

New Developments in Categorical Data Analysis for the Social and Behavioral Sciences

**Edited by L. Andries van der Ark,
Marcel A. Croon and Klaas Sijtsma**

A Psychology Press Book

New Developments In Categorical Data Analysis For The Social And Behavioral Sciences

**Jean Cardinet, Sandra
Johnson, Gianreto Pini**



New Developments In Categorical Data Analysis For The Social And Behavioral Sciences:

New Developments in Categorical Data Analysis for the Social and Behavioral Sciences L. Andries van der Ark, Marcel A. Croon, Klaas Sijtsma, 2005-01-15 Categorical data are quantified as either nominal variables distinguishing different groups for example based on socio economic status education and political persuasion or ordinal variables distinguishing levels of interest such as the preferred politician or the preferred type of punishment for committing burglary This new book is a collection of up to date studies on modern categorical data analysis methods emphasizing their application to relevant and interesting data sets This volume concentrates on latent class analysis and item response theory These methods use latent variables to explain the relationships among observed categorical variables Latent class analysis yields the classification of a group of respondents according to their pattern of scores on the categorical variables This provides insight into the mechanisms producing the data and allows the estimation of factor structures and regression models conditional on the latent class structure Item response theory leads to the identification of one or more ordinal or interval scales In psychological and educational testing these scales are used for individual measurement of abilities and personality traits The focus of this volume is applied After a method is explained the potential of the method for analyzing categorical data is illustrated by means of a real data example to show how it can be used effectively for solving a real data problem These methods are accessible to researchers not trained explicitly in applied statistics This volume appeals to researchers and advanced students in the social and behavioral sciences including social developmental organizational clinical and health psychologists sociologists educational and marketing researchers and political scientists In addition it is of interest to those who collect data on categorical variables and are faced with the problem of how to analyze such variables among themselves or in relation to metric variables

An Introduction to Latent Variable Growth Curve Modeling Terry E. Duncan, Susan C. Duncan, Lisa A. Strycker, 2013-05-13 This book provides a comprehensive introduction to latent variable growth curve modeling LGM for analyzing repeated measures It presents the statistical basis for LGM and its various methodological extensions including a number of practical examples of its use It is designed to take advantage of the reader's familiarity with analysis of variance and structural equation modeling SEM in introducing LGM techniques Sample data syntax input and output are provided for EQS Amos LISREL and Mplus on the book's CD Throughout the book the authors present a variety of LGM techniques that are useful for many different research designs and numerous figures provide helpful diagrams of the examples Updated throughout the second edition features three new chapters growth modeling with ordered categorical variables growth mixture modeling and pooled interrupted time series LGM approaches Following a new organization the book now covers the development of the LGM followed by chapters on multiple group issues analyzing growth in multiple populations accelerated designs and multi level longitudinal approaches and then special topics such as missing data models LGM power and Monte Carlo estimation and latent growth interaction models The model specifications previously included in

the appendices are now available on the CD so the reader can more easily adapt the models to their own research This practical guide is ideal for a wide range of social and behavioral researchers interested in the measurement of change over time including social developmental organizational educational consumer personality and clinical psychologists sociologists and quantitative methodologists as well as for a text on latent variable growth curve modeling or as a supplement for a course on multivariate statistics A prerequisite of graduate level statistics is recommended Multivariate Analysis for the Behavioral Sciences, Second Edition Kimmo Vehkalahti, Brian S. Everitt, 2018-12-19 Multivariate Analysis for the Behavioral Sciences Second Edition is designed to show how a variety of statistical methods can be used to analyse data collected by psychologists and other behavioral scientists Assuming some familiarity with introductory statistics the book begins by briefly describing a variety of study designs used in the behavioral sciences and the concept of models for data analysis The contentious issues of p values and confidence intervals are also discussed in the introductory chapter After describing graphical methods the book covers regression methods including simple linear regression multiple regression locally weighted regression generalized linear models logistic regression and survival analysis There are further chapters covering longitudinal data and missing values before the last seven chapters deal with multivariate analysis including principal components analysis factor analysis multidimensional scaling correspondence analysis and cluster analysis Features Presents an accessible introduction to multivariate analysis for behavioral scientists Contains a large number of real data sets including cognitive behavioral therapy crime rates and drug usage Includes nearly 100 exercises for course use or self study Supplemented by a GitHub repository with all datasets and R code for the examples and exercises Theoretical details are separated from the main body of the text Suitable for anyone working in the behavioral sciences with a basic grasp of statistics **Contrastive Register Variation** Stella Neumann, 2013-12-12 The book provides the first comparison of usage preferences across registers in the language pair English German Due to the innovative quantitative approach and broad coverage the volume is an excellent resource for scholars working in contrastive linguistics and translation studies as well as for corpus linguists *Multilevel and Longitudinal Modeling with IBM SPSS* Ronald H. Heck, Scott L. Thomas, Lynn N. Tabata, 2013-08-22 This book demonstrates how to use multilevel and longitudinal modeling techniques available in the IBM SPSS mixed effects program MIXED Annotated screen shots provide readers with a step by step understanding of each technique and navigating the program Readers learn how to set up run and interpret a variety of models Diagnostic tools data management issues and related graphics are introduced throughout Annotated syntax is also available for those who prefer this approach Extended examples illustrate the logic of model development to show readers the rationale of the research questions and the steps around which the analyses are structured The data used in the text and syntax examples are available at www.routledge.com 9780415817110 Highlights of the new edition include Updated throughout to reflect IBM SPSS Version 21 Further coverage of growth trajectories coding time related variables covariance structures individual

