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Demography and
Forecasting**

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Statistical Demography And Forecasting

H.A. de Gans



Statistical Demography And Forecasting:

Statistical Demography and Forecasting Juha Alho, Bruce Spencer, 2006-05-27 Sustainability of pension systems intergeneration fiscal equity under population aging and accounting for health care benefits for future retirees are examples of problems that cannot be solved without understanding the nature of population forecasts and their uncertainty Similarly the accuracy of population estimates directly affects both the distributions of formula based government allocations to sub national units and the apportionment of political representation The book develops the statistical foundation for addressing such issues Areas covered include classical mathematical demography event history methods multi state methods stochastic population forecasting sampling and census coverage and decision theory The methods are illustrated with empirical applications from Europe and the U S For statisticians the book provides a unique introduction to demographic problems in a familiar language For demographers actuaries epidemiologists and professionals in related fields the book presents a unified statistical outlook on both classical methods of demography and recent developments To facilitate its classroom use exercises are included Over half of the book is readily accessible to undergraduates but more maturity may be required to benefit fully from the complete text Knowledge of differential and integral calculus matrix algebra basic probability theory and regression analysis is assumed Juha M Alho is Professor of Statistics University of Joensuu Finland and Bruce D Spencer is Professor of Statistics and Faculty Fellow at the Institute for Policy Research Northwestern University Both have contributed extensively to statistical demography and served in advisory roles and as statistical consultants in the field

Developments in Demographic Forecasting Stefano Mazzucco, Nico Keilman, 2021-09-30 This open access book presents new developments in the field of demographic forecasting covering both mortality fertility and migration For each component emerging methods to forecast them are presented Moreover instruments for forecasting evaluation are provided Bayesian models nonparametric models cohort approaches elicitation of expert opinion evaluation of probabilistic forecasts are some of the topics covered in the book In addition the book is accompanied by complementary material on the web allowing readers to practice with some of the ideas exposed in the book Readers are encouraged to use this material to apply the new methods to their own data The book is an important read for demographers applied statisticians as well as other social scientists interested or active in the field of population forecasting Professional population forecasters in statistical agencies will find useful new ideas in various chapters

Demographic Forecasting Federico Girosi, Gary King, 2018-06-05 Demographic Forecasting introduces new statistical tools that can greatly improve forecasts of population death rates Mortality forecasting is used in a wide variety of academic fields and for policymaking in global health social security and retirement planning and other areas Federico Girosi and Gary King provide an innovative framework for forecasting age sex country cause specific variables that makes it possible to incorporate more information than standard approaches These new methods more generally make it possible to include different explanatory variables in a time series regression for each cross section while

still borrowing strength from one regression to improve the estimation of all The authors show that many existing Bayesian models with explanatory variables use prior densities that incorrectly formalize prior knowledge and they show how to avoid these problems They also explain how to incorporate a great deal of demographic knowledge into models with many fewer adjustable parameters than classic Bayesian approaches and develop models with Bayesian priors in the presence of partial prior ignorance By showing how to include more information in statistical models Demographic Forecasting carries broad statistical implications for social scientists statisticians demographers public health experts policymakers and industry analysts Introduces methods to improve forecasts of mortality rates and similar variables Provides innovative tools for more effective statistical modeling Makes available free open source software and replication data Includes full color graphics a complete glossary of symbols a self contained math refresher and more

