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PDF Analysing  
Ecological Data  
By Alain Zuur May  
3 2007

**Analysing  
Ecological  
Data By  
Alain Zuur  
May 3 2007**

**English historical  
linguistics is a  
subfield of linguistics  
which has developed**

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**theories and methods  
for exploring the  
history of the English  
language. This  
Handbook provides  
an account of state-of-  
the-art research on  
this history. It offers  
an in-depth survey of  
materials, methods,  
and language-  
theoretical models  
used to study the**

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**long diachrony of  
English. The  
frameworks covered  
include corpus  
linguistics, historical  
sociolinguistics,  
historical pragmatics  
and manuscript  
studies, among  
others. The chapters,  
by leading experts,  
examine the  
interplay of language**

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**theory and empirical  
data throughout,  
critically assessing  
the work in the field.**

**Of particular  
importance are the  
diverse data sources  
which have become  
increasingly  
available in  
electronic form,  
allowing the  
discipline to develop**

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in new directions.  
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3, 2007  
The Handbook offers  
access to the rich and  
many-faceted  
spectrum of work in  
English historical  
linguistics, past and  
present, and will be  
useful for  
researchers and  
students interested in  
hands-on research  
on the history of

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**English.**

**The biological sciences cover a broad array of literature types, from younger fields like molecular biology with its reliance on recent journal articles, genomic databases, and protocol manuals to classic fields such as**

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**taxonomy with its  
scattered literature  
found in**

**monographs and  
journals from the  
past three centuries.  
Using the Biological  
Literature: A  
Practical Guide,  
Fourth Edition is an  
annotated guide to  
selected resources in  
the biological**

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**sciences, presenting a  
wide-ranging list of  
important sources.**

**This completely  
revised edition  
contains numerous  
new resources and  
descriptions of all  
entries including  
textbooks. The guide  
emphasizes current  
materials in the  
English language**



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**and includes  
retrospective  
references for  
historical perspective  
and to provide access  
to the taxonomic  
literature. It covers  
both print and  
electronic resources  
including  
monographs,  
journals, databases,  
indexes and**

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**abstracting tools,  
websites, and associa  
tions—providing  
users with listings of  
authoritative  
informational  
resources of both  
classical and recently  
published works.  
With chapters  
devoted to each of  
the main fields in the  
basic biological**

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**sciences, this book offers a guide to the best and most up-to-date resources in biology. It is appropriate for anyone interested in searching the biological literature, from undergraduate students to faculty, researchers, and librarians. The guide**

**includes a supplementary website dedicated to keeping URLs of electronic and web-based resources up to date, a popular feature continued from the third edition.**

**With his insightful and wide-ranging theory of**

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**recognition,  
Axel Honneth has  
decisively reshaped  
the Frankfurt School  
tradition of critical  
social theory.**

**Combining insights  
from  
philosophy, sociology,  
psychology, history,  
political economy,  
and cultural critique,  
Honneth's work**

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proposes nothing less  
than an account of

the moral

infrastructure of

human sociality and

its relation to the

perils and promise of

contemporary

social life. This book

provides an

accessible overview

of Honneth's

main contributions

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**across a variety of  
fields, assessing the  
strengthsand**

**weaknesses of his  
thought. Christopher  
Zurn clearly  
explainsHonneth's  
multi-faceted theory  
of recognition and  
itsrelation to diverse  
topics: individual  
identity, morality,  
activistmovements,**

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**progress, social  
pathologies,  
capitalism,  
justice, freedom, and  
critique. In so doing,  
he places  
Honneth's theory in  
a broad intellectual  
context,  
encompassing classic  
social theorists such  
as Kant, Hegel,  
Marx, Freud, Dewey,**



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**Adorno  
and Habermas, as  
well as contemporary  
trends in social  
theory and political  
philosophy. Treating  
the full range of  
Honneth's corpus,  
including his major  
new work on social  
freedom  
and democratic  
ethical life, this book**

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**is the most up-to-date guide available. Axel Honneth will be invaluable to students and scholars working across the humanities and social sciences, as well as anyone seeking a clear guide to the work of one of the most influential**

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**theorists writing  
today.**

