

Springer Series in Statistics

Brajendra C. Sutradhar

Longitudinal Categorical Data Analysis



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Longitudinal Categorical Data Analysis Springer Series In Statistics

Geert Molenberghs, Michael Kenward



Longitudinal Categorical Data Analysis Springer Series In Statistics:

Longitudinal Categorical Data Analysis Brajendra C. Sutradhar, 2014-10-30 This is the first book in longitudinal categorical data analysis with parametric correlation models developed based on dynamic relationships among repeated categorical responses This book is a natural generalization of the longitudinal binary data analysis to the multinomial data setup with more than two categories Thus unlike the existing books on cross sectional categorical data analysis using log linear models this book uses multinomial probability models both in cross sectional and longitudinal setups A theoretical foundation is provided for the analysis of univariate multinomial responses by developing models systematically for the cases with no covariates as well as categorical covariates both in cross sectional and longitudinal setups In the longitudinal setup both stationary and non stationary covariates are considered These models have also been extended to the bivariate multinomial setup along with suitable covariates For the inferences the book uses the generalized quasi likelihood as well as the exact likelihood approaches The book is technically rigorous and it also presents illustrations of the statistical analysis of various real life data involving univariate multinomial responses both in cross sectional and longitudinal setups This book is written mainly for the graduate students and researchers in statistics and social sciences among other applied statistics research areas However the rest of the book specifically the chapters from 1 to 3 may also be used for a senior undergraduate course in statistics

Applied Bayesian Modelling Peter Congdon, 2014-05-23 This book provides an accessible approach to Bayesian computing and data analysis with an emphasis on the interpretation of real data sets Following in the tradition of the successful first edition this book aims to make a wide range of statistical modeling applications accessible using tested code that can be readily adapted to the reader's own applications The second edition has been thoroughly reworked and updated to take account of advances in the field A new set of worked examples is included The novel aspect of the first edition was the coverage of statistical modeling using WinBUGS and OPENBUGS This feature continues in the new edition along with examples using R to broaden appeal and for completeness of coverage

Biometrics - Volume I Susan R. Wilson, Conrad Burden, 2009-02-18 Biometrics is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Biometry is a broad discipline covering all applications of statistics and mathematics to biology The Theme Biometrics is divided into areas of expertise essential for a proper application of statistical and mathematical methods to contemporary biological problems These volumes cover four main topics Data Collection and Analysis Statistical Methodology Computation Biostatistical Methods and Research Design and Selected Topics These volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Advances in Time Series Methods and Applications Wai Keung Li, David A. Stanford, Hao Yu, 2016-12-02 This volume reviews and summarizes some of A I McLeod's significant contributions to time

series analysis It also contains original contributions to the field and to related areas by participants of the festschrift held in June 2014 and friends of Dr McLeod Covering a diverse range of state of the art topics this volume well balances applied and theoretical research across fourteen contributions by experts in the field It will be of interest to researchers and practitioners in time series econometricians and graduate students in time series or econometrics as well as environmental statisticians data scientists statisticians interested in graphical models and researchers in quantitative risk management **Applied Categorical and Count Data Analysis** Wan Tang,Hua He,Xin M. Tu,2012-06-04 Developed from the authors graduate level biostatistics course Applied Categorical and Count Data Analysis explains how to perform the statistical analysis of discrete data including categorical and count outcomes The authors describe the basic ideas underlying each concept model and approach to give readers a good grasp of the fundamentals of the methodology without using rigorous mathematical arguments The text covers classic concepts and popular topics such as contingency tables logistic models and Poisson regression models along with modern areas that include models for zero modified count outcomes parametric and semiparametric longitudinal data analysis reliability analysis and methods for dealing with missing values R SAS SPSS and Stata programming codes are provided for all the examples enabling readers to immediately experiment with the data in the examples and even adapt or extend the codes to fit data from their own studies Designed for a one semester course for graduate and senior undergraduate students in biostatistics this self contained text is also suitable as a self learning guide for biomedical and psychosocial researchers It will help readers analyze data with discrete variables in a wide range of biomedical and psychosocial research fields Bayesian Models for Categorical Data Peter Congdon,2005-12-13 The use of Bayesian methods for the analysis of data has grown substantially in areas as diverse as applied statistics psychology economics and medical science Bayesian Methods for Categorical Data sets out to demystify modern Bayesian methods making them accessible to students and researchers alike Emphasizing the use of statistical computing and applied data analysis this book provides a comprehensive introduction to Bayesian methods of categorical outcomes Reviews recent Bayesian methodology for categorical outcomes binary count and multinomial data Considers missing data models techniques and non standard models ZIP and negative binomial Evaluates time series and spatio temporal models for discrete data Features discussion of univariate and multivariate techniques Provides a set of downloadable worked examples with documented WinBUGS code available from an ftp site The author s previous 2 bestselling titles provided a comprehensive introduction to the theory and application of Bayesian models Bayesian Models for Categorical Data continues to build upon this foundation by developing their application to categorical or discrete data one of the most common types of data available The author s clear and logical approach makes the book accessible to a wide range of students and practitioners including those dealing with categorical data in medicine sociology psychology and epidemiology Categorical Data Analysis for the Behavioral and Social Sciences Razia Azen,Cindy M. Walker,2021-05-26 Featuring a practical approach with numerous

