



# 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**

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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:**

#### **Johnnie Nystrom:**

The reserve untitled Applied Econometrics with R (Use R!) is the book that recommended to you to study. You can see the quality of the publication content that will be shown to anyone. The language that article author use to explained their way of doing something is easily to understand. The article writer was did a lot of analysis when write the book, therefore the information that they share for your requirements is absolutely accurate. You also might get the e-book of Applied Econometrics with R (Use R!) from the publisher to make you considerably more enjoy free time.

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#### **Charles Frye:**

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