**From everyday apps  
to complex  
algorithms, Ruha  
Benjamin cuts  
through tech-  
industry hype to  
understand how  
emerging  
technologies can  
reinforce White  
supremacy and**

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**deepen social  
inequity. Benjamin  
argues that  
automation, far from  
being a sinister story  
of racist  
programmers  
scheming on the  
dark web, has the  
potential to hide,  
speed up, and deepen  
discrimination while  
appearing neutral**

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**and even benevolent  
when compared to  
the racism of a  
previous era.  
Presenting the  
concept of the “New  
Jim Code,” she  
shows how a range of  
discriminatory  
designs encode  
inequity by explicitly  
amplifying racial  
hierarchies; by**

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**ignoring but thereby  
replicating social  
divisions; or by  
aiming to fix racial  
bias but ultimately  
doing quite the  
opposite. Moreover,  
she makes a  
compelling case for  
race itself as a kind  
of technology,  
designed to stratify  
and sanctify social**

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**injustice in the  
architecture of  
everyday life. This  
illuminating guide  
provides conceptual  
tools for decoding  
tech promises with  
sociologically  
informed skepticism.  
In doing so, it  
challenges us to  
question not only the  
technologies we are**

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**sold but also the ones  
we ourselves**

**manufacture. Visit**

**the book's free**

**Discussion Guide**

**here.**

**A Frequentist and  
Bayesian Perspective  
for Ecologists**

**Basic Methods of  
Policy Analysis and  
Planning -- Pearson**

**eText**



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**Axel Honneth**

**Multivariate**

**Analysis of**

**Ecological Data**

**Beginner's guide to**

**spatial, temporal, and**

**spatial-temporal**

**ecological data**

**analysis with R-**

**INLA**

**A Practical Guide,**

**Fourth Edition**

**Updated in its 3rd**

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edition, Basic  
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Methods of  
Policy Analysis  
and Planning  
presents quickly  
applied methods  
for analyzing and  
resolving  
planning and  
policy issues at  
state, regional,  
and urban levels.

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3 2007  
Divided into two  
parts, Methods  
which presents

quick methods in  
nine chapters

and is organized  
around the steps  
in the policy

analysis process,

and Cases which  
presents seven

policy cases,

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ranging in degree  
of complexity, the  
text provides

readers with the

resources they

need for effective

policy planning

and analysis.

Quantitative and

qualitative

methods are

systematically

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combined to  
address policy  
dilemmas and  
urban planning  
problems.

Readers and  
analysts utilizing  
this text gain  
comprehensive  
skills and  
background  
needed to impact

public policy.  
A Hands-On Way  
to Learning Data  
AnalysisPart of  
the core of  
statistics, linear  
models are used  
to make  
predictions and  
explain the  
relationship  
between the

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response and the  
predictors.

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Understanding  
linear models is  
crucial to a  
broader  
competence in  
the practice of  
statistics. Linear  
Models with R,  
Second Edition  
explains how to

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use linear models  
By Alain Zuur May

Praise for the

3 2007  
First Edition " . . .

an excellent

addition to an

upper-level

undergraduate

course on

environmental

statistics, and . . .

a 'must-have'

desk reference



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Ecological Data  
for environmental  
practitioners  
dealing with  
censored  
datasets."

—Vadose Zone

Journal

Statistical

Methods for

Censored

Environmental

Data Using

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Minitab® and R,  
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3 2007  
Second Edition

introduces and  
explains methods  
for analyzing and  
interpreting  
censored data in  
the  
environmental  
sciences.

Adapting survival  
analysis

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techniques from other fields, the book translates well-established methods from other disciplines into new solutions for environmental studies. This new edition applies methods of

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survival analysis,  
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including

3 2007  
methods for

interval-censored

data to the

interpretation of

low-level

contaminants in

environmental

sciences and

occupational

health. Now

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incorporating the  
freely available R  
software as well  
as Minitab® into

the discussed  
analyses, the  
book features

newly developed  
and updated  
material

including: A new  
chapter on

multivariate  
methods for  
censored data  
Use of interval-  
censored  
methods for  
treating true  
nondetects as  
lower than and  
separate from  
values between  
the detection and

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quantitation  
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limits ("remarked  
data") A section  
on summing data  
with nondetects  
A newly written  
introduction that  
discusses  
invasive data,  
showing why  
substitution  
methods fail

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Expanded  
coverage of  
graphical  
methods for  
censored data  
The author writes  
in a style that  
focuses on  
applications  
rather than  
derivations, with  
chapters



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organized by key  
objectives such

as computing

intervals,

comparing

groups, and

correlation.