change and longitudinal experimental designs Ch 5 Extended discussion of other types of research designs for examining change e g regression discontinuity quasi experimental over time Ch 6 New examples specifying multiple latent constructs and parallel growth processes Ch 7 Discussion of alternatives for dealing with missing data and the use of sample weights within multilevel data structures Ch 1 The book opens with the conceptual and methodological issues associated with multilevel and longitudinal modeling followed by a discussion of SPSS data management techniques which facilitate working with multilevel longitudinal and cross classified data sets Chapters 3 and 4 introduce the basics of multilevel modeling developing a multilevel model interpreting output and trouble shooting common programming and modeling problems Models for investigating individual and organizational change are presented in chapters 5 and 6 followed by models with multivariate outcomes in chapter 7 Chapter 8 provides an illustration of multilevel models with cross classified data structures The book concludes with ways to expand on the various multilevel and longitudinal modeling techniques and issues when conducting multilevel analyses It s ideal for courses on multilevel and longitudinal modeling multivariate statistics and research design taught in education psychology business and sociology

An Introduction to Multilevel Modeling Techniques Ronald H. Heck, Scott L. Thomas, 2015-03-05 Univariate and multivariate multilevel models are used to understand how to design studies and analyze data in this comprehensive text distinguished by its variety of applications from the educational behavioral and social sciences Basic and advanced models are developed from the multilevel regression MLM and latent variable SEM traditions within one unified analytic framework for investigating hierarchical data The authors provide examples using each modeling approach and also explore situations where alternative approaches may be more appropriate given the research goals Numerous examples and exercises allow readers to test their understanding of the techniques presented Changes to the new edition include The use of Mplus 7.2 for running the analyses including the input and data files at www.routledge.com/9781848725522 Expanded discussion of MLM and SEM model building that outlines the steps taken in the process the relevant Mplus syntax and tips on how to evaluate the models Expanded pedagogical program now with chapter objectives boldfaced key terms a glossary and more tables and graphs to help students better understand key concepts and techniques Numerous varied examples developed throughout which make this book appropriate for use in education psychology business sociology and the health sciences Expanded coverage of missing data problems in MLM using ML estimation and multiple imputation to provide currently accepted solutions Ch 10 New chapter on three level univariate and multilevel multivariate MLM models provides greater options for investigating more complex theoretical relationships Ch 4 New chapter on MLM and SEM models with categorical outcomes facilitates the specification of multilevel models with observed and latent outcomes Ch 8 New chapter on multilevel and longitudinal mixture models provides readers with options for identifying emergent groups in hierarchical data Ch 9 New chapter on the utilization of sample weights power analysis and missing data provides guidance on technical issues of increasing concern for research publication Ch 10 Ideal as a text