Forecasting Mortality in Developed Countries E. Tabeau, Anneke van den Berg Jeths, Christopher Heathcote, 2001-02-28 Information on future mortality trends is essential for population forecasts public health policy actuarial studies and many other purposes Realising the importance of such needs this volume contains contributions to the theory and practice of forecasting mortality in the relatively favourable circumstances in developed countries of Western Europe In this context techniques from mathematical statistics and econometrics can provide useful descriptions of past mortality The naive forecast obtained by extrapolating a fitted model may give as good a forecast as any but forecasting by extrapolation requires careful justification since it assumes the prolongation of historical conditions On the other hand whilst it is generally accepted that scientific and other advances will continue to impact on mortality perhaps dramatically so it is impossible to quantify more than the outline of future consequences with a strong degree of confidence The decision to modify an extrapolation of a model fitted to historical data or conversely choosing not to modify it in order to obtain a forecast is therefore strongly influenced by subjective and judgmental elements with the quality of the latter dependent on demographic epidemiological and indeed perhaps more general considerations The thread running through the book reflects therefore the necessity of integrating demographic epidemiological and statistical factors to obtain an improvement in the prediction of mortality

Bayesian Demographic Estimation and Forecasting John Bryant, Junni L. Zhang, 2018-06-27 Bayesian Demographic Estimation and Forecasting presents three statistical frameworks for modern demographic estimation and forecasting The frameworks draw on recent advances in statistical methodology to provide new tools for tackling challenges such as disaggregation measurement error missing data and combining multiple data sources The methods apply to single demographic series or to entire demographic systems The methods unify estimation and forecasting and yield detailed measures of uncertainty The book assumes minimal knowledge of statistics and no previous knowledge of demography The authors have developed a set of R packages implementing the methods Data and code for all applications in the book are available on www.bdefbook.com This book will be welcome for the scientific community of forecasters as it presents a new approach which has already given important

results and which in my opinion will increase its importance in the future Daniel Courgeau Institut national d tudes d mographiques *Population Forecasting 1895-1945* H.A. de Gans,2012-12-06 Authors scholars and scientists whose mother tongue is not one of the major languages of international communication are seriously disadvantaged Some individuals such as Joseph Conrad or Vladimir Nabokov have overcome that handicap brilliantly Others learn to live with it they can express themselves sufficiently lucidly in a second language to make their voice heard internationally At least when they have something original or striking to say they will be certain to reach their peers Most scientists and scholars fall into that category Others again have to wait until their work has been translated before its value is recognised This may apply even to those whose mother tongue is widely read The writings of Frenchmen Lyotard Derrida Baudrillard or Foucault on post modernism on language discourse and power for example had tremendous world wide impact only after English translations appeared on the market De Gans study of the development of population forecasting in The Netherlands is another striking illustration of the effects a language barrier may have He demonstrates convincingly that although a possibly somewhat awkward Dutchman named Wiebols was a pioneer of modern cohort component demographic forecasting he never received international recognition for this In his thesis of 1925 Wiebols employed the newest instruments of demographic analysis in improving forecasting methodology *The Demography and Epidemiology of Human Health and Aging* Jacob S. Siegel,2011-09-30 With this book Siegel an internationally known demographer and gerontologist has made a unique contribution to the fledgling fields of health demography and the demography and epidemiology of aging The book represents a felicitous union of epidemiology gerontology and demography and appears to be the first and only comprehensive text on this subject now available Drawing on a wide range of sciences in addition to demography gerontology and epidemiology including medical sociology biostatistics public policy bioethics and molecular biology the author treats theoretical and applied issues links methods and findings covers the material internationally nationally and locally and while focusing on the elderly treats the entire life course The methods materials and perspectives of demography and epidemiology are brought to bear on such topics as the prospects for future increases in human longevity the relative contribution of life style environment genetics and chance in human longevity the measurement of the share of healthy years in total life expectancy the role of population growth in the rising costs of health care and the applications of health demography in serving the health needs of local communities The separate chapters systematically develop the topics of the sources and quality of health data mortality life tables and the measurement of health status the interrelationships of health on the one hand and mortality fertility migration and age structure on the other health conditions in the less developed countries the concepts and theories of aging and projections of the aged population and local health applications public health policy and bioethical issues in health demography Given its comprehensiveness clarity interdisciplinary scope and authenticity this book appeals to a wide range of users from students and teachers of medical sociology the demography of

aging and public health studies to practitioners in these areas both as a text in health demography and the demography epidemiology of aging and as a reference work in these fields