Examples

accompany each

procedure,

utilizing real-

world data that

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can be analyzed  
using the  
Minitab® and R  
software macros  
available on the  
book's related  
website, and  
extensive  
references direct  
readers to  
authoritative  
literature from

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the  
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environmental  
sciences.

Statistics for  
Censored  
Environmental  
Data Using  
Minitab® and R,  
Second Edition is  
an excellent book  
for courses on  
environmental

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statistics at the upper-

undergraduate

and graduate

levels. The book

also serves as a

valuable

reference for environmental

professionals,

biologists, and

ecologists who

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3 2007  
focus on the  
water sciences,  
air quality, and  
soil science.

The book  
describes and  
discusses the  
numerical  
methods which  
are successfully  
being used for  
analysing

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ecological data,  
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using a clear and  
comprehensive

approach. These  
methods are  
derived from the  
fields of  
mathematical  
physics,  
parametric and  
nonparametric  
statistics,

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information  
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theory, numerical  
taxonomy,  
archaeology,  
psychometry,  
sociometry,  
econometry and  
others.

Compared to the  
first edition of  
Numerical  
Ecology, this

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second edition  
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includes three  
new chapters,  
dealing with the  
analysis of  
semiquantitative  
data, canonical  
analysis and  
spatial analysis.  
New sections  
have been added  
to almost all



other chapters.  
There are  
sections listing  
available  
computer  
programs and  
packages at the  
end of several  
chapters. As in  
the previous  
English and  
French editions,

there are numerous examples from the ecological literature, and the choice of methods is facilitated by several synoptic tables.

Linear Models  
with R

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Statistical  
Computing  
AMSTAT News  
The Miombo in  
Transition  
Methods and  
Applications  
Bayesian  
Approach to  
Regression,  
ANOVA, Mixed  
Models and

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Related Analyses  
By Alain Zuur, May

3 2007  
This is the third,  
newly revised and  
extended edition of  
this successful book  
(that has already  
been translated into  
three languages).

Like the previous  
editions, it is entirely  
based on the  
programming  
language and

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environment R and is still thoroughly hands-on (with thousands of lines of heavily annotated code for all computations and plots). However, this edition has been updated based on many workshops/bootcamps taught by the author all over

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the world for the  
past few years: This  
edition has been  
didactically  
streamlined with  
regard to its  
exposition, it adds  
two new chapters –  
one on mixed-  
effects modeling,  
one on classification  
and regression trees  
as well as random

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forests – plus it  
features new  
discussion of  
curvature,  
orthogonal and  
other contrasts,  
interactions,  
collinearity, the  
effects and  
emmeans  
packages,  
autocorrelation/runs,  
some more bits on

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programming,  
writing statistical  
functions, and  
simulations, and  
many practical tips  
based on 10 years  
of teaching with  
these materials.

Seit den Anfängen  
der ökologischen  
Pflanzenzüchtung  
spielt der Gedanke,  
dass Sorten sich an



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die spezifischen  
Umweltbedingungen  
anpassen können,  
eine wichtige Rolle.  
Dieser Frage geht  
die vorliegende  
Arbeit anhand von  
zwei langjährig im  
biologischen  
Landbau  
gezüchteten Sorten  
nach. Auf dem  
Wege explorativer

Datenanalyse  
werden eine Fülle  
von Phänomenen  
untersucht und  
Zusammenhänge  
zwischen diesen  
und Umweltfaktoren  
analysiert. Der  
Populationsdynamik  
wird besondere  
Beachtung  
geschenkt. Aus den  
Einzelergebnissen

wird ein plausibles Szenario für den Anpassungsvorgang der Sorte 'Erfurter Zwerg' unter extensiven Anbaubedingungen in acht Jahren zwischen 1996 und 2012 entwickelt. Es zeigt sich, dass ein Anpassungsprozess durch komplexes

Zusammenwirken  
von bewusster  
Selektion und  
adaptiven  
Prozessen  
angenommen  
werden muss. Aus  
den Ergebnissen  
werden praktische  
Hinweise zur  
Weiterentwicklung  
der ökologischen  
Blumenkohlzüchtung

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für die  
Selbstversorgung  
und für den

Erwerbsanbau  
abgeleitet.

