

# **Association between accounting and market-based variables; a canonical correlation approach with U.S. data.**

**Timo Salmi, Ilkka Virtanen, Paavo Yli-Olli and Juha-Pekka Kallunki**

## **Abstract**

The nature of the association between the firm's accounting and market-based variables is investigated using canonical correlation analysis. The data consists of NYSE and AMEX firms for 1976-1993. A clear relationship between the firm's accounting and stock-market variables is observed. However, the accounting variables making up the relationship vary along time. The decomposed analysis of the association suggests that accrual-based financial ratios are crucial for security analysis. Cash-based financial ratios show increasing relevance over time. The effect of a reduction of the original set of the accounting variables into six key financial ratios is observed. The inclusion of the variance of the stock return into the market-based variable set is found to crucially increase the strength of the association.

*Key words: financial statement analysis, stock market, canonical correlation.*

*JEL: M40, G12.*

**(Advances in Financial Planning and Forecasting, Vol. 9 (2000), 97-114.)**