

# **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

*New Developments in Categorical Data Analysis for the Social and Behavioral Sciences*, 2005

**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

*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

**Cross-Cultural Analysis** Eldad Davidov, Peter Schmidt, Jaak Billiet, Bart Meuleman, 2018-01-31 Intended to bridge the gap between the latest methodological developments and cross cultural research this interdisciplinary resource presents the latest strategies for analyzing cross cultural data Techniques are demonstrated through the use of applications that employ cross national data sets such as the latest European Social Survey With an emphasis on the generalized latent variable approach internationally prominent researchers from a variety of fields explain how the methods work how to apply them and how they relate to other methods presented in the book Syntax and graphical and verbal explanations of the techniques are included Online resources available at [www.routledge.com](http://www.routledge.com) 9781138690271 include some of the data sets and syntax commands used in the book Applications from the behavioral and social sciences that use real data sets demonstrate The use of samples from 17 countries to validate the resistance to change scale across these nations How to test the cross national invariance properties of social trust The interplay between social structure religiosity values and social attitudes A comparison of anti immigrant attitudes and patterns of religious orientations across European countries The second edition includes six new chapters and two revised ones presenting

exciting developments in the literature of cross cultural analysis including topics such as approximate measurement invariance alignment optimization sensitivity analyses a mixed methods approach to test for measurement invariance and a multilevel structural equation modeling approach to explain noninvariance This book is intended for researchers practitioners and advanced students interested in cross cultural research Because the applications span a variety of disciplines the book will appeal to researchers and students in psychology political science sociology education marketing and economics geography criminology psychometrics epidemiology and public health as well as those interested in methodology It is also appropriate for an advanced methods course in cross cultural analysis

**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

*The Development and Structure of Conscience* Willem Koops, Daniel Brugman, Tamara J. Ferguson, Andries F. Sanders, 2009-10-16 International experts in the field contribute to this broad overview of the relevant research on the development of moral emotions and on the Kohlberian originated cognitive aspects of moral development

**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

**Multilevel and Longitudinal Modeling with IBM SPSS** Ronald H. Heck, Scott L. Thomas, Lynn N. Tabata, 2022-04-11 Multilevel and Longitudinal Modeling with IBM SPSS Third Edition demonstrates how to use the multilevel and longitudinal modeling techniques available in IBM SPSS Versions 25 27 Annotated screenshots with all relevant output provide readers with a step by step understanding of each technique as they are shown how to navigate the program Throughout diagnostic tools data management issues and related graphics are introduced SPSS commands show the flow of the menu structure and how to facilitate model building while annotated syntax is also available for those who prefer this approach Extended examples illustrating the logic of model development and evaluation are included throughout the book demonstrating the context and rationale of the research questions and the steps around which the analyses are structured The book opens with the conceptual and methodological issues associated with multilevel and longitudinal modeling followed by a discussion of SPSS data management techniques that facilitate working with multilevel longitudinal or cross classified data sets The next few chapters introduce the basics of multilevel modeling developing a multilevel model extensions of the basic two level model e g three level models models for binary and ordinal outcomes and troubleshooting techniques for everyday use programming and modeling problems along with potential solutions Models for investigating individual and organizational change are next developed followed by models with multivariate outcomes and finally models with cross classified and multiple membership data structures The book concludes with thoughts about ways to expand on the various multilevel and longitudinal modeling

techniques introduced and issues e.g. missing data, sample weights to keep in mind in conducting multilevel analyses. Key features of the third edition: Thoroughly updated throughout to reflect IBM SPSS Versions 26-27; Introduction to fixed effects regression for examining change over time where random effects modeling may not be an optimal choice; Additional treatment of key topics specifically aligned with multilevel modeling e.g. models with binary and ordinal outcomes; Expanded coverage of models with cross-classified and multiple membership data structures; Added discussion on model checking for improvement e.g. examining residuals, locating outliers; Further discussion of alternatives for dealing with missing data and the use of sample weights within multilevel data structures. Supported by online data sets, the book's practical approach makes it an essential text for graduate level courses on multilevel longitudinal latent variable modeling, multivariate statistics or advanced quantitative techniques taught in departments of business education, health psychology and sociology. The book will also prove appealing to researchers in these fields. The book is designed to provide an excellent supplement to Heck and Thomas's *An Introduction to Multilevel Modeling Techniques* Fourth Edition, however it can also be used with any multilevel or longitudinal modeling book or as a stand-alone text.

**The SAGE Encyclopedia of Educational Research, Measurement, and Evaluation** Bruce B. Frey, 2018-01-29 This encyclopedia is the first major reference guide for students new to the field, covering traditional areas while pointing the way to future developments. Multilevel Analysis Joop Hox, Mirjam Moerbeek, Rens van de Schoot, 2017-09-14 Applauded for its clarity, this accessible introduction helps readers apply multilevel techniques to their research. The book also includes advanced extensions, making it useful as both an introduction for students and as a reference for researchers. Basic models and examples are discussed in nontechnical terms with an emphasis on understanding the methodological and statistical issues involved in using these models. The estimation and interpretation of multilevel models is demonstrated using realistic examples from various disciplines including psychology, education, public health and sociology. Readers are introduced to a general framework on multilevel modeling which covers both observed and latent variables in the same model, while most other books focus on observed variables. In addition, Bayesian estimation is introduced and applied using accessible software. Handbook of Item Response Theory Wim J. van der Linden, 2018-02-19 Drawing on the work of 75 internationally acclaimed experts in the field, *Handbook of Item Response Theory* Three Volume Set presents all major item response models, classical and modern statistical tools used in item response theory, IRT, and major areas of applications of IRT in educational and psychological testing, medical diagnosis of patient reported outcomes and marketing research. It also covers CRAN packages WinBUGS, Bilog, MG, Multilog, Parscale, IRTPRO, Mplus, GLLAMM, Latent Gold and numerous other software tools. A full update of editor Wim J. van der Linden and Ronald K. Hambleton's classic *Handbook of Modern Item Response Theory*, this handbook has been expanded from 28 chapters to 85 chapters in three volumes. The three volumes are thoroughly edited and cross-referenced with uniform notation, format and pedagogical principles across all chapters. Each chapter is self-contained and deals with the latest