Introduction to  
WinBUGS for  
Ecologists

introduces applied  
Bayesian modeling  
to ecologists using  
the highly  
acclaimed, free

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WinBUGS software.  
It offers an  
understanding of  
statistical models as  
abstract  
representations of  
the various  
processes that give  
rise to a data set.  
Such an  
understanding is  
basic to the  
development of

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inference models  
tailored to specific  
sampling and  
ecological  
scenarios. The book  
begins by  
presenting the  
advantages of a  
Bayesian approach  
to statistics and  
introducing the  
WinBUGS software.  
It reviews the four

most common  
statistical  
distributions: the  
normal, the uniform,  
the binomial, and  
the Poisson. It  
describes the two  
different kinds of  
analysis of variance  
(ANOVA): one-way  
and two- or  
multiway. It looks at  
the general linear



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model, or ANCOVA,  
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in R and WinBUGS.  
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It introduces  
generalized linear  
model (GLM), i.e.,  
the extension of the  
normal linear model  
to allow error  
distributions other  
than the normal.  
The GLM is then  
extended contain  
additional sources

of random variation to become a generalized linear mixed model (GLMM) for a Poisson example and for a binomial example. The final two chapters showcase two fairly novel and nonstandard versions of a

GLMM. The first is the site-occupancy model for species distributions; the second is the binomial (or N-) mixture model for estimation and modeling of abundance.

Introduction to the essential theories of key models used by

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ecologists Complete  
juxtaposition of  
3, 2007

classical analyses in

R and Bayesian

analysis of the same

models in WinBUGS

Provides every

detail of R and

WinBUGS code

required to conduct

all analyses

Companion Web

Appendix that

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contains all code  
contained in the  
book and additional  
material (including  
more code and  
solutions to  
exercises)

Many statistical  
modelling and data  
analysis techniques  
can be difficult to  
grasp and apply,  
and it is often

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necessary to use  
computer software  
to aid the  
implementation of  
large data sets and  
to obtain useful  
results. S-Plus is  
recognised as one  
of the most powerful  
and flexible  
statistical software  
packages, and it  
enables the user to

apply a number of statistical methods, ranging from simple regression to time series or multivariate analysis. This text offers extensive coverage of many basic and more advanced statistical methods, concentrating on

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graphical inspection,  
and features step-by-  
step instructions to  
help the non-

statistician to  
understand fully the

methodology. \*

Extensive coverage  
of basic,

intermediate and  
advanced statistical  
methods \* Uses S-  
Plus, which is



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recognised globally  
as one of the most  
powerful and flexible  
statistical software  
packages \*

Emphasis is on  
graphical data  
inspection,  
parameter  
estimation and  
model criticism \*

Features hundreds  
of worked examples

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to illustrate the  
techniques  
described \*

Accessible to  
scientists from a  
large number of  
disciplines with  
minimal statistical  
knowledge \* Written  
by a leading figure  
in the field, who  
runs a number of  
successful

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international short  
courses \*

Accompanied by a  
Web site featuring  
worked examples,  
data sets, exercises  
and solutions A  
valuable reference  
resource for  
researchers,  
professionals,  
lecturers and  
students from

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statistics, the life  
sciences, medicine,  
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engineering,

economics and the  
social sciences.

A Beginner's Guide  
to Data Exploration  
and Visualisation  
with R

Toward a Sociology  
of Algorithms

Journal of the

American Statistical

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Association  
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Time Series

Analysis by State

Space Methods

A Practical

Introduction

Tracking

Environmental

Change Using Lake

Sediments

This edited volume  
focuses on the latest  
and most impactful

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advancements of  
multimedia data  
globally available for  
environmental and  
earth biodiversity.  
The data reflects the  
status, behavior,  
change as well as  
human interests and  
concerns which are  
increasingly crucial  
for understanding  
environmental issues

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and phenomena.

