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InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also

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*celebrates people, companies,
and projects.*

Talking Back

Commercial News USA.

*Code Flows and Shiny Apps for
Portfolio Analysis*

Statistical Computation for

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Programmers, Scientists, Quants, Excel Users, and Other Professionals Using the open source R language, you can build powerful statistical models to answer many of your most challenging questions. R has

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traditionally been difficult for non-statisticians to learn, and most R books assume far too much knowledge to be of help. R for Everyone, Second Edition, is the solution. Drawing on his unsurpassed experience

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teaching new users, professional data scientist Jared P. Lander has written the perfect tutorial for anyone new to statistical programming and modeling. Organized to make learning easy and intuitive, this guide focuses

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on the 20 percent of R functionality you'll need to accomplish 80 percent of modern data tasks. Lander's self-contained chapters start with the absolute basics, offering extensive hands-on practice and

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sample code. You'll download and install R; navigate and use the R environment; master basic program control, data import, manipulation, and visualization; and walk through several essential tests. Then, building on

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this foundation, you'll construct several complete models, both linear and nonlinear, and use some data mining techniques. After all this you'll make your code reproducible with LaTeX, RMarkdown, and Shiny. By the

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time you're done, you won't just know how to write R programs, you'll be ready to tackle the statistical problems you care about most. Coverage includes Explore R, RStudio, and R packages Use R for math:

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variable types, vectors, calling functions, and more Exploit data structures, including data.frames, matrices, and lists Read many different types of data Create attractive, intuitive statistical graphics Write user-defined

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functions Control program flow
with if, ifelse, and complex
checks Improve program
efficiency with group
manipulations Combine and
reshape multiple datasets
Manipulate strings using R's

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facilities and regular expressions
Create normal, binomial, and
Poisson probability distributions
Build linear, generalized linear,
and nonlinear models Program
basic statistics: mean, standard
deviation, and t-tests Train

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machine learning models Assess
the quality of models and
variable selection Prevent
overfitting and perform variable
selection, using the Elastic Net
and Bayesian methods Analyze
univariate and multivariate time

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series data Group data via K-means and hierarchical clustering Prepare reports, slideshows, and web pages with knitr Display interactive data with RMarkdown and htmlwidgets Implement dashboards with

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Shiny Build reusable R packages with devtools and Rcpp Register your product at informit.com/register for convenient access to downloads, updates, and corrections as they become available.

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Educational Technology

PC Magazine

PC Mag

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expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

Testing's Impact on Design &
Technology
Computerworld

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The Independent Guide to IBM- standard Personal Computing

This book reports on the latest advances from both industry and academia on ubiquitous intelligence and how it is enabled by 5G/6G communication technologies. The authors cover network

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protocol and architecture design, machine learning and artificial intelligence, coordinated control and digital twins technologies, and security and privacy enhancement for ubiquitous intelligence. The authors include recent studies of performance analysis and enhancement of the Internet of Things, cyber-physical

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systems, edge computing, and cyber twins, all of which provide importance guidance and theoretical tools for developing future ubiquitous intelligence. The content of the book will be of interest to students, educators, and researchers in academia, industry, and research laboratories. Provides comprehensive coverage of

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enabling communications, computing, and control technologies for ubiquitous intelligence; Presents a novel paradigm of ubiquitous intelligence powered by broadband communications, computing, and control; Includes a review of 5G/6G communication technologies, network protocol and architecture design, and

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ubiquitous computing.

Custom-made Online Computing

Embedded Systems Programming

Managing the Training Function

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Computer Decisions

Reproducible Finance with
R

*Geospatial health data are essential
to inform public health and policy.*

*These data can be used to quantify
disease burden, understand
geographic and temporal patterns,*

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identify risk factors, and measure inequalities. Geospatial Health Data: Modeling and Visualization with R-INLA and Shiny describes spatial and spatio-temporal statistical methods and visualization techniques to analyze georeferenced health data in R. The book covers the following

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topics: Manipulate and transform point, areal, and raster data, Bayesian hierarchical models for disease mapping using areal and geostatistical data, Fit and interpret spatial and spatio-temporal models with the Integrated Nested Laplace Approximations (INLA) and the

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Stochastic Partial Differential Equation (SPDE) approaches, Create interactive and static visualizations such as disease maps and time plots, Reproducible R Markdown reports, interactive dashboards, and Shiny web applications that facilitate the communication of insights to

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collaborators and policy makers. The book features fully reproducible examples of several disease and environmental applications using real-world data such as malaria in The Gambia, cancer in Scotland and USA, and air pollution in Spain. Examples in the book focus on health

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applications, but the approaches covered are also applicable to other fields that use georeferenced data including epidemiology, ecology, demography or criminology. The book provides clear descriptions of the R code for data importing, manipulation, modeling and

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visualization, as well as the interpretation of the results. This ensures contents are fully reproducible and accessible for students, researchers and practitioners.

Modeling and Visualization with R-INLA and Shiny

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U-M Computing News

Advanced Analytics and Graphics

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(Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

**Geospatial Health Data
R for Everyone**

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Byte

Reproducible Finance with R: Code Flows and Shiny Apps for Portfolio Analysis is a unique introduction to data science for investment management that explores the three major

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R/finance coding paradigms, emphasizes data visualization, and explains how to build a cohesive suite of functioning Shiny applications. The full source code, asset price data and live Shiny applications are

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available at reproduciblefinance.com. The ideal reader works in finance or wants to work in finance and has a desire to learn R code and Shiny through simple, yet practical real-world examples.

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The book begins with the first step in data science: importing and wrangling data, which in the investment context means importing asset prices, converting to returns, and constructing a portfolio. The next

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section covers risk and tackles descriptive statistics such as standard deviation, skewness, kurtosis, and their rolling histories. The third section focuses on portfolio theory, analyzing the Sharpe Ratio,

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CAPM, and Fama French models. The book concludes with applications for finding individual asset contribution to risk and for running Monte Carlo simulations. For each of these tasks, the three major coding

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paradigms are explored and the work is wrapped into interactive Shiny dashboards.

Proceedings

PC Tech Journal

International Test Conference,
1986, Proceedings, September 8,

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9, 10, 11, 1986