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Ukio Technologinis ir Ekonominis Vystymas > Volume 16, 2010 - <u>Issue 3</u>



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Original Articles

## Alterations in the financial markets of the Baltic countries and Russia in the period of economic downturn

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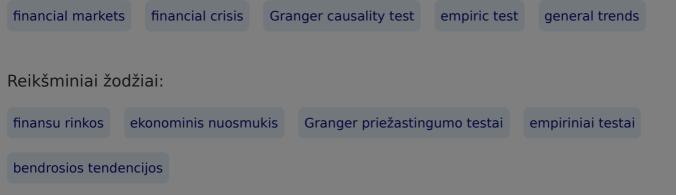
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assumptions: both crises affected financial markets of several nations; a characteristic

feature for the inception of the crises is an abrupt fall in equity prices; indications of stabilisation in financial markets become observable before financial experts conclude the end of the financial crisis. To confirm the hypothesis on the similarities of the general trends during the two major international financial crisis, the authors employed empiric tests developed on the basis of Granger causality tests. Based on the precedent survey of the financial crisis of 1987 (Malliaris and Urrutia 1992), the authors of the present article chose to use the Granger causality testing methodology. To be able to apply the Granger causality test first it was necessary to verify the degree of cointegration of the indices of the main equity markets in each of the country (OMX Vilnius, OMX Riga, OMX Tallinn, RTS). For that purpose the authors used the Dickey-Fuller and Johansen testing methodology. Both methodologies demonstrated a strong cointegration between the changes in the indices of all equity markets irrespective of the period analysed (i.e., pre-crisis, during the crisis, post-crisis). In all cases the Tstatistics exceeded the critical value. The strongest cointegration was observable in the crisis period, and the weakest - after the crisis. The results showed that in view of the financial crisis the Latvian market showed the greatest degree of slow-down despite it being most active in the pre-crisis times, likewise, Estonian market also showed a somewhat higher degree of passiveness. Thus, it was the Latvian and Estonian markets that the financial downturn had the most painful impacts upon. While the Lithuanian and the Russian markets were, on the contrary, much more active and therefore outlived ing X confirma st investors showing a are large higher d Santra Straipsn m. u – Lietuvos. finan Latvii celia hipoteze osi tendenc partinei finansin valstybiu finansu u rinku stabiliza es pabaiga. Dvieju ta ezei patvirtinti naudoti empiriniai testai, parengti remiantis Granger priežastiniais testais:

Granger priežastiniai testai ir kointegracijos testai. Nustatyta, kad finansines krizes metu Latvijos rinka tapo pasyviausia, nors iki prasidedant krizei buvo pati aktyviausia, pasyvesne tapo ir Estijos rinka. Taigi finansinis nuosmukis skaudžiausiai paveike Latvijos ir Estijos finansu rinkas. Lietuvos ir Rusijos rinkos krizes metu tapo pačios aktyviausios ir lengviausiai išgyveno akciju kainu kritimo perioda, tuo patvirtindamos, kad krizes metu daugelio investuotoju interesai ir lūkesčiai paprastai siejami su didesnemis rinkomis, kurios laikomos patikimesnemis ir turinčiomis galimybe greičiau atsigauti.

## Keywords:





Testing for Granger (non-)causality in a time-varying coefficient VAR model Source: Journal of Forecasting Comparing alternative tests of causality in temporal systems Source: Journal of Econometrics The International Crash of October 1987: Causality Tests Source: Journal of Financial and Quantitative Analysis Causality in temporal systems Source: Journal of Econometrics Parametric and nonparametric Granger causality testing: Linkages between international stock markets Source: Physica A Statistical Mechanics and its Applications The International Crash of October 1987 Source: Financial Analysts Journal PROCESSES OF LOCALIZATION AND INSTITUTIONALIZATION OF LOCAL MANAGERS IN ECONOMIC FUNCTIONS IN DANISH OWNED SUBSIDIARIES IN ESTONIA, LATVIA AND LITHUANIA AROUND THE 21ST CENTURY Source: Journal of Business Economics and Management Finite-sample simulation-based inference in VAR models with application to Granger causality testing Source: Journal of Econometrics Interest rate linkages in the Eurocurrency market: Contemporaneous and out-ofsample Granger causality tests Sourc X ETHI( N THE CONT UVOS **PATIR** Sourc Co-in Sourc **LEAD** Sourc **Smal** te Stoch Sourc Multi Sourc Linking provided by Schole plorer

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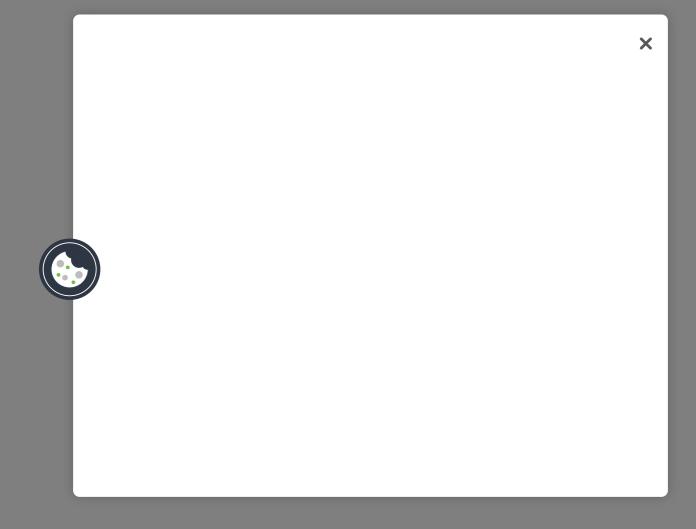
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