This volume

addresses the need  
for the development  
of advanced  
methods, techniques  
and tools for  
collecting,  
managing,  
analyzing,  
understanding and  
modeling  
environmental &

biodiversity data, including the automated or collaborative species identification, the species distribution modeling and their environment, such as the air quality or the bio-acoustic monitoring.

Researchers and practitioners in



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multimedia and  
environmental topics  
will find the chapters  
essential to their  
continued studies.

This book provides a  
practical introduction  
to analyzing  
ecological data using  
real data sets. The  
first part gives a  
largely non-  
mathematical

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introduction to data  
exploration,  
univariate methods  
(including GAM and  
mixed modeling  
techniques),  
multivariate analysis,  
time series analysis,  
and spatial statistics.

The second part  
provides 17 case  
studies. The case  
studies include

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topics ranging from terrestrial ecology to marine biology and can be used as a template for a reader's own data analysis. Data from all case studies are available from [www.highstat.com](http://www.highstat.com). Guidance on software is provided in the book.

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Miombo woodlands  
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issues. The ecology  
of miombo  
woodlands.

Population biology of  
miombo tree.

Miombo woodlands  
in the wider context:  
macro-economic and  
inter-sectoral  
influences. Rural

households and  
miombo woodlands:  
use, value and  
management. Trade  
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products from the  
miombo region.  
Managing miombo  
woodland.  
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arrangements  
governing the use  
and the

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Beginner's Guide to  
Spatial, Temporal  
and Spatial-temporal  
Ecological Data  
Analysis with R-  
INLA

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and GLMM

**Fresh waters are disproportionately rich in species, and represent global hotspots of biodiversity. However, they are also hotspots of endangerment.**



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**We commonly think of society as made of and by humans, but with the proliferation of machine learning and AI technologies, this is clearly no longer the case. Billions of automated**

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**systems tacitly  
contribute to the  
social**

**construction of  
reality by  
drawing  
algorithmic  
distinctions  
between the  
visible and the  
invisible, the  
relevant and the  
irrelevant, the**

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**likely and the  
unlikely - on and  
beyond**

**platforms.**

**Drawing on the  
work of Pierre  
Bourdieu, this  
book develops an  
original sociology  
of algorithms as  
social agents,  
actively  
participating in**

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**social life.**  
**Through a wide**  
**range of**  
**examples,**  
**Massimo Airoidi**  
**shows how**  
**society shapes**  
**algorithmic code,**  
**and how this**  
**culture in the**  
**code guides the**  
**practical**  
**behaviour of the**

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**code in the  
culture, shaping  
society in turn.**

**The 'machine  
habitus' is the  
generative  
mechanism at  
work throughout  
myriads of  
feedback loops  
linking humans  
with artificial  
social agents, in**

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**the context of  
digital  
infrastructures  
and pre-digital  
social structures.  
Machine Habitus  
will be of great  
interest to  
students and  
scholars in  
sociology, media  
and cultural  
studies, science**

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**and technology  
studies and  
information  
technology, and  
to anyone  
interested in the  
growing role of  
algorithms and AI  
in our social and  
cultural life.  
This book  
discusses  
advanced**

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**statistical  
methods that can  
be used to  
analyse  
ecological data.  
Most  
environmental  
collected data  
are measured  
repeatedly over  
time, or space  
and this requires  
the use of GLMM**



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or GAMM  
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**methods. The  
book starts by  
revising  
regression,  
additive  
modelling, GAM  
and GLM, and  
then discusses  
dealing with  
spatial or  
temporal  
dependencies**

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**and nested data.**

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**Proper designation of**

**Essential Fish**

**Habitat (EFH) is a**

**highly important**

**spatial measure**

**in any**

**management of**

**fishery resources.**

**EFH is defined as**

**those waters and**

**substrates**

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**necessary to fish  
for spawning,  
breeding,  
feeding, or  
growth to  
maturity, a  
definition that  
includes the  
physical,  
chemical and  
biological  
properties of  
marine areas and**

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**the associated  
sediment and  
biological  
assemblages that  
sustain fish  
populations  
throughout their  
full life cycle.**

**This book  
presents latest  
advances in EFH  
mapping and  
modelling and**

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**introduces the  
environmental  
approach to EFH  
identification  
through the  
combined use of  
latest  
technologies and  
advanced  
techniques, such  
as Remote  
Sensing,  
Geographic**

