

Accepted Manuscript

Estimating labor force joiners and leavers using a heterogeneity augmented two-tier stochastic frontier

Tirthatanmoy Das, Solomon W. Polachek

PII: S0304-4076(17)30069-6

DOI: <http://dx.doi.org/10.1016/j.jeconom.2017.05.007>

Reference: ECONOM 4367

To appear in: *Journal of Econometrics*



Please cite this article as: Das, T., Polachek, S.W., Estimating labor force joiners and leavers using a heterogeneity augmented two-tier stochastic frontier. *Journal of Econometrics* (2017), <http://dx.doi.org/10.1016/j.jeconom.2017.05.007>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Estimating Labor Force Joiners and Leavers Using A Heterogeneity Augmented Two-Tier Stochastic Frontier

Tirthatanmoy Das
University of Central Florida and IZA
Tirthatanmoy.Das@ucf.edu

Solomon W. Polachek*
State University of New York at Binghamton (Binghamton University) and IZA
polachek@binghamton.edu

January 3, 2017

Abstract:

In a seminal paper, Basmann (1985) introduced a serial correlation structure based on an intertemporal adjustment mechanism. Basmann's 1985 paper of course built on his previous pioneering work on estimation and identifiability in structural equations leading to 2SLS (Basmann, 1957, 1960). In this paper, we follow a similar path. We derive a non-standard unit root serial correlation formulation for intertemporal adjustments in the labor force participation rate. This leads to a tractable three-error component model, which in contrast to other models embeds heterogeneity into the error structure. Unlike in the typical iid three-error component two-tier stochastic frontier model, our equation's error components are independent but not identically distributed. This leads to a complex nonlinear likelihood function requiring identification through a two-step estimation procedure, which we estimate using Current Population Survey (CPS) data. By transforming the basic equation linking labor force participation to the working age population, this paper devises a new method which can be used to identify labor market joiners and leavers. The method's advantage is its parsimonious data requirements, especially alleviating the need for survey based longitudinal data.

Key Words: Two-tier stochastic frontier; Identification; Labor force dynamics

JEL classification: C23, C51, J21

* We thank two anonymous referees as well as Daniel Slottje for valuable comments and suggestions.

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات