



國立高雄應用科技大學

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碩士論文

利用結構模型預測信用評等：越南實證

**Structural approach to forecast credit rating:**

**Evidences from Vietnam**

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## ABSTRACT

This research applied Merton's (1974) structural credit risk model to predict credit rating based on data from equity market. By comparing with simple reduced-form model, we studied if distance-to-default is a sufficient statistic in reflecting the credit quality of firms. We found that simple reduced form model does better than the Merton (1974) model in explaining credit rating, data we collected from publication of credit rating center (CIC – subsidiary of State bank of Vietnam). However, we get mixed model by including the firm's equity volatility variable into structural model and it has some improvement than other in both explaining and predicting. Base on these results, we conclude that distant-to-default alone does not adequately capture the firm's credit quality information from the equity market. Finally, we found empirical results of difference in credit quality between companies listing on Hochiminh stock exchange (HOSE) and Hanoi stock exchange (HNX).

Keywords: Credit rating, default probability, distance-to-default, structural credit risk model

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