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**Information  
Systems and  
Spatial Statistics.**

**The contents of  
this book include  
overviews and  
comparisons of  
different  
approaches on  
species habitat  
modelling,  
methods to  
identify**

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**teleconnection  
patterns between  
large-scale meteo-  
oceanic  
phenomena and  
local  
environmental  
variation, and  
EFH maps for  
cephalopod,  
shrimp, hake,  
anchovy, sardine,  
and swordfish**

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resources in the  
Mediterranean.  
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**The aims of this book are to provide accumulated knowledge on marine species essential habitat mapping and to be a source for further developments in**



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**the important  
topic of marine  
resource**

**management.**

**A Beginner's**

**Guide to R**

**Industrial**

**Revolution 4.0**

**Woodlands and**

**Welfare in Africa**

**Race After**

**Technology**

**Analysing**

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**Challenges and  
choices**

**Data Analysis in  
Vegetation  
Ecology, 3rd  
Edition**

Numerical and  
statistical methods  
have rapidly  
become part of a  
palaeolimnologist's

tool-kit. They are used to explore and summarise complex data, reconstruct past environmental variables from fossil assemblages, and test competing hypotheses about the causes of

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observed changes  
in lake biota  
through history.

This book brings  
together a wide  
array of numerical  
and statistical  
techniques  
currently available  
for use in  
palaeolimnology  
and other

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branches of  
palaeoecology.

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Visit <http://extras.springer.com> the Springer's Extras website to view data-sets, figures, software, and R scripts used or mentioned in this book.

This book presents

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Generalized Linear  
Models (GLM) and

Generalized Linear  
Mixed Models

(GLMM) based on  
both frequency-

based and  
Bayesian

concepts.

This new edition  
updates Durbin &  
Koopman's

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the state space

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approach to time

series analysis.

The distinguishing

feature of state

space time series

models is that

observations are

regarded as made

up of distinct

components such

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as trend, seasonal,  
regression

elements and

disturbance terms,

each of which is

modelled

separately. The

techniques that

emerge from this

approach are very

flexible and are

capable of



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handling a much wider range of problems than the main analytical system currently in use for time series analysis, the Box-Jenkins ARIMA system. Additions to this second edition include the filtering of

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nonlinear and non-Gaussian series.

Part I of the book obtains the mean and variance of the state, of a variable intended to measure the effect of an interaction and of regression coefficients, in

terms of the observations. Part II extends the treatment to nonlinear and non-normal models. For these, analytical solutions are not available so methods are based on simulation.

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This book arises from a workshop on the application of network analysis to ecological flow networks. The purpose is to develop a new tool for comparison of ecosystems, paying particular attention to marine

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ecosystems. After a review of the methods and theory, data from a variety of marine habitats are analyzed and compared.

Readers are shown how to calculate such properties as

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cycling index,  
average path  
length, flow

diversity, indices of  
ecosystem growth  
and development  
and the origins  
and fates of  
particular flows.

This is a highly  
original  
contribution to the

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growing field of  
ecosystem theory,  
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in which attention  
is paid to the  
properties of the  
total, functioning  
ecosystem, rather  
than to the  
properties of  
individual  
organisms. New  
insights are

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provided into the  
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workings of marine  
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systems.

An Introduction to  
Data Analysis  
using S-Plus  
How Women Made  
the West Rich  
Network Analysis  
in Marine Ecology  
Introduction to  
WinBUGS for



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Ecologists  
Data Handling and  
Numerical  
Techniques  
Beginner's Guide  
to Spatial,  
Temporal, and  
Spatial-temporal  
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Analysis with R-  
INLA: GAM and  
zero-inflated

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models  
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**Annotation A  
training tool with  
several modules  
which include  
modeling  
worksheets.**

**Training modules  
cover Assessing  
Policy Options for  
Teacher Training  
and Pay,**

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**Comparative Policy**

**Analysis in**

**Education,**

**Management of**

**Teacher**

**Deployment and**

**Classroom**

**Processes and Cost-**

**Effectiveness**

**Analysis in**

**Education.**

**The radical**

**Page 123/169**

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**transformations to  
which the economy  
and society have  
been subjected for  
decades have  
gained momentum  
in recent years, not  
least because of the  
coronavirus  
pandemic, the  
consequences of  
which are yet to be**

