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Editors

Longitudinal Research with Latent Variables

 Springer

Longitudinal Research With Latent Variables Juyuanore

Alexander von Eye



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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 field 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.

Advances in Longitudinal Methods in the Social and Behavioral Sciences Gregory R. Hancock, Jeffrey R. Harring, 2012-11-01 The importance that practitioners are placing on longitudinal designs and analyses signals a critical shift toward methods that enable a better understanding of developmental processes thought to underlie many human attributes and behaviors. A simple scan of one's own applied literature reveals evidence of this trend through the increasing number of articles adopting longitudinal methods as their primary analytic tools. *Advances in Longitudinal Methods in the Social and Behavioral Sciences* is a resource intended for advanced graduate students, faculty and applied researchers interested in longitudinal data analysis especially in the social and behavioral sciences. The chapters are written by established methodological researchers from diverse research domains such as psychology, biostatistics, educational statistics, psychometrics and family sciences. Each chapter exposes the reader to some of the latest methodological developments and perspectives in the analysis of longitudinal data and is written in a didactic tone that makes the content accessible to the broader research community. This volume will be particularly appealing to researchers in domains including but not limited to human development, clinical psychology, educational psychology, school psychology, special education, epidemiology, family science, kinesiology, communication disorders and education policy and administration. The book will also be attractive to members of several professional organizations such as the American Educational Research Association (AERA), the American Psychological Association (APA), the American Psychological Society (APS), the Society for Research on Adolescence (SRA), the Society of Research in Child Development (SRCD), Society for Research in Adult Development (SRAD), British Psychological Society (BPS), Canadian Psychological Association (CPA) and other related organizations.

Problems and Methods in Longitudinal Research David Magnusson, 1994-03-24 An analysis of data treatment methodology for longitudinal research studies

Longitudinal Data Analysis Jason

Newsom, Richard N. Jones, Scott M. Hofer, 2013-06-19 This book provides accessible treatment to state of the art approaches to analyzing longitudinal studies Comprehensive coverage of the most popular analysis tools allows readers to pick and choose the techniques that best fit their research The analyses are illustrated with examples from major longitudinal data sets including practical information about their content and design Illustrations from popular software packages offer tips on how to interpret the results Each chapter features suggested readings for additional study and a list of articles that further illustrate how to implement the analysis and report the results Syntax examples for several software packages for each of the chapter examples are provided at www.psypress.com/longitudinal-data-analysis Although many of the examples address health or social science questions related to aging readers from other disciplines will find the analyses relevant to their work In addition to demonstrating statistical analysis of longitudinal data the book shows how to interpret and analyze the results within the context of the research design The methods covered in this book are applicable to a range of applied problems including short to long term longitudinal studies using a range of sample sizes The book provides non technical practical introductions to the concepts and issues relevant to longitudinal analysis Topics include use of publicly available data sets weighting and adjusting for complex sampling designs with longitudinal studies missing data and attrition measurement issues related to longitudinal research the use of ANOVA and regression for average change over time mediation analysis growth curve models basic and advanced structural equation models and survival analysis An ideal supplement for graduate level courses on data analysis and or longitudinal modeling taught in psychology gerontology public health human development family studies medicine sociology social work and other behavioral social and health sciences this multidisciplinary book will also appeal to researchers in these fields

Statistical Methods in Longitudinal Research

Alexander von Eye, 1990-11-16 These edited volumes present new statistical methods in a way that bridges the gap between theoretical and applied statistics The volumes cover general problems and issues and more specific topics concerning the structuring of change the analysis of time series and the analysis of categorical longitudinal data The book targets students of development and change in a variety of fields psychology sociology anthropology education medicine psychiatry economics behavioural sciences developmental psychology ecology plant physiology and biometry with basic training in statistics and computing

Longitudinal Data Analysis Professor Catrien C J H C J H Bijleveld, Leo J. Th. van der Kamp, Professor Leo J Th Van Der Kamp, Ab Mooijaart, Dr Willem A Van Der Van Der Kloot, Dr Rien Van Der Leeden, Eeke Van Der Burg, 1998-10-26 By looking at the processes of change over time by carrying out longitudinal studies researchers answer questions about learning development educational growth social change and medical outcomes However longitudinal research has many faces This book examines all the main approaches as well as newer developments such as structural equation modelling multilevel modelling and optimal scaling to enable the reader to gain a thorough understanding of the approach and make appropriate decisions about which technique can be applied to the research problem Conceptual explanations are used to

keep technical terms to a minimum examples are provided for each approach issues of design measurement and significance are considered and a standard notation is used throughout

Modeling Longitudinal and Multilevel Data Todd D. Little, Kai U. Schnabel, Jürgen Baumert, 2000 Experts on handling longitudinal multiple group data contribute various practical analytic approaches including SEM LTA GLM and multi level techniques Includes helpful tips applications and examples Grad students researchers in social behavior

Longitudinal Multivariate Psychology Emilio Ferrer, Steven M. Boker, Kevin J. Grimm, 2018-10-09 This volume presents a collection of chapters focused on the study of multivariate change As people develop and change multivariate measurement of that change and analysis of those measures can illuminate the regularities in the trajectories of individual development as well as time dependent changes in population averages As longitudinal data have recently become much more prevalent in psychology and the social sciences models of change have become increasingly important This collection focuses on methodological statistical and modeling aspects of multivariate change and applications of longitudinal models to the study of psychological processes The volume is divided into three major sections Extension of latent change models Measurement and testing issues in longitudinal modeling and Novel applications of multivariate longitudinal methodology It is intended for advanced students and researchers interested in learning about state of the art techniques for longitudinal data analysis as well as understanding the history and development of such techniques