examples the second edition of *Categorical Data Analysis for the Behavioral and Social Sciences* focuses on helping the reader develop a conceptual understanding of categorical methods making it a much more accessible text than others on the market The authors cover common categorical analysis methods and emphasize specific research questions that can be addressed by each analytic procedure including how to obtain results using SPSS SAS and R so that readers are able to address the research questions they wish to answer Each chapter begins with a Look Ahead section to highlight key content This is followed by an in depth focus and explanation of the relationship between the initial research question the use of software to perform the analyses and how to interpret the output substantively Included at the end of each chapter are a range of software examples and questions to test knowledge New to the second edition The addition of R syntax for all analyses and an update of SPSS and SAS syntax The addition of a new chapter on GLMMs Clarification of concepts and ideas that graduate students found confusing including revised problems at the end of the chapters Written for those without an extensive mathematical background this book is ideal for a graduate course in categorical data analysis taught in departments of psychology educational psychology human development and family studies sociology public health and business Researchers in these disciplines interested in applying these procedures will also appreciate this book s accessible approach

Statistical Methods for Dynamic Disease Screening and Spatio-Temporal Disease Surveillance Peihua Qiu, 2024-06-18 Disease screening and disease surveillance DSDS constitute two critical areas in public health each presenting distinctive challenges primarily due to their sequential decision making nature and complex data structures *Statistical Methods for Dynamic Disease Screening and Spatio Temporal Disease Surveillance* explores numerous recent analytic methodologies that enhance traditional techniques The author a prominent researcher specializing in innovative sequential decision making techniques demonstrates how these novel methods effectively address the challenges of DSDS After a concise introduction that lays the groundwork for comprehending the challenges inherent in DSDS the book delves into fundamental statistical concepts and methods relevant to DSDS This includes exploration of statistical process control SPC charts specifically crafted for sequential decision making purposes The subsequent chapters systematically outline recent advancements in dynamic screening system DySS methods fine tuned for effective disease screening Additionally the text covers both traditional and contemporary analytic methods for disease surveillance It further introduces two recently developed R packages designed for implementing DySS methods and spatio temporal disease surveillance techniques pioneered by the author s research team Features Presents Recent Analytic Methods for DSDS The book introduces analytic methods for DSDS based on SPC charts These methods effectively utilize all historical data accommodating the complex data structure inherent in sequential decision making processes Introduces Recent R Packages Two recent R packages DySS and SpTe2M are introduced The book not only presents these packages but also demonstrates key DSDS methods using them Examines Recent Research Results The text delves into the latest research findings across various domains including

dynamic disease screening nonparametric spatio temporal data modeling and monitoring and spatio temporal disease surveillance Accessible Description of Methods Major methods are described in a manner accessible to individuals without advanced knowledge in mathematics and statistics The goal is to facilitate a clear understanding of ideas and easy implementation Real Data Examples To aid comprehension the book provides several real data examples illustrating key concepts and methods Hands on Exercises Each chapter includes exercises to encourage hands on practice allowing readers to engage directly with the presented methods

