



# Dynamic Conditional Correlation Models and Portfolio Risk Management

By Frederik Bauer

Shaker Verlag Jul 2011, 2011. Taschenbuch. Book Condition: Neu. 212x151x14 mm. Neuware - The contribution of this thesis in empirical finance is twofold: On the one hand it delivers a first comprehensive analysis of Dynamic Conditional Correlation (DCC) models, a modern class of risk models. Distinct model specifications, in-sample and out-of-sample forecasts, small up to large sized portfolios of assets and various statistical tests are considered. On the other hand those risk estimates and those of alternative risk models are evaluated in a broad collection of portfolio (risk) management exercises under realistic settings. Alternative portfolio construction techniques/optimizations, various amounts of trading costs and simulated portfolio managers with different skill levels are considered. The key finding is that DCC models do indeed often perform significantly better than other risk models if our objective is to monitor risk. But if we use DCC models in a portfolio optimization context, there exist simple models, like the sample covariance, which perform better indicated by many financial measures. The results of this thesis indicate that active risk control or trading should not be based on DCC models due to much higher portfolio turnover values and consequently much higher trading costs induced by DCC models. However...



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