

Daniel Wollschläger

# Grundlagen der Datenanalyse mit R

Eine anwendungsorientierte Einführung

*4. Auflage*



Springer Spektrum

# Grundlagen Der Datenanalyse Mit R

**Uwe Ligges**

## **Grundlagen Der Datenanalyse Mit R**

*Grundlagen der Datenanalyse mit R* Daniel Wollschläger, 2015-01-12 Dieses Buch liefert eine anwendungsorientierte Einführung in die Datenauswertung mit der freien Statistikumgebung R. Es behandelt deskriptive Auswertungen ebenso umfassend wie inferenzstatistische Analysen. Neben klassischen univariaten Verfahren berücksichtigt das Buch nonparametrische Tests, Resampling Methoden und multivariate Statistik. Zudem deckt es die vielfältigen Möglichkeiten ab, Daten aufzubereiten und Diagramme zu erstellen. Die statistischen Verfahren werden anhand von Beispielen erläutert und an vielen Stellen mit Diagrammen illustriert. In die dritte Auflage sind sowohl die Neuerungen von R 3.1.1 als auch jüngere Entwicklungen bei den Zusatzpaketen eingeflossen. Gleichzeitig wurde der Text bearbeitet und in den Bereichen der logistischen Regression sowie der Kreuzvalidierung deutlich erweitert. Der Text behandelt nun auch die ordinale, multinomiale und Poisson Regression ebenso wie log-lineare Modelle und die Survival Analyse. Das Buch richtet sich an alle, die R kennenlernen und in konkreten Aufgabenstellungen einsetzen möchten, ohne bereits vorerfahrungen mit befehlsgesteuerten Programmen oder Programmiersprachen zu verfügen.

## **Sozialwissenschaftliche Datenanalyse mit R**

Katharina Manderscheid, 2017-03-26 R ist eine kostenlose, verfügbare OpenSource Programmiersprache und eine Arbeitsumgebung für statistische Datenanalyse und graphische Darstellungen, die seit mehreren Jahren Eingang in verschiedene Disziplinen findet. Die Paketstruktur erlaubt ein flexibles und unvergleichlich breites Anwendungsspektrum. R wird von einer großen NutzerInnen Community fortwährend weiterentwickelt, so dass neue Auswertungsverfahren häufig verfügbar sind. Für sozialwissenschaftliche ForscherInnen ist R interessant, da hier neben den Standardtechniken eher spezifische Verfahren mit einem höheren visuellen Anteil wie die Korrespondenzanalyse integriert sind. Aber auch für tabellarische Darstellungen von Auswertungsergebnissen, die für Forschungsberichte und Veröffentlichungen verwendet werden können, erweist sich R als flexibel und anpassungsfähig. Das Buch richtet sich explizit an SozialwissenschaftlerInnen, insbesondere SoziologInnen, Erziehungs-, Gesundheits- und PolitikwissenschaftlerInnen und deren spezifische Daten- und Analysetechniken. Dabei soll es sowohl Studierenden am Anfang ihres Studiums begleitend zu einer Statistik einführen als auch fortgeschrittenen Studierenden und Forschenden den Einstieg in das Arbeiten mit R ermöglichen. Der Aufbau des Inhalts erlaubt die Verwendung als Lehrbuch für die softwaregestützte Datenanalyse, aber auch als Nachschlagewerk für die Analysepraxis der Forschung.

*Understanding Inferential Statistics* Markus Janczyk, Roland Pfister, 2023-10-24 What actually is a p value for? And what is a significant result? This book answers such questions by providing a compact introduction to inferential statistics. Our major focus is on the logic of inferential statistics and hypothesis testing. We cover the logic behind statistical tests we then walk through the most common procedures: t test, analysis of variance with and without repeated measures, correlation, regression and discuss pitfalls of data analysis. The book thus helps developing a solid understanding of how common test procedures work and how to interpret their results correctly. Hands-on examples from everyday research including exemplary