**fully understood.  
As a result, certain  
economic models  
and business  
practices are  
becoming less  
sustainable. One of  
the reasons for this  
is the rapid  
advance of  
Revolution 4.0. The  
issues raised in this**

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**book are central to  
understanding the  
theoretical and**

**practical aspects of  
the Fourth**

**Industrial**

**Revolution and its  
overwhelming**

**impact on emerging  
socio-economic**

**relations. The book  
addresses the**

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**future and  
flexibility of the  
labour market in  
the era of digital  
transformation;  
issues related to the  
emergence of new  
patterns of  
production and the  
distribution of  
public services. It  
examines the**

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**impact of  
Revolution 4.0 on  
the global business  
services sector and  
business project  
management  
models, in times of  
increasing  
complexity. The  
book covers a  
broad spectrum of  
concerns associated**



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with Industry 4.0,  
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such as social,  
economic,

technological, and  
environmental,  
making it a  
comprehensive  
resource offering  
state-of-the-art  
knowledge.

Further, it includes  
a discussion on the

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**perspectives for the  
development of**

**Revolution 4.0 in**

**the context of the**

**post-pandemic**

**world. This book**

**skillfully combines**

**theoretical**

**considerations with**

**practical**

**applications,**

**offering a valuable,**

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**engaging and  
accessible resource  
for researchers,  
scholars, students,  
policymakers,  
public decision-  
makers, and  
businesspeople  
alike.**

**The high-level  
language of R is  
recognized as one**

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**of the most  
powerful and  
flexible statistical  
software  
environments, and  
is rapidly becoming  
the standard  
setting for  
quantitative  
analysis, statistics  
and graphics. R  
provides free access**

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**to unrivalled  
coverage and  
cutting-edge  
applications,  
enabling the user to  
apply numerous  
statistical methods  
ranging from  
simple regression  
to time series or  
multivariate  
analysis. Building**

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**on the success of  
the author's  
bestselling**

**Statistics: An  
Introduction using  
R, The R Book is  
packed with  
worked examples,  
providing an all  
inclusive guide to  
R, ideal for novice  
and more**

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**accomplished users  
alike. The book**

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**assumes no**

**background in**

**statistics or**

**computing and**

**introduces the**

**advantages of the R**

**environment,**

**detailing its**

**applications in a**

**wide range of**

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**disciplines.**

**Provides the first  
comprehensive  
reference manual  
for the R language,  
including practical  
guidance and full  
coverage of the  
graphics facilities.**

**Introduces all the  
statistical models  
covered by R,**



**beginning with  
simple classical  
tests such as chi-  
square and t-test.  
Proceeds to  
examine more  
advance methods,  
from regression  
and analysis of  
variance, through  
to generalized  
linear models,**

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**generalized mixed  
models, time series,  
spatial statistics,  
multivariate  
statistics and much  
more. The R Book  
is aimed at  
undergraduates,  
postgraduates and  
professionals in  
science,  
engineering and**

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**medicine. It is also  
ideal for students  
and professionals  
in statistics,  
economics,  
geography and the  
social sciences.**

**The 3rd edition of  
this popular  
textbook introduces  
the reader to the  
investigation of**

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**vegetation systems  
with an emphasis  
on data analysis.**

**The book succinctly  
illustrates the  
various paths  
leading to high  
quality data  
suitable for pattern  
recognition, pattern  
testing, static and  
dynamic modelling**

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**and model testing  
including spatial  
and temporal  
aspects of  
ecosystems. Step-by-  
step introductions  
using small  
examples lead to  
more demanding  
approaches  
illustrated by real  
world examples**

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**aimed at explaining  
interpretations. All  
data sets and  
examples described  
in the book are  
available online  
and are written  
using the freely  
available statistical  
package R. This  
book will be of  
particular value to**

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**beginning graduate  
students and  
postdoctoral  
researchers of  
vegetation ecology,  
ecological data  
analysis, and  
ecological  
modelling, and  
experienced  
researchers  
needing a guide to**

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**new methods. A  
completely revised  
and updated  
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popular  
introduction to  
data analysis in  
vegetation ecology.  
Includes practical  
step-by-step  
examples using the  
freely available**



