
Bootstrap LM-lag test for spatial dependence in panel data models

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Abstract. This paper applies bootstrap methods to LM-lag test for spatial dependence in panel data models, and LM-lag test is asymptotic pivotal. The consistencies of LM tests and their bootstrap versions are proved, and then the asymptotic refinements of bootstrap LM tests are obtained. It shows that the first order asymptotic distribution of LM-lag test converges as $O((NT)^{-1})$, and the convergence rate of bootstrap LM-lag test is $O((NT)^{-2})$. The error made by the bootstrap LM-lag test approximation to the asymptotic distribution is $O((NT)^{-3/2})$. Compared to asymptotic distribution of LM-lag test, bootstrap LM-lag test gets asymptotic refinements.

1. Introduction

The bootstrap is a method for estimating the distribution of an estimator or test statistic by resampling one's data or a model estimated from the data (Horowitz, 2001). So far, bootstrap is widely applied in cross sectional data, time series and panel data. Many scholars investigate the performance of bootstrap methods in terms of simulation analysis, and few provide the corresponding mathematical proof.

In the classical econometrics, the performance of bootstrap methods is derived based on Edgeworth expansion by Beran (1988), Hall (1992), Horowitz (2001), Hall and Horowitz (1996), Cameron and Trivedi (2005), Godfrey (2009). Recently, bootstrap is extensively focused on its applications in spatial econometrics. Lin et al. (2011) investigate the performance of bootstrap Moran's I test for spatial dependence in cross sectional data, and find that bootstrap Moran's test for spatial dependence is superior to asymptotic Moran's I test in terms of mathematical derivation and Monte Carlo experiments.

Tests for spatial dependence are one of the important essentials in spatial econometric analysis. Both Moran's I and LM tests are usually applied for spatial dependence in cross sectional data and panel data. Many Monte Carlo experiments show that LM tests for spatial dependence have good finite sample properties when the disturbances are normal, however when the disturbances are not normal or with heteroskedasticity, LM tests can have large size distortion and lower power (Anselin et al. (1996), Yang (2015)). So far there are three important and closely associated studies in mathematical derivation. Long et al. (2012) use Edgeworth expansion to prove the validity of bootstrap Moran's I tests for spatial dependence in cross sectional data. Jin and Lee (2015) prove the existence of the Edgeworth expansions for LQ forms with the normal disturbances, and establish an asymptotic expansion of LQ forms based on martingales with no normal disturbances. Yang (2015) find that in finite samples, the LM test referring to asymptotic critical values may suffer from the problems of size distortion and low power, which become worse with a denser spatial weight matrix, and introduces residual-based bootstrap methods to refine asymptotically approximations to the finite sample critical values of the LM statistics. In a word, Edgeworth expansion proposed by Hall (1992) is still the most feasible method that mathematically derives the validity of bootstrap methods. However, all above studies are focused on tests for spatial dependence in cross sectional data. This paper will firstly extend bootstrap LM tests for spatial dependence from cross sectional

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Table of Contents Bootstrap For Panel Data Models

1. Understanding the eBook Bootstrap For Panel Data Models
 - The Rise of Digital Reading Bootstrap For Panel Data Models
 - Advantages of eBooks Over Traditional Books
2. Identifying Bootstrap For Panel Data Models
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Bootstrap For Panel Data Models
 - User-Friendly Interface
4. Exploring eBook Recommendations from Bootstrap For Panel Data Models
 - Personalized Recommendations
 - Bootstrap For Panel Data Models User Reviews and Ratings
 - Bootstrap For Panel Data Models and Bestseller Lists

5. Accessing Bootstrap For Panel Data Models Free and Paid eBooks
 - Bootstrap For Panel Data Models Public Domain eBooks
 - Bootstrap For Panel Data Models eBook Subscription Services
 - Bootstrap For Panel Data Models Budget-Friendly Options
6. Navigating Bootstrap For Panel Data Models eBook Formats
 - ePub, PDF, MOBI, and More
 - Bootstrap For Panel Data Models Compatibility with Devices
 - Bootstrap For Panel Data Models Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Bootstrap For Panel Data Models
 - Highlighting and Note-Taking Bootstrap For Panel Data Models
 - Interactive Elements Bootstrap For Panel Data Models
8. Staying Engaged with Bootstrap For Panel Data Models
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Bootstrap For Panel Data Models
9. Balancing eBooks and Physical Books Bootstrap For Panel Data Models
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Bootstrap For Panel Data Models
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Bootstrap For Panel Data Models
 - Setting Reading Goals Bootstrap For Panel Data Models
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Bootstrap For Panel Data Models
 - Fact-Checking eBook Content of Bootstrap For Panel Data Models
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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