Bayesian Hierarchical Models Peter D. Congdon, 2019-09-16 An intermediate level treatment of Bayesian hierarchical models and their applications this book demonstrates the advantages of a Bayesian approach to data sets involving inferences for collections of related units or variables and in methods where parameters can be treated as random collections Through illustrative data analysis and attention to statistical computing this book facilitates practical implementation of Bayesian hierarchical methods The new edition is a revision of the book *Applied Bayesian Hierarchical Methods* It maintains a focus on applied modelling and data analysis but now using entirely R based Bayesian computing options It has been updated with a new chapter on regression for causal effects and one on computing options and strategies This latter chapter is particularly important due to recent advances in Bayesian computing and estimation including the development of rjags and rstan It also features updates throughout with new examples The examples exploit and illustrate the broader advantages of the R computing environment while allowing readers to explore alternative likelihood assumptions regression structures and assumptions on prior densities Features Provides a comprehensive and accessible overview of applied Bayesian hierarchical modelling Includes many real data examples to illustrate different modelling topics R code based on rjags jagsUI R2OpenBUGS and rstan is integrated into the book emphasizing implementation Software options and coding principles are introduced in new chapter on computing Programs and data sets available on the book's website

The SAGE Handbook of Quantitative Methods in Psychology Roger E Millsap, Alberto Maydeu-Olivares, 2009-07-23 I often wonder to myself whether the field needs another book handbook or encyclopedia on this topic In this case I think that the answer is truly yes The handbook is well focused on important issues in the field and the chapters are written by recognized authorities in their fields The book should appeal to anyone who wants an understanding of important topics that frequently go uncovered in graduate education in psychology David C Howell Professor Emeritus University of Vermont Quantitative psychology is arguably one of the oldest disciplines within the field of psychology and nearly all psychologists are exposed to quantitative psychology in some form While textbooks in statistics research methods and psychological measurement exist none offer a unified treatment of quantitative psychology The SAGE Handbook of Quantitative Methods in Psychology does just that Each chapter covers a methodological topic with equal attention paid to established theory and the challenges facing methodologists as they address new research questions using that particular methodology The reader will come away from each chapter with a greater understanding of the methodology

being addressed as well as an understanding of the directions for future developments within that methodological area

Drawing on a global scholarship the Handbook is divided into seven parts Part One Design and Inference addresses issues in the inference of causal relations from experimental and non experimental research along with the design of true experiments and quasi experiments and the problem of missing data due to various influences such as attrition or non compliance Part Two Measurement Theory begins with a chapter on classical test theory followed by the common factor analysis model as a model for psychological measurement The models for continuous latent variables in item response theory are covered next followed by a chapter on discrete latent variable models as represented in latent class analysis Part Three Scaling Methods covers metric and non metric scaling methods as developed in multidimensional scaling followed by consideration of the scaling of discrete measures as found in dual scaling and correspondence analysis Models for preference data such as those found in random utility theory are covered next Part Four Data Analysis includes chapters on regression models categorical data analysis multilevel or hierarchical models resampling methods robust data analysis meta analysis Bayesian data analysis and cluster analysis Part Five Structural Equation Models addresses topics in general structural equation modeling nonlinear structural equation models mixture models and multilevel structural equation models Part Six Longitudinal Models covers the analysis of longitudinal data via mixed modeling time series analysis and event history analysis Part Seven Specialized Models covers specific topics including the analysis of neuro imaging data and functional data analysis

Missing Data in Clinical Studies Geert Molenberghs, Michael Kenward, 2007-04-04 *Missing Data in Clinical Studies* provides a comprehensive account of the problems arising when data from clinical and related studies are incomplete and presents the reader with approaches to effectively address them The text provides a critique of conventional and simple methods before moving on to discuss more advanced approaches The authors focus on practical and modeling concepts providing an extensive set of case studies to illustrate the problems described Provides a practical guide to the analysis of clinical trials and related studies with missing data Examines the problems caused by missing data enabling a complete understanding of how to overcome them Presents conventional simple methods to tackle these problems before addressing more advanced approaches including sensitivity analysis and the MAR missingness mechanism Illustrated throughout with real life case studies and worked examples from clinical trials Details the use and implementation of the necessary statistical software primarily SAS *Missing Data in Clinical Studies* has been developed through a series of courses and lectures Its practical approach will appeal to applied statisticians and biomedical researchers in particular those in the biopharmaceutical industry medical and public health organisations Graduate students of biostatistics will also find much of benefit