Statistical Methods in Longitudinal Research Alexander von Eye, 2014-06-28 These edited volumes present new statistical methods in a way that bridges the gap between theoretical and applied statistics The volumes cover general problems and issues and more specific topics concerning the structuring of change the analysis of time series and the analysis of categorical longitudinal data The book targets students of development and change in a variety of fields psychology sociology anthropology education medicine psychiatry economics behavioural sciences developmental psychology ecology plant physiology and biometry with basic training in statistics and computing

Handbook of Longitudinal Research Scott Menard, 2007-10-11 Longitudinal research is a broad field in which substantial advances have been made over the past decade Unlike many of the existing books that only address the analysis of information The Handbook of Longitudinal Research covers design and measurement as well as the data analysis Designed for use by a wide ranging audience this Handbook not only includes perspective on the methodological and data analysis problems in longitudinal research but it also includes contributors data sets that enable readers who lack sophisticated statistics skills to move from theories about longitudinal data into practice As the comprehensive reference this Handbook has no direct competition as most books in this subject area are more narrowly specialized and are pitched at a high mathematical level Contributors and subject areas are interdisciplinary to reach the broadest possible audience i e psychology epidemiology and economics research fields Summary material will be included for less sophisticated readers Extensive coverage is provided of traditional advanced topics

Longitudinal Models in the Behavioral and Related Sciences Kees van Montfort, Johan Oud, Albert

Satorra,2017-09-29 This volume reviews longitudinal models and analysis procedures for use in the behavioral and social sciences Written by distinguished experts in the field the book presents the most current approaches and theories and the technical problems that may be encountered along the way Readers will find new ideas about the use of longitudinal analysis in solving problems that arise due to the specific nature of the research design and the data available Longitudinal Models in the Behavioral and Related Sciences opens with the latest theoretical developments In particular the book addresses situations that arise due to the categorical nature of the data issues related to state space modeling and potential problems that may arise from network analysis and or growth curve data The focus of part two is on the application of longitudinal modeling in a variety of disciplines The book features applications such as heterogeneity on the patterns of a firm s profit on house prices and on delinquent behavior non linearity in growth in assessing cognitive aging measurement error issues in longitudinal research and distance association for the analysis of change Part two clearly demonstrates the caution that should be taken when applying longitudinal modeling as well as in the interpretation of the results This new volume is ideal for advanced students and researchers in psychology sociology education economics management medicine and neuroscience Measurement Error in Longitudinal Data Alexandru Cernat,Joseph W. Sakshaug,2021 Measurement Error in Longitudinal Data tackles the important issue of how to understand and estimate change in the context of imperfect data

Longitudinal Data Analysis Garrett Fitzmaurice,Marie Davidian,Geert Verbeke,Geert Molenberghs,2008-08-11 Although many books currently available describe statistical models and methods for analyzing longitudinal data they do not highlight connections between various research threads in the statistical literature Responding to this void Longitudinal Data Analysis provides a clear comprehensive and unified overview of state of the art theory *Data Quality in Longitudinal Research* David Magnusson,Lars R. Bergman,1990 This overview of the central issues of data quality in longitudinal research focuses on data relevant for studying individual development The topics covered include reliability validity sampling aggregation and the correspondence between theory and method More specific practical issues in longitudinal research such as the drop out problem and issues of confidentiality are also addressed The volume is the result of an interdisciplinary endeavor by leading European scientists to discuss appropriate ways of handling various types of longitudinal data including psychiatric data alcohol data and criminal data *Modeling Contextual Effects in Longitudinal Studies* Todd D. Little,James A. Bovaird,Noel A. Card,2007-03-21 Modeling the impact and influence of contextual factors on human development is something that many talk about but few actually do The goal of this book is to provide researchers with an accessible guide to understanding the many different ways that contextual factors can be including in longitudinal studies of human development Annotated Bibliographies for Longitudinal Research Methodologies Network on Methodological Issues in Longitudinal and Cohort Research,1986 *Categorical Longitudinal Data* Jacques A. Hagenaars,1990-05 With the increasingly extensive use of social survey data it has become necessary to focus on the analysis of categorical data The log

linear model occupies a central position because of its effectiveness in dealing with substantive problems involving categorical data

Categorical Longitudinal Data *Longitudinal Research* F. Schulsinger, Sarnoff A. Mednick, J. Knop, 2012-12-06 This volume is the product of a course on longitudinal prospective research arranged by the three editors in Arhus Denmark in 1978 The course was supported by the Nordisk Kulturfond for young researchers from the Nordic countries who had planned or had simply involved themselves in longitudinal prospective research projects of various kinds The twenty six participants represented a wide range of professions statisticians psychologists psychiatrists nutritionists and public health researchers The teachers came from many countries and represented many disciplines The course was very successful especially from the point of view of the quality and investment of the teachers We felt also that the course met a strong need in this relatively new field of research Therefore we asked the teachers to prepare written versions of their lectures so that they could have wider dissemination they agreed to do so The present book is composed of these contributions The first chapter after outlining some of the problems with traditional strategies in mental health research goes on to suggest some of the possible preventive applications of longitudinal research methods Included in Parts II and III are papers on design problems and on the tools of long term research such as genetics and classification biological measurements epidemiological guidelines statistical models disease registers and developmental psychology

Applied Computational Statistics in Longitudinal Research Michael J. Rovine, Alexander von Eye, 1991 A book designed to assist the user to actually run and interpret the results of many innovative analytic strategies such as those discussed in Statistical methods in Longitudinal Research The book helps the user to quickly and easily apply the material to the computer

Latent Variable Modeling of Longitudinal and Multilevel Data Bengt Muthen, 1996

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