calculations with the programs SPSS and R supplement each chapter In addition to classical methods we briefly discuss recent developments in psychological research methods This book is a translation of the original German 3rd edition of Inferenzstatistik Verstehen by Markus Janczyk and Roland Pfister It is based on an AI powered machine translation by the service DeepL com with thorough follow up editing by both authors *Statistik in Theorie und Praxis* Michael Falk,Johannes Hain,Frank Marohn,Hans Fischer,René Michel,2014-05-26 Statistik in Theorie und Praxis schl gt die Br cke statistischer Theorie und realen praktischen Anwendungen Zum einen wird Wert auf eine saubere Herleitung der g ngigen statistischen Verfahren gelegt Zum anderen beinhaltet der zweite Themenschwerpunkt reale Anwendungen der Methoden in der Praxis Dar ber hinaus werden Projekte an der Schnittstelle zwischen Schul und Hochschulunterricht vorgestellt Als Software dient das kostenlose Programm R mit der zugeh rigen grafischen Oberfl che R Commander die zahlreichen Programmbeispiele erm glichen es die vorgestellten Themen selbst nachzuvollziehen F r die Lekt re werden lediglich elementare Stochastik Kenntnisse vorausgesetzt *Grundlagen Der Datenanalyse Mit R.* ,2010 [Medizinische Statistik mit R und Excel](#) Rainer Muche,Stefanie Lanzinger,Michael Rau,2011-08-19 MS Excel ist das am h ufigsten eingesetzte Tabellenkalkulationsprogramm zur Datenverarbeitung in Tabellenform F r statistische Analysen ist Excel allerdings weniger geeignet Seit 2009 gibt es jedoch RExcel als Add In mit dem die Statistiksoftware R und deren men gesteuerte Oberfl che R Commander eingebunden werden k nnen Statistische Verfahren in R k nnen so von Excel aus aufgerufen werden Das vorliegende Buch eignet sich zum Selbststudium Nach einer Einf hrung in die Benutzung der RExcel und R Commander Oberfl chen werden in einem Beispieldatensatz Deskriptive Statistik Korrelation Regression statistische Tests berlebenszeitanalyse und Fallzahlplanung durch Screen Shots nachvollziehbar dargestellt Eine Anleitung zur kostenlosen Installation von RExcel sowie praktische Tipps zur Nutzung vervollst ndigen dieses Buch Die Nutzung von RExcel wird auf der Basis der beiden Excel Versionen 2003 und 2007 dargestellt [Mathematische Methoden in den Biowissenschaften](#) Werner Timischl,2016-03-18 Dieses Buch f hrt in grundlegende Methoden der Mathematik ein die in den Biowissenschaften angewendet werden Die Themenbereiche wurden in der dritten Auflage erheblich erweitert Sie umfassen u a Verfahren zur Auswertung von Beobachtungsdaten die f r das Fachgebiet wichtigen Funktionen die Anpassung von Funktionen an Daten Modellbildung mit Differentialgleichungen Vektoren und Matrizen sowie Sch tz und Testverfahren Die Darstellung der Inhalte baut auf der Schulmathematik auf Das Buch enth lt ein umfangreiches bungsmaterial mit dem eine Sicherheit in der Anwendung der Methoden und der numerischen Probleml sung mit R erreicht werden kann **Statistik mit R** Johannes Hain,2015 [Value Based Performance Measures](#) Nils Eikelmann,2020-08-19 Nils Eikelmann describes the framework conditions for the application of value based performance measures and critically analyses selected ones The disclosure of value based performance indicators is important in order to demonstrate the successful management of a company and to satisfy the increasing information needs of investors However companies adapt the developed theoretical concepts of value

based performance measures to their practical needs and thus investors are no longer able to compare the performance of companies In addition there is a variety of different metrics from which companies can choose The empirical study aims to reduce existing research gaps and is divided into three parts the analysis of annual reports of selected European companies the calculation of a standardised value based performance measure and a value relevance study in the form of an association study

**Programmieren mit R** Uwe Ligges,2008-08-17 R ist eine objekt orientierte und interpretierte Sprache und Programmierumgebung f r Datenanalyse und Grafik Ziel dieses Buches ist es nicht nur auf hrlich in die Grundlagen der Sprache R einzuf hren sondern auch ein Verst ndnis der Struktur der Sprache zu vermitteln Leicht k nnen so eigene Methoden umgesetzt Objektklassen definiert und ganze Pakete aus Funktionen und zugeh riger Dokumentation zusammengestellt werden Die enormen Grafikf higkeiten von R werden detailliert beschrieben Die dritte Auflage des Buches ist an die vielen Verbesserungen und Neuerungen bis R 2 7 1 angepasst worden und enth lt weitere von Lesern gew nschte Erg nzungen Das Buch richtet sich an alle die R als flexibles Werkzeug zur Datenanalyse und visualisierung einsetzen m chten Studierende die Daten f r ihre Diplomarbeit analysieren m chten Forschende die neuen Methoden ausprobieren m chten und diejenigen die in der Wirtschaft t glich Daten aufbereiten analysieren und anderen in komprimierterForm pr sentieren

