首 页 | 期刊介绍 | 编委会 | 编辑部介绍 | 投稿指南 | 期刊订阅 | 广告合作 | 留言板 | 联系我们 |

2012, Vol.

Issue (4) :8-17

最新目录 | 下期目录 | 过刊浏览 | 高级检索

<< Previous Articles | Next Articles >>

## 基于债权终止的可违约债券定价

崔长峰, 刘海龙

上海交通大学安泰经济与管理学院, 上海 200052

# The Pricing of Defaultable Bond Based on Claim Termination

CUI Chang-feng, LIU Hai-long

Antai College of Economics & Management, Shanghai Jiao Tong University, Shanghai 200052, China

- 参考文献
- 相关文章

Download: PDF (2255KB) HTML (1KB) Export: BibTeX or EndNote (RIS) Supporting Info

摘要 已有实证结果表明流动性风险及其与违约风险的相关性是影响可违约债券收益率的重要因素,然而目前的研究还不能建立一种计 算简便且同时包含流动性风险以及风险相关尤其是尾部相关性的定价模型。本文将流动性风险与违约风险都描述为债权终止事件驱动 型的风险,从而可以利用与违约时间类似的出售时间来刻画流动性风险过程。基于债权终止事件的发生时间,本文拓展了简约模型以考 虑流动性风险及风险相关性。与以往的研究相比,基于债权终止时间的模型具备诸多优势:模型简便适合大规模计算、允许时变流动性 风险、包含尾部相关等较为丰富的风险相关性结构。数值算例表明,本文的模型能更好地刻画流动性风险溢价以及风险的尾部相关性对 债券收益率曲线上下尾端的影响。

关键词: 可违约债券定价 流动性风险 债权终止 风险相关

Abstract: Recent empirical studies have shown that liquidity risk and its correlation with default risk are important factors to explain defaultable bond yields. However, the models incorporatoing liquidity risk for defaultable bond pricing are either too simple to deal with various risk correlation or too complex to be applied in practice. The common property of liquidity risk and default risk is that they are both claim-termination event driven risk. This faciliates the work in extending traditional default risk model for defaultable bond to incorporate liquidity risk and risk correlation. The pricing model based on claim-termination has three main advantages over traditional models: easy to implement in practice, allowing time-varying liquidity risk, and easy to deal with various correlation between liquidity risk and default risk including tail dependence.

收稿日期: 2011-03-04;

基金资助:国家自然科学基金重大课题(70831004z)

#### 引用本文:

崔长峰, 刘海龙 .基于债权终止的可违约债券定价[J] 中国管理科学, 2012, V(4): 8-17

- [1] Merton R. On the pricing of corporate debt: the risk structure of interest rates [J]. The Journal of Finance, 1974, 29 (2): 449-470.
- [2] Longstaff F, Schwartz E. A simple approach to valuing risky fixed and floating rate debt [J]. The Journal of Finance, 1995, 50(3): 789-81 crossref
- [3] Jarrow R, Lando D, Turnbull S. A markov model for the term structure of credit risk spreads [J]. The Review of Financial Studies, 1997, 1 (2): 481-523. \_\_\_\_ref
- Madan D, Unal P, Pricing the risks of default [J]. Review of Derivative Research, 1998, 2(1): 121-160. [4]
- Lando D. On cox processes and credit risky securities [J]. Review of Derivatives Research, 1998, 2: 99-120. [5]
- Elton E, Gruber M, Agrawal D, Mann C. Explaining the rate spread on corporate bonds [J], The Journal of Finance. 2001, 56(1): 247-277.

#### Service

把本文推荐给朋友 加入我的书架 加入引用管理器

**Email Alert** 

RSS

### 作者相关文章

崔长峰

刘海龙

cross<sup>red</sup>

[7] Houweling P, Mentink A, Vorst T. Comparing possible proxies of corporate bond liquidity [J]. Journal of Banking & Finance, 2005, 29: 1331 1358.

- [8] Longstaff F, Mithal S, Neis E. Corporate yield spreads: default risk or liquidity? new evidence from the credit default swap market [J]. Th Journal of Finance, 2005, 60(5): 2213-2253.
- [9] Duffie D, Singleton K. Modeling term structures of defaultable bonds [J]. Review of Financial Stuldies, 1999, 12: 687-720. 赢
- [10] Jarrow R. Default parameter estimation using market prices [J]. Financial Analysts Journal, 2001, 57(5): 75-92.
- [11] Janosi T, Jarrow R, Yildirim Y. Estimating expected losses and liquidity discounts implicit in debt prices [J]. Journal of risk, 2002, 5(1): 17: 215.
- [12] Amihud Y, Mendelson H. Liquidity maturity and the yields on U.S. treasury securities [J]. the Journal of Finance, 1991, 46: 1411-1425.
- [13] Ericsson J, Renault O. Liquidity and credit risk [J]. The Journal of Finance, 2006, 5: 2219-2250.
- [14] Beber A, Brandt M, Kavajecz K. Flight-to-quality or flight-to-liquidity? evidence from the euro-area bond market [J]. Review of Financial Studies, 2009, 22(3): 925-957.
- [15] Tychon P, Vannetelbosch V. A model of corporate bond pricing with liquidity and marketability risk [J]. Working Paper, 2005.
- [16] Li D X. On default correlation: a copula function approach [J]. Journal of Fixed Income, 2000, 9(4): 43-54.
- [17] Bongaerts D, De-Jong F, Driessen J. Derivative pricing with liquidity risk: theory and envidence from the credit default swap market [J]. The Journal of Finance, 2011, 66(1): 203-240.
- [18] Monfort A, Renne J. Default, liquidity and crises: an econometric framework [J]. Working Paper, 2011.
- [19] He Zhiguo, Xiong, Wei. Rollover risk and credit risk [J]. The Journal of Finance, Forthcoming
- [20] Hu Ling. Essays in Econometrics with applications in Macroeconomic and Financial Modeling. New Haven: Yale University, 2002.

李研妮 冉茂盛 .商业银行流动性风险管理方法的改进研究——基于模糊定性约束下的动态规划补偿模型应用

[J]. 中国管理科学, 2011,19(3): 19-25 王明涛 庄雅明.股票市场流动性风险计量模型研究

[J]. 中国管理科学, 2011,19(2): 1-09

[1]

[2]