiwan stock markets is more sensitive to exterior shocks than that between Shanghai and Hongkong, Taiwan stock markets. Tail dependence shows Chinese stock market risk increases significantly in the crisis and financial contagion happens. Furthermore, the tail dependence shows two big simultaneous structure changes correspond to the first and second stages of the crisis, which means the stock market risk is systematic. However, the third stage of the crisis almost has no influence on Chinese stock markets.

Key words: extreme events financial contagion market risk tail dependence regime switching


收稿日期: 2010-05-26;

基金资助: 山东大学经济研究院自主创新(2011JC004)

引用本文:

吴吉林, 张二华. 基于机制转换混合Copula模型的我国股市间极值相依性[J]. 系统工程理论实践, 2012, (8): 1662-1672.

WU Ji-lin, ZHANG Er-hua. Extreme dependence in Chinese stock markets based on regime-switching mixed Copula[J]. Systems Engineering - Theory & Practice, 2012, (8): 1662-1672.

[1] 冯芸, 吴冲锋. 基于引导和互动性的传染检验[J]. 世界经济, 2002(2): 34-42. Feng Y, Wu C F. Contagion test based on channel and interaction [J]. World Economy, 2002(2): 34-42. 

[2] King M, Wadhvani S. Transmission of volatility between stock markets[J]. Review of Financial Studies, 1990(3): 5-33. 

服务

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ E-mail Alert
- ▶ RSS

作者相关文章

- ▶ 吴吉林
- ▶ 张二华