**Plurilingual Education Policy in Early Childhood Education and Care** Kevin Simoes Loureiro,2024-09-12 This book explores the implementation of educational policies aimed at addressing educational inequalities and specifically focuses on Luxembourg's pioneering plurilingual education policy in non formal early childhood education and care It emphasizes the significance of developing plurilingual policies that accommodate diverse linguistic and organizational contexts ensuring more effective implementation and equitable educational opportunities for all children Through an in depth analysis this book provides insights into various aspects of policy implementation It delves into the drivers and goals of the plurilingual policy the measures taken to implement it the challenges encountered and the success factors identified at the policy level Additionally it examines the attitudes intentions and obstacles faced by those involved at the practice level Drawing on a range of theoretical frameworks and empirical studies the book presents multiple perspectives on the subject By employing a mixed methods design including policy document analysis of the plurilingual education program expert interviews with policy level stakeholders and a cross sectional survey of early childhood practitioners in the non formal education sector this work offers a multifaceted approach The book not only enhances the understanding of policy implementation processes but also sheds light on the practical implications and potential for reducing educational inequalities in multilingual educational settings The findings and discussions in this book are thus pertinent not only to Luxembourg but also offer policy and practice related implications for similar educational contexts globally

**Forestry Applications of Unmanned Aerial Vehicles (UAVs) 2019** Alessandro Matese,2020-11-23 Unmanned aerial vehicles UAVs are new platforms that have been increasingly used in the last few years for forestry applications that benefit from the added value of flexibility low cost

reliability autonomy and capability of timely provision of high resolution data The main adopted image based technologies are RGB multispectral and thermal infrared LiDAR sensors are becoming commonly used to improve the estimation of relevant plant traits In comparison with other permanent ecosystems forests are particularly affected by climatic changes due to the longevity of the trees and the primary objective is the conservation and protection of forests Nevertheless forestry and agriculture involve the cultivation of renewable raw materials with the difference that forestry is less tied to economic aspects and this is reflected by the delay in using new monitoring technologies The main forestry applications are aimed toward inventory of resources map diseases species classification fire monitoring and spatial gap estimation This Special Issue focuses on new technologies UAV and sensors and innovative data elaboration methodologies object recognition and machine vision for applications in forestry     *Qualitätsfrühwarnsysteme für die Automobilindustrie* Lothar Czaja,2009-06-15

Lothar Czaja geht der Frage nach ob sich Strukturen im automobilen Wertschöpfungsnetzwerk bereits im Vorfeld ankündigen Er befragt in einer umfangreichen empirischen Studie sowohl Automobilhersteller Automobilzulieferer als auch Logistik Dienstleister und zeigt auf der Basis der daraus gewonnenen Erkenntnisse Möglichkeiten zur Gestaltung eines Qualitätsfrühwarnsystems auf     Marketing Hartwig Steffenhagen,2008 Dieses erfolgreiche Lehrbuch wurde für die Neuauflage vollständig überarbeitet Wer es gelesen und verarbeitet hat wird mit den erworbenen Begriffen die heutige Marketingrealität in Konsumgüter Industriegüter und Dienstleistungsmärkten verstehen Konzepte der Praxis bezüglich verfolgter Marketing Ziele bzw Strategien und eingesetzter Marketing Instrumente werden nicht zuletzt aufgrund der vielen Praxisbeispiele die aus unterschiedlichen Branchen stammen leicht durchschaubar Eingeführt wird auch in ökonomische Kalküle bei Entscheidungen über unternehmerisches Marktverhalten und die dabei zu beachtenden Entwicklungen bzw Wirkungen Starker als andere Standardlehrtexte betont der Verfasser die Ökonomie der Marketing Budgetierung hierzu präsentiert er eine Fülle verbaler wie auch formaler Optimierungsaussagen und zeigt deren praktische Anwendbarkeit auf Das Buch wendet sich an alle die neu in die Marketing Materie einsteigen sei es absatz sei es beschaffungsorientiert

