

## Citation metadata

Author: Brian S. Yandell  
Date: Sept. 1990  
From: Journal of the American Statistical Association (Vol. 85, Issue 411)  
Publisher: American Statistical Association  
Document Type: Book review  
Length: 522 words

## Main content

Article Preview :

Spatial Econometrics: Methods and Models.

Luc Anselin. Dordrecht: Kluwer Academic, 1988. xvi + 284 pp. Dfl. 145; \$74 (U.S.A.); [pounds sterling]39 (U.K.).

This book identifies a new field somewhere between spatial statistics and standard econometrics, incorporating spatial effects (dependence and heterogeneity) of econometric processes into statistical models. This field differs from spatial statistics by focusing on inference from models based on econometric theory rather than pursuing the data-driven approaches of many nonparametric statistical methods. The author readily admits that the latter distinction is somewhat arbitrary, although he takes an econometric viewpoint throughout the book.

The book is divided into three parts--foundations, inference (estimation and testing), and validation--with the requisite introduction and conclusions. Practical comments and intuitive restatement of mathematical principles abound. Real examples are limited to one chapter, however, and...

[Access from your library](#)

This is a preview. Get the full text through your school or public library.

## Source Citation

### Source Citation

Yandell, Brian S. "Spatial Econometrics: Methods and Models." *Journal of the American Statistical Association*, vol. 85, no. 411, 1990, p. 905+. Accessed 27 Nov. 2020.

**Gale Document Number:** GALE|A257779775

## Explore

This is a preview. Get the full text through your school or public library.

[Access from your library](#)

## Footer

- [About](#)
- [Contact Us](#)
- [Terms of Use](#)
- [Privacy Policy](#)
- [Accessibility](#)

Spatial econometrics is the field where spatial analysis and econometrics intersect. The term "spatial econometrics" was introduced for the first time by the Belgian economist Jean Paelinck (universally recognised as the father of the discipline) in the general address he delivered to the annual meeting of the Dutch Statistical Association in May 1974 (Paelinck and Klaassen, 1979). In general, econometrics differs from other branches of statistics in focusing on theoretical models, whose parameters Spatial econometrics deals with spatial dependence and spatial heterogeneity, critical aspects of the data used by regional scientists. These characteristics may

cause standard econometric techniques to become inappropriate. In this book, I combine several recent research results to construct a. Free Preview. © 1988. Spatial Econometrics: Methods and Models. Authors: Anselin, L. Free Preview. The MATLAB spatial econometrics functions used to apply the spatial econometric models discussed in this text rely on many of the functions in the Econometrics Toolbox. The spatial econometric functions constitute a "library" within the broader set of econometric functions. To use the spatial econometrics functions library you need to install the entire set of Econometrics Toolbox functions in MATLAB. An applied model-based approach is taken where various spatial econometric methods are introduced in the context of spatial data sets and associated models based on the data. The remaining chapters of the text are organized along the lines of alternative spatial econometric estimation procedures. Spatial Econometrics: Methods and Models. Article (PDF Available) in Economic Geography 65(2):160 · April 1989. Official Full-Text Publication: Spatial Econometrics: Methods and Models on ResearchGate, the professional network for scientists. researchgate.net. Spatial Econometrics: Methods and Models. Official Full-Text Publication: Spatial Econometrics: Methods and Models on ResearchGate, the professional network for scientists. The course combines theory and applications (in the areas of socio-spatial criminology, spatial epidemiology, human geography, spatial economics) with hands-on experience of some of the methods through practical classes. summerschool.fflch.usp.br. Spatial Data Analysis with Spatial Econometrics.