SAGE Quantitative Research Methods W Paul Vogt, 2011-01-01 For more than 40 years SAGE has been one of the leading international publishers of works on quantitative research methods in the social sciences This new collection provides readers with a representative sample of the best articles in quantitative methods that have appeared in SAGE journals as chosen by W Paul Vogt editor of

other successful major reference collections such as *Selecting Research Methods* 2008 and *Data Collection* 2010 The volumes and articles are organized by theme rather than by discipline Although there are some discipline specific methods most often quantitative research methods cut across disciplinary boundaries Volume One Fundamental Issues in Quantitative Research Volume Two Measurement for Causal and Statistical Inference Volume Three Alternatives to Hypothesis Testing Volume Four Complex Designs for a Complex World

The SAGE Handbook of Multilevel Modeling Marc A. Scott, Jeffrey S. Simonoff, Brian D. Marx, 2013-08-31 In this important new Handbook the editors have gathered together a range of leading contributors to introduce the theory and practice of multilevel modeling The Handbook establishes the connections in multilevel modeling bringing together leading experts from around the world to provide a roadmap for applied researchers linking theory and practice as well as a unique arsenal of state of the art tools It forges vital connections that cross traditional disciplinary divides and introduces best practice in the field Part I establishes the framework for estimation and inference including chapters dedicated to notation model selection fixed and random effects and causal inference Part II develops variations and extensions such as nonlinear semiparametric and latent class models Part III includes discussion of missing data and robust methods assessment of fit and software Part IV consists of exemplary modeling and data analyses written by methodologists working in specific disciplines Combining practical pieces with overviews of the field this Handbook is essential reading for any student or researcher looking to apply multilevel techniques in their own research

Generalized Linear Models Raymond H. Myers, Douglas C. Montgomery, G. Geoffrey Vining, Timothy J. Robinson, 2012-01-20 Praise for the First Edition The obvious enthusiasm of Myers Montgomery and Vining and their reliance on their many examples as a major focus of their pedagogy make *Generalized Linear Models* a joy to read Every statistician working in any area of applied science should buy it and experience the excitement of these new approaches to familiar activities

Technometrics Generalized Linear Models With Applications in Engineering and the Sciences Second Edition continues to provide a clear introduction to the theoretical foundations and key applications of generalized linear models GLMs Maintaining the same nontechnical approach as its predecessor this update has been thoroughly extended to include the latest developments relevant computational approaches and modern examples from the fields of engineering and physical sciences This new edition maintains its accessible approach to the topic by reviewing the various types of problems that support the use of GLMs and providing an overview of the basic related concepts such as multiple linear regression nonlinear regression least squares and the maximum likelihood estimation procedure Incorporating the latest developments new features of this Second Edition include A new chapter on random effects and designs for GLMs A thoroughly revised chapter on logistic and Poisson regression now with additional results on goodness of fit testing nominal and ordinal responses and overdispersion A new emphasis on GLM design with added sections on designs for regression models and optimal designs for nonlinear regression models Expanded discussion of weighted least squares including examples that illustrate how to

estimate the weights Illustrations of R code to perform GLM analysis The authors demonstrate the diverse applications of GLMs through numerous examples from classical applications in the fields of biology and biopharmaceuticals to more modern examples related to engineering and quality assurance The Second Edition has been designed to demonstrate the growing computational nature of GLMs as SAS Minitab JMP and R software packages are used throughout the book to demonstrate fitting and analysis of generalized linear models perform inference and conduct diagnostic checking Numerous figures and screen shots illustrating computer output are provided and a related FTP site houses supplementary material including computer commands and additional data sets Generalized Linear Models Second Edition is an excellent book for courses on regression analysis and regression modeling at the upper undergraduate and graduate level It also serves as a valuable reference for engineers scientists and statisticians who must understand and apply GLMs in their work

