

# The dynamic relationship between economic crisis, macroeconomic variables and stock prices in Sri Lanka

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## Abstract

**Purpose** – This study aims to examine the short- and long-term equilibrium relationship between All share price index (ASPI), macroeconomic variables and the economic crisis in Sri Lanka.

**Design/methodology/approach** – Monthly time series data for inflation (CPI), industrial production (IP), an exchange rate (EX), an interest rate (TI), short-term interest rate (CD) and economic crisis were used from 2010 to 2021. The ADF test, the bound testing approach, the CUSUM test and the CUSUMQ test were used in this study.

**Findings** – The findings show a long-run stable relationship between stock price, macroeconomic variables and political crisis (i.e., CPI, IP, EX, TI, CD and economic crisis). The results of the Johansen cointegration test suggest that there is at least one cointegrating equation, indicating that there is a long-run equilibrium relationship between macroeconomic variables and stock prices in Sri Lanka.

**Research limitations/implications** – The vector error correction estimates show that the coefficient of the error correction term is significant with a negative sign, indicating that a long-run dynamic relationship exists between macroeconomic variables and stock prices. In the short term, economic crisis has had a big effect on stock prices suggesting that Sri Lanka's domestic financial markets are linked to the stability of the country.

**Originality/value** – This research establishes the links between stock returns, macroeconomic variables and economic crisis. So far, research has been unable to establish the empirical nature of such links. The authors believe that this paper fills that gap.

**Keywords** Impulse response, VAR, Stock prices, Macroeconomic indicators, Economic crisis

**Paper type** Research paper

## Introduction

The business cycle is a prominent characteristic of the capitalist economy. Numerous studies have been conducted to comprehend the nature of this topic. Utilising leading economic indicators, it is possible to predict the business cycle. On the other hand, the stock market is assumed to be a forward-looking predictor of the business cycle and is a significant indicator for predicting the economy. The global economy has been affected by the COVID-19 pandemic and financial crisis and political crisis, but it is still not clear how these will affect stock markets. Even though the pandemic is still going on, most markets seem to have recovered. This suggests that there has been a structural break in the relationship between stock returns and COVID-19. The ongoing economic crisis in Sri Lanka began in the year 2019 and it is the worst economic crisis the nation has faced since it gained its independence in 1948. It has brought about unprecedented levels of inflation (CPI), a near-depletion of foreign



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Macroeconomic Variables and Security Prices in India during the Liberalized Period Tarak Nath Sahu, 2016-01-01 The liberalization and globalization of the Indian economy has made India more vulnerable to macro issues This book provides a comprehensive analysis of the dynamic relationship between macroeconomic variables and stock prices in India The research findings and policy implications discussed here may also be relevant for other emerging economies **Research Anthology**

**on Macroeconomics and the Achievement of Global Stability** Management Association, Information Resources, 2022-08-05 The COVID 19 pandemic has shocked economies around the world and created an era of global instability As the pandemic comes to a close it is essential to examine global economies in order to achieve and maintain global stability By maintaining global stability the world may be prepared for future economic shocks The Research Anthology on Macroeconomics and the Achievement of Global Stability discusses the emerging opportunities challenges and strategies within the field of macroeconomics It features advancements in the field that encourage global economic stability Covering topics such as Islamic banking international trade and Econophysics this major reference work is an ideal resource for economists government leaders and officials business leaders and executives finance professionals students and educators of higher education librarians researchers and academicians *Fintech Ecosystem-Transformation and Market*

*Dynamics* Ms.Veenu Joy Ms.ShivakamiRajan, *Yield Curve Dynamics and Spillovers in Central and Eastern European Countries* Ms.Anita Tuladhar, Mr.Alexander W. Hoffmaister, Mr.Jorge Roldos, 2010-02-01 This paper applies the models used to study yield curve dynamics and spillovers in the U S and other countries to Central and Eastern European countries CEE countries Using the Diebold Rudebusch and Aruoba 2006 dynamic version of the Nelson Siegel representation of the yield curve the paper finds that the two way relationship between macroeconomic and financial variables in the CEE countries is similar to the one in mature economies However inflation shocks have very little persistence in the CEE countries owing to the strong convergence trends in these countries which tend to re anchor expectations faster Increased convergence in policies and market integration over time are associated with a stronger correlation between the levels of the yield curves while the curves slopes are more driven by idiosyncratic factors Shifts in the euro yield curve are transmitted both to interest rates and inflation expectations in the CEE countries and transmission is stronger after 2004 **Efficiency and Volatility**