developments in IRT

**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](http://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

**OECD Development**

**Policy Tools Social Protection System Review A Toolkit** OECD, 2018-12-17 The positive impacts of social protection on reducing poverty and inequality and contributing to development are well evidenced Establishing an integrated system facilitates the provision of a social protection floor whereby individuals are appropriately protected throughout the life cycle

**Longitudinal Research with Latent Variables** Kees van Montfort, Johan H.L. Oud, Albert Satorra, 2010-05-17 Since Charles Spearman published his seminal paper on factor analysis in 1904 and Karl Joreskog replaced the observed variables in an econometric structural equation model by latent factors in 1970 causal modelling by means of latent variables has become the standard in the social and behavioural sciences Indeed the central variables that social and behavioural theories deal with can hardly ever be identified as observed variables Statistical modelling has to take account of measurement errors



and invalidities in the observed variables and so address the underlying latent variables Moreover during the past decades it has been widely agreed on that serious causal modelling should be based on longitudinal data It is especially in the eld of longitudinal research and analysis including panel research that progress has been made in recent years Many comprehensive panel data sets as for example on human development and voting behaviour have become available for analysis The number of publications based on longitudinal data has increased immensely Papers with causal claims based on cross sectional data only experience rejection just for that reason

*Analysis of Integrated Data* Li-Chun Zhang,Raymond L. Chambers,2019-04-18 The advent of Big Data has brought with it a rapid diversification of data sources requiring analysis that accounts for the fact that these data have often been generated and recorded for different reasons Data integration involves combining data residing in different sources to enable statistical inference or to generate new statistical data for purposes that cannot be served by each source on its own This can yield significant gains for scientific as well as commercial investigations However valid analysis of such data should allow for the additional uncertainty due to entity ambiguity whenever it is not possible to state with certainty that the integrated source is the target population of interest Analysis of Integrated Data aims to provide a solid theoretical basis for this statistical analysis in three generic settings of entity ambiguity statistical analysis of linked datasets that may contain linkage errors datasets created by a data fusion process where joint statistical information is simulated using the information in marginal data from non overlapping sources and estimation of target population size when target units are either partially or erroneously covered in each source Covers a range of topics under an overarching perspective of data integration Focuses on statistical uncertainty and inference issues arising from entity ambiguity Features state of the art methods for analysis of integrated data Identifies the important themes that will define future research and teaching in the statistical analysis of integrated data Analysis of Integrated Data is aimed primarily at researchers and methodologists interested in statistical methods for data from multiple sources with a focus on data analysts in the social sciences and in the public and private sectors

*Advances in Social Network Analysis* Stanley Wasserman,Joseph Galaskiewicz,1994-07-27 Social network analysis a method for analyzing relationships between social entities has expanded over the last decade as new research has been done in this area How can these new developments be applied effectively in the behavioral and social sciences disciplines In *Advances in Social Network Analysis* a team of leading methodologists in network analysis addresses this issue They explore such topics as ways to specify the network contents to be studied how to select the method for representing network structures how social network analysis has been used to study interorganizational relations via the resource dependence model how to use a contact matrix for studying the spread of disease in epidemiology and how cohesion and structural equivalence network theories relate to studying social influence It also offers statistical models for social support networks *Advances in Social Network Analysis* is useful for researchers involved in general research methods and qualitative methods and who are interested in psychology

and sociology

**Individual Development and Social Change** John R. Nesselroade, Alexander Von Eye, 2013-09-24

Individual Development and Social Change Explanatory Analysis represents a convergence of three lines of emphasis now visible in developmental research and theory building The three are 1 the life course as a focus for the study of development and social change and their interrelationships 2 the life span orientation to the study of individual development with its acknowledgment of the salience of contextual features for understanding development and 3 the growth of methodological innovations that provide more appropriate and powerful ways of exploiting data gathered to describe and explain developmental change processes The book opens with a study on how major cultural change originates and unfolds over time This is followed by separate chapters on the use of sequential designs for explanatory analyses evolutionary aspects of social and individual development the concepts of the theory of causal and weak causal regressive dependence and the concepts of age period and cohort from the perspective of developmental psychology Subsequent chapters examine development and aging as lifelong processes of historical populations the methodological integration of natural and cultural science perspectives in developmental psychology and application of the multifaceted methodology to the mutuality of constraint between sociocultural group and individual dynamics

**Handbook of Statistical Modeling for the Social and**

**Behavioral Sciences** G. Arminger, Clifford C. Clogg, M.E. Sobel, 1995 Contributors thoroughly survey the most important statistical models used in empirical research in the social and behavioral sciences Following a common format each chapter introduces a model illustrates the types of problems and data for which the model is best used provides numerous examples that draw upon familiar models or procedures and includes material on software that can be used to estimate the models studied This handbook will aid researchers methodologists graduate students and statisticians to understand and resolve common modeling problems

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