Encyclopedia of Quantitative Risk Analysis and Assessment, 2008-09-02 Leading the way in this field the Encyclopedia of Quantitative Risk Analysis and Assessment is the first publication to offer a modern comprehensive and in depth resource to the huge variety of disciplines involved A truly international work its coverage ranges across risk issues pertinent to life scientists engineers policy makers healthcare professionals the finance industry the military and practising statisticians Drawing on the expertise of world renowned authors and editors in this field this title provides up to date material on drug safety investment theory public policy applications transportation safety public perception of risk epidemiological risk national defence and security critical infrastructure and program management This major publication is easily accessible for all those involved in the field of risk assessment and analysis For ease of use it is available in print and online

Sampling Correlation Matrices and Analyzing Longitudinal Categorical Data Using a Multivariate Probit Model Xiao Zhang, 2004

Multilevel Analysis Tom A B Snijders, Roel J Bosker, 2011-10-30 The Second Edition of this classic text introduces the main methods techniques and issues involved in carrying out multilevel modeling and analysis Snijders and Bosker's book is an applied authoritative and accessible introduction to the topic providing readers with a clear conceptual and practical understanding of all the main issues involved in designing multilevel studies and conducting multilevel analysis This book provides step by step coverage of multilevel theories ecological fallacies the hierarchical linear model testing and model specification heteroscedasticity study designs longitudinal data multivariate multilevel models discrete dependent variables There are also new chapters on missing data multilevel modeling and survey weights Bayesian and MCMC estimation and latent class models This book has been comprehensively revised and updated since the last edition and now discusses modeling using HLM MLwiN SAS Stata including GLLAMM R SPSS Mplus WinBugs Latent Gold and SuperMix This is a must have text for any student teacher or researcher with an interest in conducting or understanding multilevel analysis Tom A B Snijders is Professor of Statistics in the Social Sciences at the University of Oxford and Professor of Statistics and Methodology at the University of Groningen Roel J Bosker is Professor of Education and Director of GION

Groningen Institute for Educational Research at the University of Groningen *The SAGE Encyclopedia of Research Design*
 Bruce B. Frey, 2022-01-27 The SAGE Encyclopedia of Research Design maps out how one makes decisions about research design interprets data and draws valid inferences undertakes research projects in an ethical manner and evaluates experimental design strategies and results From A to Z this four volume work covers the spectrum of research design strategies and topics including among other things fundamental research design principles ethics in the research process quantitative versus qualitative and mixed method designs completely randomized designs multiple comparison tests diagnosing agreement between data and models fundamental assumptions in analysis of variance factorial treatment designs complete and incomplete block designs Latin square and related designs hierarchical designs response surface designs split plot designs repeated measures designs crossover designs analysis of covariance statistical software packages and much more Research design with its statistical underpinnings can be especially daunting for students and novice researchers At its heart research design might be described simply as a formalized approach toward problem solving thinking and acquiring knowledge the success of which depends upon clearly defined objectives and appropriate choice of statistical design and analysis to meet those objectives The SAGE Encyclopedia of Research Design will assist students and researchers with their work while providing vital information on research strategies **Handbook of Missing Data Methodology** Geert Molenberghs, Garrett Fitzmaurice, Michael G. Kenward, Anastasios Tsiatis, Geert Verbeke, 2014-11-06 Missing data affect nearly every discipline by complicating the statistical analysis of collected data But since the 1990s there have been important developments in the statistical methodology for handling missing data Written by renowned statisticians in this area Handbook of Missing Data Methodology presents many methodological advances and the latest applications of missing data methods in empirical research Divided into six parts the handbook begins by establishing notation and terminology It reviews the general taxonomy of missing data mechanisms and their implications for analysis and offers a historical perspective on early methods for handling missing data The following three parts cover various inference paradigms when data are missing including likelihood and Bayesian methods semi parametric methods with particular emphasis on inverse probability weighting and multiple imputation methods The next part of the book focuses on a range of approaches that assess the sensitivity of inferences to alternative routinely non verifiable assumptions about the missing data process The final part discusses special topics such as missing data in clinical trials and sample surveys as well as approaches to model diagnostics in the missing data setting In each part an introduction provides useful background material and an overview to set the stage for subsequent chapters Covering both established and emerging methodologies for missing data this book sets the scene for future research It provides the framework for readers to delve into research and practical applications of missing data methods Handbook of International Large-Scale Assessment Leslie Rutkowski, Matthias von Davier, David Rutkowski, 2013-11-12 Winner of the 2017 AERA Division D Significant Contribution to Educational Measurement and