**Dynamics of Bangladesh's Stock Market** Md Abu Hasan, 2024-02-06 This book contributes to empirical finance by comprehensively analysing an emerging stock market employing modern econometric techniques The most central and fascinating area of financial economics is probably the efficiency and volatility of the stock market however studies of emerging economies are relatively limited in this area The rising importance of stock market globalisation has increased interest in emerging markets This book leads the way for an emerging market perspective as it explores the issue of efficiency and volatility of the stock market in Bangladesh by employing both univariate and multivariate models using daily

data of past share prices and monthly data of macroeconomic variables and the stock index respectively This book offers an understanding of the crucial issues facing developing economies particularly emerging stock markets with similar characteristics to those of Bangladesh This book undoubtedly provides valuable information for investors in the stock market graduate post graduate and PhD students in quantitative financial economics academics in economics and finance and policymakers in developing economies

A Study on Dynamic Relationship Between Macroeconomic Variables and Stock Markets in the United States, Germany, and Hong Kong Taibo Mu, 2016 This empirical study investigates the relationship between selected macroeconomic variables and the stock markets in the US Germany and Hong Kong The seven chosen macroeconomic variables are interest rate inflation oil price unemployment rate industrial production index money supply and exchange rate In this study Pearson's correlation unit root tests Granger causality test Johansen cointegration test and regression model are used to identify how these macroeconomic variables impact on S P500 in the United States DAX 30 in Germany and Hang Seng Index in Hong Kong with the monthly series for a period of 18 years from July 1997 to July 2015 The empirical results show that there are short term causal relationships and long term equilibrium relationships between macroeconomic variables and the stock markets in these three countries

*Business, Economics, Financial Sciences, and Management* Min Zhu, 2012-02-11 A series of papers on business economics and financial sciences management selected from International Conference on Business Economics and Financial Sciences Management are included in this volume Management in all business and organizational activities is the act of getting people together to accomplish desired goals and objectives using available resources efficiently and effectively Management comprises planning organizing staffing leading or directing and controlling an organization a group of one or more people or entities or effort for the purpose of accomplishing a goal Resourcing encompasses the deployment and manipulation of human resources financial resources technological resources and natural resources The proceedings of BEFM2011 focuses on the various aspects of advances in Business Economics and Financial Sciences Management and provides a chance for academic and industry professionals to discuss recent progress in the area of Business Economics and Financial Sciences Management It is hoped that the present book will be useful to experts and professors both specialists and graduate students in the related fields

**Sources and Dynamics of Macroeconomic Fluctuations in Switzerland** Alexander E. Kobler, 2000

**Advances in Computational Intelligence** Ildar Batyrshin, Alexander Gelbukh, Grigori Sidorov, 2021-10-20 The two volume set LNAI 13067 and 13068 constitutes the proceedings of the 20th Mexican International Conference on Artificial Intelligence MICA 2021 held in Mexico City Mexico in October 2021 The total of 58 papers presented in these two volumes was carefully reviewed and selected from 129 submissions The first volume Advances in Computational Intelligence contains 30 papers structured into three sections Machine and Deep Learning Image Processing and Pattern Recognition Evolutionary and Metaheuristic Algorithms The second volume Advances in Soft Computing contains 28 papers structured into two sections Natural