**Regressionsanalysen mit R** Rainer Schlittgen,2013-04-01 Das Buch vereinigt die zahlreichen Ansätze zur Erklärung einer Menge von Variablen mittels einer anderen Variablenmenge Die Ansätze werden in ihren Grundstrukturen dargestellt Die Beschreibung darauf ist notwendig gibt es doch zu jeder der vorgestellten Methoden eigene Monographien Auf diese Spezialliteratur wird für weitergehende Aspekte verwiesen Die zahlreichen Beispiele werden mit der freien statistischen Programmierumgebung R durchgerechnet dazu wird der R Code angegeben Die breitige Anzahl von Funktionen in R erlaubt es die Vielfalt der hier besprochenen Methoden mit R allein und ohne Programmierung umzusetzen So sind nicht zu komplexe Auswertungen auf der Basis dieses Textes leicht möglich     **R Alles-in-einem-Band für Dummies** Joseph Schmuller,2023-07-25 Wenn Sie R von Grund auf kennenlernen und auch die fortgeschrittenen Techniken zur Lösung gängiger Aufgaben bei der Datenanalyse mit R beherrschen möchten dann liegen Sie mit diesem Buch goldrichtig Es bietet

Ihnen nicht nur einen berblick ber die Programmierung in R und die Arbeit mit der Sprache sondern geht auch auf die Arten von Projekten und Anwendungen ein die R Entwicklerinnen und Entwickler h ufig in Angriff nehmen m ssen Statistische Analysen Datenvisualisierungen maschinelles Lernen und Datenmanagement mit R All das lernen Sie mit diesem Buch intensiv kennen

**Customer-Dominant Logic** Manfred Bruhn, Maxim Saleschus, Karsten Hadwich, 2024-11-26 This book provides a structured overview of Customer Dominant Logic and formulates fundamental principles that form the basis for a realignment of customer oriented corporate management. Customer Dominant Logic is an innovative marketing logic that consistently places the customer at the center of all business activities. This requires a fundamental shift in perspective where the integration of the provider with the customer takes precedence over the integration of the customer with the provider. Based on the principles of Customer Dominant Logic the authors present their own and new systematic management approach. They introduce Customer Dominant Management detailing all necessary phases of a management process. Customer Dominant Management aims to realize both customer and company goals through the establishment of a partnership with value creating offerings in the customer ecosystem.

Practice-Oriented Marketing Ralf T. Kreutzer, 2023-03-08 Ralf Kreutzer has once again succeeded in setting the right priorities. He makes it convincingly clear that the proven basics in marketing are also valid in the online and digital age. Predict especially worth reading. Prof Dr Dr h c Wolfgang Fritz Technical University of Braunschweig and University of Vienna. The 6th edition has been extensively revised and supplemented with important current topics of online marketing and digitalization. This further enhances the strengths of the previous editions. Prof Dr Klaus Gutknecht University of Applied Sciences Munich. The author encourages critical thinking about the content presented through the use of mnemonic boxes and food for thought. Very good. Prof Dr Sabine Haller Berlin School of Economics and Law. An indispensable orientation in the ever faster changing everyday marketing. The book provides implementation and practical know how without getting lost in details. Univ Prof Dr Michael Lingenfelder Philipps Universit Marburg. Further proof of Ralf T. Kreutzer's special expertise in marketing his great passion for conveying knowledge in the best possible way and his special ability to identify the truly relevant topics. Prof Dr Wolfgang Merkle UE University of Europe for Applied Sciences President Marketing Club Hamburg. Particularly noteworthy is the expansion of the classic marketing mix to include the fifth P for personnel. Because in the end it is still the employees who make good marketing. Prof Dr Karsten Kilian W rzburg Schweinfurt University of Applied Sciences and Markenlexikon.com. Concise language, convincing thought leadership, clear examples and goal oriented transfer questions form an almost ideal basis for opening up the world of marketing. Univ Prof Dr Klaus Peter Wiedmann Leibniz University Hanover. New from the 6th edition. Newly added are chapters on the topics of the customer journey map, special market research concepts and special forms of static price and condition design. Additional material is available via app. Download the Springer Nature Flashcards app and use exclusive content to test your knowledge.

**Grundlagen der Datenanalyse mit R (R1) und Statistik und**

**Simulation mit R (R2)** Gerrit Eichner,2012      **Community Energy in Germany** Jörg Radtke,2023-05-31 In this ground breaking book J rg Radtke offers for the first time within research a comprehensive insight into the range of organizational structures of community energy projects in Germany and their contribution to the Energiewende Based on nationwide quantitative survey data and in depth analyses of selected case studies of solar wind and geothermal projects Radtke documents the social structure and motivations of participating citizens He examines new forms of material participation community building and co determination within the mostly volunteer led community energy projects based on the civic engagement patterns of active green citizens The author identifies a new form of individualistic participation and collective modes of action in line with new types of project oriented participation between business politics and civil society within sustainability transformation processes of the early 21st century

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