Uncertain Demographics and Fiscal Sustainability

Juha M. Alho, Svend E. Hougaard Jensen, Jukka Lassila, 2008-03-13 There is widespread acceptance that much of the developed world faces a potential pensions and welfare crisis as a result of declining birth rates and an ageing population. However, there is considerable uncertainty about the specifics of demographic forecasting and this has significant implications for public finances. *Uncertain Demographics and Fiscal Sustainability* addresses the economic consequences of uncertainty and with particular reference to European economies explores the impact of demographic risks on public finances including pension systems, health care and old age care expenditures. Covering a spectrum of theoretical and empirical approaches, different types of computational models are used to demonstrate not only the magnitudes of the uncertainties involved but also how these can be addressed through policy initiatives. The book is divided into four parts covering demographic measurement, policy and methodological issues. Each part is followed by a discussion essay that draws out key elements and identifies common themes.

Developments in Demographic Forecasting

Stefano Mazzucco, Nico Keilman, 2020-09-28 This open access book presents new developments in the field of demographic forecasting covering both mortality, fertility and migration. For each component, emerging methods to forecast them are presented. Moreover, instruments for forecasting evaluation are provided: Bayesian models, nonparametric models, cohort approaches, elicitation of expert opinion, evaluation of probabilistic forecasts are some of the topics covered in the book. In addition, the book is accompanied by complementary material on the web allowing readers to practice with some of the ideas exposed in the book. Readers are encouraged to use this material to apply the new methods to their own data. The book is an important read for demographers, applied statisticians as well as other social scientists interested or active in the field of population forecasting. Professional population forecasters in statistical agencies will find useful new ideas in various chapters.

Statistical Journal of the United Nations Economic Commission for Europe, 2006

State and Local Population Projections

Stanley K. Smith, Jeff Tayman, David A. Swanson, 2005-12-21 The initial plans for this book sprang from a late afternoon conversation in a hotel bar. All three authors were attending the 1996 meeting of the Population Association of America in New Orleans. While nursing drinks and expounding on a variety of topics, we began talking about our current research projects. It so happened that all three of us had been entertaining the notion of writing a book on state and local population projections. Recognizing the enormity of the project for a single author, we quickly decided to collaborate. Had we not decided to work together, it is unlikely that this book ever would have been written. The last comprehensive treatment of state and local population projections was Don Pittenger's excellent work *Projecting State and Local Populations* (1976). Many changes affecting the production of population projections have occurred since that time. Technological changes have led to vast increases in computing power, new data sources, the development of GIS and the creation of the Internet. The procedures for applying a

number of projection methods have changed considerably and several completely new methods have been developed

Statistics in the 21st Century Adrian E. Raftery, Martin A. Tanner, Martin T. Wells, 2001-07-09 This volume discusses an important area of statistics and highlights the most important statistical advances It is divided into four sections statistics in the life and medical sciences business and social science the physical sciences and engineering and theory and methods of statistics

Publications of the American Statistical Association American Statistical Association, 1914 A scientific and educational journal not only for professional statisticians but also for economists business executives research directors government officials university professors and others who are seriously interested in the application of statistical methods to practical problems in the development of more useful methods and in the improvement of basic statistical data