Language Processing Intelligent Applications and Robotics      Dynamic Macroeconomic Linkages to the Agricultural Sector Francis In, Timothy Mount, 1994 This work investigates in detail both short term and long term relationships between agriculture and the macroeconomy in the US economy      EQUITY MANAGEMENT QUANTITATIVE ANALYSIS Bruce I. Jacobs, Kenneth N. Levy, 2000 Two pioneers and innovators in the money management field present their choice of groundbreaking peer reviewed articles on subjects including portfolio engineering and long short investment strategy More than just a collection of classic review pieces however Equity Management provides new material to introduce interpret and integrate the pieces with an introduction that provides an authoritative overview of the chapters Important and innovative it is destined to become the Graham and Dodd of quantitative equity investing About the Authors Bruce I Jacobs and Kenneth N Levy are Principals of Jacobs Levy Equity Management Based in Florham Park New Jersey Jacobs Levy Equity Management is widely recognized as a leading provider of quantitative equity strategies for institutional clients Jacobs Levy currently manages over 15 billion in various strategies for a prestigious global roster of 50 corporate pension plans public retirement systems multi employer funds endowments and foundations including over 25 of Pensions Investments Top 200 Pension Funds Sponsors Bruce I Jacobs holds a PhD in finance from the Wharton School of the University of Pennsylvania He is the author of Capital Ideas and Market Realities Option Replication Investor Behavior and Stock Market Crashes and co editor with Ken Levy of Market Neutral Strategies He serves on the advisory board of the Journal of Portfolio Management Kenneth N Levy holds an MBA and an MA in applied economics from the Wharton School of the University of Pennsylvania He is co editor with Bruce Jacobs of Market Neutral Strategies A Chartered Financial Analyst he has served on the CFA Institute s candidate curriculum committee and on the advisory board of POSIT      **Can Macroeconomic Variables Account for the Term Structure of Sovereign Spreads?** Marco S. Matsumura, Ajax R. B. Moreira, 2005      *Macro Factors and the Yield Curve* Peyron Law, 2005      **An Exploration of Dynamical Relationships Between Macroeconomic Variables and Stock Prices in Korea** Jung Wan Lee, 2018 This paper examines short run and long run dynamic relationships between selected macroeconomic variables and stock prices in the Korea Stock Exchange The data is restricted to the period for which monthly data are available from January 1986 to October 2016 370 observations retrieved from the Economic Statistics System database sponsored by the Bank of Korea The study employs unit root test cointegration test vector error correction estimates impulse response test and structural break test The results of the Johansen cointegration test indicate at least three cointegrating equations exist at the 0.05 level in the model confirming that there is a long run equilibrium relationship between stock prices and macroeconomic variables in Korea The results of vector error correction model VECM estimates indicate that money supply and short term interest rate are not related to stock prices in the short run However exchange rate is positively related to stock prices while the industrial production index and inflation are negatively related to stock prices in the short run Furthermore the VECM estimates indicate that the external shock such as regional and global

financial crisis shocks neither affects changes in the endogenous variables nor causes instability in the cointegrating vector. This study finds that the endogenous variables are determined by their own dynamics in the model. *An Empirical Study of the Explanatory Power of Macroeconomic Variables on Malaysian Stock Market* Kai Loon Chung, 2009

**System Dynamics in Economic and Financial Models** Christiaan Heij, Hans Schumacher, Bernard Hanzon, Kees Praagman, 1997-12-05

System Dynamics in Economic and Financial Models Edited by Christiaan Heij Hans Schumacher Bernard Hanzon and Kees Praagman

System Dynamics in Economic and Financial Models discusses different approaches for dynamic modelling of economic and financial data and includes empirical applications particularly in finance and macroeconomics to illustrate the methods discussed. Written by leading experts from a wide range of backgrounds varying from econometrics and finance to systems and control each chapter is followed by a comments section that presents alternative and sometimes contrasting points of view. The authors look at the interface between economics and finance and examine topics including non linear dynamics chaos structural change trends and cointegration general methodologies in empirical modelling

**Applied Econometrics and Macroeconometric Modelling in Nigeria** ,2009

**The Dynamics of Economic Policy Reform in South-east Asia and the South-west Pacific** Andrew J. MacIntyre, Kanishka Jayasuriya, 1992

Much more contentious however is the question of how to implement policy reforms. Why do some countries seem more able to bring about change than others

*World Agricultural Economics and Rural Sociology Abstracts* ,1995

**A Dynamic Theory of Taxation** Anthony J. Laramie, Douglas Mair, 2000

In addition they examine the incidence of the corporate profits tax and the macroeconomic and regional incidence and effects of local taxation. A Dynamic Theory of Taxation will be of interest to tax policy analysts and government policy advisors as well as scholars working in the fields of public finance post Keynesian and Kaleckian economics

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