for graduate courses on multilevel longitudinal latent variable modeling multivariate statistics or advanced quantitative techniques taught in psychology business education health and sociology this book's practical approach also appeals to researchers Recommended prerequisites are introductory univariate and multivariate statistics *Methodological Advances in Educational Effectiveness Research* Bert Creemers, Leonidas Kyriakides, Pam Sammons, 2010-04-26 Methodological Advances in Educational Effectiveness Research is an important new work by some of the leading researchers in the field of Educational Effectiveness Research EER The book provides a state of the art snapshot of the methodology of EER now and clearly demonstrates the way it is applied in both research and evaluation It shows how developments in the research methodology area such as the use of multilevel modelling approaches to analyse nested data have promoted the knowledge base of educational effectiveness But at the same time as the authors show the knowledge base of educational effectiveness and the attempt to establish theoretical models do paradoxically challenge the development of methodologically appropriate studies including ways of analysing data Guiding readers though the effective and appropriate use in educational effectiveness of Longitudinal Studies Experimental Studies Mixed Research Methods Meta analyses of effectiveness studies Using IRT to measure outcomes and factors Using Generalisability Theory to test the quality of data Multilevel modelling and Structural Equation Modelling Techniques The authors draw in the expertise of scholars from around the world to show the mathematical background of each technique the current and future applications and Specific examples of applying this orientation to help the readers design their own effectiveness studies using specific methodological tools **Applying Generalizability Theory using EduG** Jean Cardinet, Sandra Johnson, Gianreto Pini, 2011-03-04 Intended to help improve measurement and data collection methods in the behavioral social and medical sciences this book demonstrates an expanded and accessible use of Generalizability Theory G theory G theory conceptually models the way in which the reliability of measurement is ascertained Sources of score variation are identified as potential contributors to measurement error and taken into account accordingly The authors demonstrate the powerful potential of G theory by showing how to improve the quality of any kind of measurement regardless of the discipline Readers will appreciate the conversational style used to present a comprehensive review of G theory and its application using the freeware EduG To maximize understanding the authors illustrate all fundamental principles with concrete examples from different fields and contexts Annotated applications lead students through the main concepts of G theory while illustrating both the use of EduG and interpretation of its output Formulas are avoided wherever possible Exercises with data sets available on the Psychology Press website allow readers to carry out their own analyses to reinforce understanding Brief overviews of analysis of variance estimation and the statistical error model are provided for review The procedures involved in carrying out a generalizability study using EduG follow as well as guidance in the interpretation of results Real world applications of G theory to the assessment of depression managerial ability attitudes and writing and mathematical skills are then presented Next annotated exercises provide an

opportunity for readers to use EduG and interpret its results The book concludes with a review of the development of G theory and possible new directions of application Finally for those with a strong statistical background the appendixes provide the formulas used by EduG Ideal as a supplement for courses on measurement theory and or generalizability theory taught in departments of psychology education medicine and the social sciences this text will also appeal to researchers from a variety of fields interested in learning how to apply G theory to their studies

Quantitative Psychology Research

Roger E. Millsap, Daniel M. Bolt, L. Andries van der Ark, Wen-Chung Wang, 2014-11-26 The 78th Annual Meeting of the Psychometric Society IMPS builds on the Psychometric Society's mission to share quantitative methods relevant to psychology The chapters of this volume present cutting edge work in the field Topics include studies of item response theory computerized adaptive testing cognitive diagnostic modeling and psychological scaling Additional psychometric topics relate to structural equation modeling factor analysis causal modeling mediation missing data methods and longitudinal data analysis among others The papers in this volume will be especially useful for researchers in the social sciences who use quantitative methods Prior knowledge of statistical methods is recommended The 78th annual meeting took place in Arnhem The Netherlands between July 22nd and 26th 2013 The previous volume to showcase work from the Psychometric Society's Meeting is *New Developments in Quantitative Psychology Presentations from the 77th Annual Psychometric Society Meeting* Springer 2014

Advances in Latent Class Analysis Gregory R. Hancock, Jeffrey R. Harring, George B. Macready, 2019-05-01 What is latent class analysis If you asked that question thirty or forty years ago you would have gotten a different answer than you would today Closer to its time of inception latent class analysis was viewed primarily as a categorical data analysis technique often framed as a factor analysis model where both the measured variable indicators and underlying latent variables are categorical Today however it rests within much broader mixture and diagnostic modeling framework integrating measured and latent variables that may be categorical and or continuous and where latent classes serve to define the subpopulations for whom many aspects of the focal measured and latent variable model may differ For latent class analysis to take these developmental leaps required contributions that were methodological certainly as well as didactic Among the leaders on both fronts was C Mitchell Chan Dayton at the University of Maryland whose work in latent class analysis spanning several decades helped the method to expand and reach its current potential The current volume in the Center for Integrated Latent Variable Research CILVR series reflects the diversity that is latent class analysis today celebrating work related to made possible by and inspired by Chan's noted contributions and signaling the even more exciting future yet to come

Unveiling the Magic of Words: A Overview of "**New Developments In Categorical Data Analysis For The Social And Behavioral Sciences**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**New Developments In Categorical Data Analysis For The Social And Behavioral Sciences**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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