Research Methodology Award Technological and statistical advances along with a strong interest in gathering more information about the state of our educational systems have made it possible to assess more students in more countries more often and in more subject domains The Handbook of International Large Scale Assessment Background Technical Issues and Methods of Data Analysis brings together recognized scholars in the field of ILSA behavioral statistics and policy to develop a detailed guide that goes beyond database user manuals After highlighting the importance of ILSA data to policy and research the book reviews methodological aspects and features of the studies based on operational considerations analytics and reporting The book then describes methods of interest to advanced graduate students researchers and policy analysts who have a good grounding in quantitative methods but who are not necessarily quantitative methodologists In addition it provides a detailed exposition of the technical details behind these assessments including the test design the sampling framework and estimation methods with a focus on how these issues impact analysis choices

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Class. Date. Commas: Compound Sentences. Use commas between the main clauses in a compound sentence. Place a comma before a coordinating conjunction ... UNIT 12 PUNCTUATION END-OF-SENTENCE LESSON 73 ... COMMAS: COMPOUND SENTENCES. LESSON 76 (EXERCISE 1). PAGES: 251-265. Susan's school performed Tom Sawyer, and she played Becky Thatcher. 1. The much-admired ... Commas: Compound Sentences Flashcards Study with Quizlet and memorize flashcards containing terms like go, none, Jersey and more. Lesson 76: Commas and Compound Sentences This activity was created by a Quia Web subscriber. Learn more about Quia. Create your own activities. Answer : Commas vs. Semicolons - Compound Sentences 3. The crab grass was flourishing, but the rest of the lawn, unfortunately, was dying. 4. The hill was covered with wildflowers; it was a beautiful sight. 5. As ... Commas in Compound sentences Flashcards Study with Quizlet and memorize flashcards containing terms like coordinating conjunctions, clause, phrase and more. Struggling with commas in compound sentences ... I noticed I'm having a ton of trouble with commas in very similar types of sentences. Here are some examples:. Commas in Compound Sentences Learn more about commas in compound sentences. Our lessons offer detailed explanations along with exercises to test your knowledge. Kenmore Washing Machine Repair - iFixit Repair guides and support for Kenmore washing machines. Kenmore Washer troubleshooting, repair, and service manuals. Washer repair guides and videos - Sears Parts Direct Find free washer repair guides online at Sears PartsDirect. Get step-by-step help to diagnose your problem and fix your washer fast. Kenmore Washing Machine Troubleshooting & Repair Find the most common problems that can cause a Kenmore Washing Machine not to work - and the parts & instructions to fix them. Free repair advice! Free Online Kenmore ® Washing Machine Repair Manual Get Kenmore washer repair manuals and guides to help you diagnose and fix common issues on 500 series, 600 series, Elite Oasis and other popular models. WASHING MACHINE SERVICE MANUAL Check with the troubleshooting guide. Plan your service method by referring to ... Is the washing machine installed at an angle? Adjust the height of washing. Kenmore Service Manual | Get the Immediate PDF Download ... Kenmore Service Manual for ANY Kenmore model. We offer PDF and Booklet service and repair manuals for all brands and models. Kenmore 110 Series Washing Machine Repair - iFixit Kenmore 110 Series Washing Machine troubleshooting, repair, and service manuals ... Create a Guide. I Have This. Guides. Replacement Guides. Drive Belt. Kenmore Manuals Download kitchen, laundry, and outdoor cooking appliance manuals from Kenmore. Can't find your appliance's use and care guide? Enter your model number above ... GE 29875 User Manual - Digital Answering System Digital messaging system (2 pages). Free GE Answering Machine User Manuals GE Answering Machine 2-9991. General Electric Caller ID & Digital Messaging System Owner's Manual. Pages: 24. See Prices. GE Answering ... GE 29875 Answering Machine User Manual Phone manuals and free pdf instructions. Find the user manual you need for your phone and more at ManualsOnline. GE 29888GE1 USER MANUAL Pdf Download View and Download GE 29888GE1 user manual online. Digital Messaging System. 29888GE1 telephone pdf manual download. Also for: 29888. GE Digital Messaging System GE Digital Messaging System identified by

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