Cohort Change Ratios and their Applications Jack Baker, David A. Swanson, Jeff Tayman, Lucky M. Tedrow, 2017-04-21 This textbook focuses on the cohort change ratio CCR method It presents powerful yet relatively simple ways to generate accurate demographic estimates and forecasts that are cost efficient and require fewer resources than other techniques The concepts analytical frameworks and methodological tools presented do not require extensive knowledge of demographics mathematics or statistics The demographic focus is on the characteristics of populations especially age and sex composition but these methods are applicable estimating and forecasting other characteristics and total population The book contains more traditional applications such as the Hamilton Perry method but also includes new applications of the CCR method such as stable population theory Real world empirical examples are provided for every application along with excel files containing data and program code which are accessible online Topics covered include basic demographic measures sources of demographic information forecasting and estimating both current and historical populations modifications to current methods forecasting school enrollment and other characteristics estimating life expectancy stable population theory decomposition of the CCR into its migration and mortality components and the utility of the CCR This textbook is designed to provide material for an advanced undergraduate or graduate course on demographic methods It can also be used as a supplement for other courses including applied demography business and economic forecasting and market research

National Population Forecasting in Industrialized Countries Nico Keilman, Harri Crujisen, 1992-06 Based on a review conducted in 1988 of national population forecasting processes applied by statistical agencies in 30 countries

A Practitioner's Guide to State and Local Population Projections Stanley K. Smith, Jeff Tayman, David A. Swanson, 2013-12-16 This book focuses on the methodology and analysis of state and local population projections It describes the most commonly used data sources and application techniques for four types of projection methods cohort component trend extrapolation structural models and microsimulation It covers the components of population growth sources of data the formation of assumptions the development of evaluation criteria and the determinants of forecast accuracy It considers the strengths and weaknesses of various projection methods and pays special attention to the unique problems that characterize small area

projections The authors provide practical guidance to demographers planners market analysts and others called on to construct state and local population projections They use many examples and illustrations and present suggestions for dealing with special populations unique circumstances and inadequate or unreliable data They describe techniques for controlling one set of projections to another for interpolating between time points for subdividing age groups and for constructing projections of population related variables e.g. school enrollment households They discuss the role of judgment and the importance of the political context in which projections are made They emphasize the utility of projections or their usefulness for decision making in a world of competing demands and limited resources This comprehensive book will provide readers with an understanding not only of the mechanics of the most commonly used population projection methods but also of the many complex issues affecting their construction interpretation evaluation and use

Ageing in Advanced Industrial States Shripad Tuljapurkar, Naohiro Ogawa, Anne H. Gauthier, 2010-08-02 Population growth slowed across the world in the last decades of the 20th century changing substantially our view of the future The 21st century is likely to see the end to world population growth and become the century of population aging marked by low fertility and ever increasing life expectancy These trends have prompted many to predict a gloomy future caused by an unprecedented economic burden of population aging In response industrialized nations will need to implement effective social and economic policies and programs This is the final volume in a series of three The papers included explore many examples and strengthen the basis for effective economic and social policies by investigating the economic social and demographic consequences of the transformations in the structures of population and family These consequences include changes in economic behavior both in labor and financial markets and with regard to saving and consumption and intergenerational transfers of money and care

The LSE Companion to Health Policy Alistair McGuire, Joan Costa-i-Font, 2012-01-01 The LSE Companion to Health Policy covers a wide range of conceptual and practical issues from a number of different perspectives introducing the reader to and summarising the vast literature that analyses the complexities of health policy the Companion also assesses the current state of the art Health policy is a wide ranging subject covering many academic disciplines but what most studies in health policy have in common is an interest in applying theory to improve practice This Companion brings academic rigour to bear evidence on a range of central areas within health policy It covers key issues on the quality access and inequalities in health and health care supply and health markets insurance and expenditures pharmaceuticals and new technologies and aging and long term care This unique Companion on health policy contains the most important features for health system reform at a time of funding constraints and will therefore hold great appeal for policy analysts and makers students academics and management professionals

Demographic Projections and Forecasts in Australia Martin Bell, 1992 A guide to demographic projections available in Australia containing 85 entries covering 39 sets of projections prepared by 42 separate organisations Entries include forecasts of population labour force members educational enrolments electoral enrolments and contact

addresses for copies

Mathematical Reviews, 2006

Unveiling the Power of Verbal Artistry: An Mental Sojourn through **Statistical Demography And Forecasting**

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