

Applied Econometrics with R (Use R!)

By Christian Kleiber, Achim Zeileis

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Here is the first book on applied econometrics using the R system for statistical computing and graphics. It presents hands-on examples for a wide range of models, from classical linear regression models for cross-section to recent semiparametric extensions.

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Applied Econometrics with R (Use R!) By Christian Kleiber, Achim Zeileis Bibliography

- Sales Rank: #387392 in Books
- Published on: 2008-08-28
- Released on: 2008-08-28
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .54" w x 6.10" l, .75 pounds
- Binding: Paperback
- 222 pages

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Editorial Review

Review

Researchers in quantitative social sciences in general, and econometrics in particular, have often favored scripting languages such as GAUSS or Stat, or packages such as EViews. Introducing R to this particular audience could therefore be a well-appreciated title among the growing number of publications about R…. So, is this a good introduction of R for econometricians? Absolutely? with a well-rounded selection of available methodologies, both classic and current, and a good focus on introducing graphical methods, as well as gently covering more novel and therefore less familiar approaches, it fulfills its task with aplomb. The writing style is conversational without being shallow. (Dirk Eddelbuettel, Journal of Statistical Software, February 2009, Vol. 29, Book Review 14)

From the Back Cover

This is the first book on applied econometrics using the R system for statistical computing and graphics. It presents hands-on examples for a wide range of econometric models, from classical linear regression models for cross-section, time series or panel data and the common non-linear models of microeconometrics such as logit, probit and tobit models, to recent semiparametric extensions. In addition, it provides a chapter on programming, including simulations, optimization, and an introduction to R tools enabling reproducible econometric research.

An R package accompanying this book, AER, is available from the Comprehensive R Archive Network (CRAN) at http://CRAN.R-project.org/package=AER.

It contains some 100 data sets taken from a wide variety of sources, the full source code for all examples used in the text plus further worked examples, e.g., from popular textbooks. The data sets are suitable for illustrating, among other things, the fitting of wage equations, growth regressions, hedonic regressions, dynamic regressions and time series models as well as models of labor force participation or the demand for health care.

The goal of this book is to provide a guide to R for users with a background in economics or the social sciences. Readers are assumed to have a background in basic statistics and econometrics at the undergraduate level. A large number of examples should make the book of interest to graduate students, researchers and practitioners alike.

Christian Kleiber is Professor of Econometrics and Statistics at Universität Basel, Switzerland. Achim Zeileis is Assistant Professor in the Dept. of Statistics and Mathematics at Wirtschaftsuniversität Wien, Austria. R users since version 0.64.0, they have been collaborating on econometric methodology in R, including several R packages, for the past eight years.

Users Review

From reader reviews:

Ira Knudsen:

As people who live in the modest era should be up-date about what going on or information even knowledge to make them keep up with the era that is certainly always change and make progress. Some of you maybe will certainly update themselves by reading books. It is a good choice in your case but the problems coming to you actually is you don't know which you should start with. This Applied Econometrics with R (Use R!) is our recommendation so you keep up with the world. Why, because this book serves what you want and wish in this era.

Walter Godinez:

The event that you get from Applied Econometrics with R (Use R!) is a more deep you digging the information that hide within the words the more you get interested in reading it. It doesn't mean that this book is hard to comprehend but Applied Econometrics with R (Use R!) giving you excitement feeling of reading. The article writer conveys their point in certain way that can be understood by means of anyone who read it because the author of this e-book is well-known enough. This kind of book also makes your own personal vocabulary increase well. So it is easy to understand then can go along, both in printed or e-book style are available. We highly recommend you for having this specific Applied Econometrics with R (Use R!) instantly.

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