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**statistical package**

**R. Complex**

**concepts and**

**operations are**

**explained using**

**clear illustrations**

**and case studies**

**relating to real**

**world phenomena.**

**Emphasizes**

**method selection**

**rather than just**

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giving a set of  
recipes.  
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**The Sex Factor**  
**Umweltanpassung**  
**offen blühender**  
**Blumenkohlsorten**  
**Statistics for**  
**Censored**  
**Environmental**  
**Data Using**  
**Minitab and R**  
**Economic**

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**Foundations and  
Practical  
Implications**

**Machine Habitus**

**Essential Fish**

**Habitat Mapping**

**in the**

**Mediterranean**

*Based on their*

*extensive*

*experience with*

*teaching R and*

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*statistics to applied  
scientists, the*

*authors provide a  
beginner's guide to*

*R. To avoid the  
difficulty of*

*teaching R and  
statistics at the  
same time,*

*statistical methods  
are kept to a  
minimum. The text*

*covers how to*

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*download and  
install R, import  
and manage data,  
elementary  
plotting, an  
introduction to  
functions, advanced  
plotting, and  
common beginner  
mistakes. This book  
contains everything  
you need to know  
to get started with*

R.

*La diversidad biológica es fruto de la interacción entre numerosas especies, ya sean marinas, vegetales o animales, a la par que de los muchos factores limitantes que caracterizan el medio que habitan.*

*El análisis*

*multivariante  
utiliza las  
relaciones entre  
diferentes variables  
para ordenar los  
objetos de estudio  
según sus  
propiedades  
colectivas y luego  
clasificarlos; es  
decir, agrupar  
especies o  
ecosistemas en*

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*distintas clases  
compuestas cada  
una por entidades  
con propiedades  
parecidas. El fin  
último es relacionar  
la variabilidad  
biológica observada  
con las  
correspondientes  
características  
medioambientales.*

*Multivariate*



*Analysis of  
Ecological Data  
explica de manera  
completa y  
estructurada cómo  
analizar e  
interpretar los  
datos ecológicos  
observados sobre  
múltiples variables,  
tanto biológicos  
como  
medioambientales.*

*Tras una  
introducción  
general a los datos  
ecológicos  
multivariantes y la  
metodología  
estadística, se  
abordan en  
capítulos  
específicos,  
métodos como  
aglomeración  
(clustering),*

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*regresión, biplots,*

*escalado*

*multidimensional,*

*análisis de*

*correspondencias*

*(simple y canónico)*

*y análisis log-ratio,*

*con atención*

*también a sus*

*problemas de*

*modelado y*

*aspectos*

*inferenciales. El*

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*libro plantea una serie de aplicaciones a datos reales derivados de investigaciones ecológicas, además de dos casos detallados que llevan al lector a apreciar los retos de análisis, interpretación y*

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*comunicación  
inherentes a los  
estudios a gran  
escala y los diseños  
complejos.*

*This book  
introduces the most  
commonly used  
techniques for  
dealing with  
multivariate data;  
the sort of multi-  
species multi-*

*chemical data sets that are routinely encountered in environmental investigations. It assumes prior knowledge of multivariate analyses and requires no mathematics beyond simple linear equations.*

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*The topics covered include diversity indices, multiple regression, cluster analysis, and the commoner ordination techniques (principal components analysis, detrended correspondance analysis and*

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*canonical  
correspondence  
analysis). Other  
less used  
ordinations (Bray-  
Curtis,  
Correspondence  
Analysis) are where  
this helps  
understanding of  
the most commonly  
used techniques.  
Where suitable, the*



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*author shows how  
to construct biplots  
and triplots, and*

*how to run Monte-  
Carlo testing. Each  
technique is*

*illustrated by  
worked examples*

*using simple,  
familiar data sets,  
and the key*

*features of the  
output from*

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*standard software packages is explained. Pitfalls for the unwary are highlighted wherever they occur. Appendices list and explain the acronyms that can make some published research impenetrable. The availability of each*

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*multivariate  
technique in all  
major software  
packages is listed,  
to help users  
choose the  
software suitable  
for them. The  
overall aim of the  
book is to introduce  
inexperienced  
users gently to the  
multivariate*

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Ecological Data  
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