

Panel Vector Autoregression in R with the Package panelvar

Michael Sigmund¹, Robert Ferstl²

Abstract

In this paper we extend two general methods of moment (GMM) estimators to panel vector autoregression models (PVAR) with p lags of endogenous variables, predetermined and strictly exogenous variables. We first extend the first difference GMM estimator to this extended PVAR model. Second, we do the same for the system GMM estimator. We implement these estimators in the R package panelvar. In addition to the GMM estimators, we contribute to the empirical literature by implementing common specification tests (Hansen overidentification test, lag selection criterion and stability test of the PVAR polynomial) and classical structural analysis for PVAR models such as orthogonal and generalized impulse response functions, bootstrapped confidence intervals for impulse response analysis and forecast error variance decompositions. Finally, we implement the first difference and the forward orthogonal transformation to remove the fixed effects.

Keywords: Panel vector autoregression model, generalized method of moments, first difference and system GMM, R

JEL: Classification Numbers G20, G30

1. Introduction

Over the past decades important advances have been made in the study of dynamic panel data models with fixed effects for the typical setting that cross-sectional dimension (N) is large and the time dimension (T) is short. Classical OLS-based regression methods cannot be applied because of the Nickell bias (Nickell, 1981) that does not disappear asymptotically if $N \rightarrow \infty$ and T is fixed. One solution to this problem is to apply generalized method of moments estimators popularized by Hansen (1982) in economics. Important contributions are Anderson and Hsiao (1982), Holtz-Eakin et al. (1988), Arellano and Bond (1991), Arellano and Bover (1995) and Blundell and Bond (1998).

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Panel Vector Autoregression In R The Panelvar Package

Carlos Góes



Panel Vector Autoregression In R The Panelvar Package:

Panel Vector Autoregression in R with the Package Panelvar Michael Sigmund,2019 In this paper we extend two general methods of moment GMM estimators to panel vector autoregression models PVAR with p lags of endogenous variables predetermined and strictly exogenous variables We first extend the first difference GMM estimator to this extended PVAR model Second we do the same for the system GMM estimator We implement these estimators in the R package panelvar In addition to the GMM estimators we contribute to the empirical literature by implementing common specification tests Hansen overidentification test lag selection criterion and stability test of the PVAR polynomial and classical structural analysis for PVAR models such as orthogonal and generalized impulse response functions bootstrapped confidence intervals for impulse response analysis and forecast error variance decompositions Finally we implement the first difference and the forward orthogonal transformation to remove the fixed effects *Globalisation and Energy Transition in Latin America and the Caribbean* Matheus Koengkan, José Alberto Fuinhas,2022-10-13 This book explores the potential for renewable energy development and the adoption of sustainable production processes in Latin America and the Caribbean By examining the energy transition process the impact of environmental degradation and the relationship between renewable energy sources and economic growth the effects of increased globalisation and liberalisation in this part of the world are analysed Particular attention is given to renewable energy investment the energy economics growth nexus the impact of trade openness and the mitigation of carbon emissions This book aims to highlight econometric techniques that can be used to tackle issues relating to globalisation the energy transition and environmental degradation It will be relevant to researchers and policymakers interested in energy and environmental economics **Sustainability and the Future of Work and Entrepreneurship for the Underserved** Rolle, JoAnn Denise, Crump, Micah,2022-06-24 Disparity in the workplace has been exacerbated in recent years as society faces a number of challenges in promoting inclusion and equality across fields To ensure appropriate steps are taken to move in the direction of a diverse and equitable future for the workforce further study and consideration on the key challenges opportunities and strategies for advancing business policy to provide for the underserved is required Sustainability and the Future of Work and Entrepreneurship for the Underserved highlights marginalized labor and entrepreneurial market segments and reviews strategies used to prepare for technological change globally The book also provides a series of recommendations to assist in growing and sustaining a more inclusive global society Covering a range of topics such as disparities class challenges and entrepreneurs this reference work is crucial for policymakers business owners managers researchers academicians scholars instructors and students *Social Sector Spending, Governance and Economic Development* Ramesh Chandra Das,2023-02-20 Economic development depends heavily on the growth of social sectors like education healthcare gender equality as well as factors like income consumption investment and trade This book examines the interlinkages between development good governance and spending on social growth The book focuses on

different areas of social growth public welfare and poverty reduction including managing human resources corruption in public institutions and public spaces as well as health and welfare measures The chapters in the volume highlight the role of government interventions in boosting human development particularly in developing countries in Asia and Africa and many developed countries in the post COVID scenario The book also examines the foundations of government spending on development and effective governance while underlining the impact which social growth has on the economy Rich in theoretical and empirical perspectives this book will be useful for students and researchers of economics sociology political studies public finance development studies as well as for policymakers and think tanks working in the areas of human development

Global Business Strategies in Crisis Ümit Hacıoğlu, Hasan Dinçer, Nihat Alayoğlu, 2016-12-07 As the world is currently in the midst of financial and economic crises this collection of expert contributions focuses on strategy formation and implementation at various organizational levels to address the challenges ahead The latest economic turmoil and its ongoing impact on business performance are compelling top managers to develop effective business strategies and redefine the boundaries of their operational and strategic activities On one hand tremendous challenges in the competitive business environment have become a source of global threats for many small entrepreneurs On the other investors faced with today's volatile economic conditions demand more gains on their capital investments to counter balance the growing risk of global threats This book explores the question as to whether it is possible to efficiently and effectively address these threats and obstacles Are managers capable of planning and implementing strategic actions What should the major managerial strategy be in order to overcome fluctuations in a market oriented society The strategies and practices recommended here are aimed to design continuous development competencies and contribute to the stability recovery and sustainability of global business operations under volatile economic conditions This refreshingly novel book seeks to establish managerial strategies and practices for effectively responding to challenges in the competitive business environment as global volatility and fluctuations continue to worsen

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performance fiscal and current account developments in these countries the study concludes that 1 in the short run external and country specific factors play an almost equal role in explaining macroeconomic fluctuations but in the long run external factors dominate 2 on average program countries are less vulnerable to adverse exogeneous shocks than nonprogram countries 3 to mitigate the negative impact of an external shock domestic policy response should be consistent with the size of the shock

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