

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

JR Anderson



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Essays on Non-normality, Nonparametrics and Cross Sectional Dependence in Panel Data Xiao Huang,2005 **Report on Currency and Finance** Reserve Bank of India,2008 Forecasting and Turning-point Predictions in a Bayesian Panel VAR Model Fabio Canova,Matteo Ciccarelli,2001 IMF Staff Papers ,2009 **Global Development Finance** ,2001 *IMF Economic Review* ,2011 **Fiscal Policy and Economic Cycles in Oil-exporting Countries** Aasim M. Husain,Kamilya Tazhibayeva,Anna Ter-Martirosyan,2008 This paper empirically assesses the impact of oil price shocks on the underlying non oil economic cycle in oil exporting countries Panel VAR analysis and the associated impulse responses indicate that in countries where the oil sector is large in relation to the economy oil price changes affect the economic cycle only through their impact on fiscal policy Once fiscal policy changes are removed oil price shocks do not have a significant independent effect on the economic cycle *Economic Review* Federal Reserve Bank of Kansas City,2011 *Institutions and Growth* Carlos Góes,2015-07-27 Both sides of the institutions and growth debate have resorted largely to microeconomic techniques in testing hypotheses In this paper I build a panel structural vector autoregression SVAR model for a short panel of 119 countries over 10 years and find support for the institutions hypothesis Controlling for individual fixed effects I find that exogenous shocks to a proxy for institutional quality have a positive and statistically significant effect on GDP per capita On average a 1 percent shock in institutional quality leads to a peak 1.7 percent increase in GDP per capita after six years Results are robust to using a different proxy for institutional quality There are different dynamics for advanced economies and developing countries This suggests diminishing returns to institutional quality improvements *Panel Vector Autoregressive Models* Fabio Canova,Matteo Ciccarelli,2013 Prior Selection for Panel Vector Autoregressions Dimitris Korobilis,2015 **Panel Data Econometrics with R** Yves Croissant,Giovanni Millo,2018-08-10 Panel Data Econometrics with R provides a tutorial for using R in the field of panel data econometrics Illustrated throughout with examples in econometrics political science agriculture and epidemiology this book presents classic methodology and applications as well as more advanced topics and recent developments in this field including error component models spatial panels and dynamic models They have developed the software programming in R and host replicable material on the book s accompanying website Disentangling Reciprocal Relationships Between R&D Intensity, Profitability and Capital Market Performance Amit Karna,Christos Mavis,Ansgar Richter,2022 Research and development R D investments are strategic choices that firms

make to create and sustain competitive advantage Extant literature proposes that firms R D investments and their profitability and capital market performance are reciprocally related However the direction of these relationships and their temporal nature are unclear We take a real options perspective to argue that the long run firm performance effects of R D investments are better than their short term ones and that the initial level of R D intensity influences the nature of these relationships We apply panel vector autoregression P VAR to a sample of 6 623 U S firms over the 1990 2020 period in order to test our hypotheses Our results indicate that increases in R D intensity have negative effects on profitability in the short term yet these effects diminish relatively quickly The effects of increases in R D intensity on capital market performance are positive and persist over time Consistent with our predictions they are contingent on the initial levels of R D intensity and performance The findings are fundamentally in line with the real options perspective employed here yet they add important nuance to our understanding of when how and under which conditions R D investments and firm performance affect one another

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