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Nota di contenuto	Preface -- PART 1. Demography and Related Applications: Health Status and the Lifespan Limit: Chapter 1 The Health Status of a Population Estimated: The History of Health State Curves: Christos H Skiadas and Charilaos Skiadas -- Chapter 2 Remarks on "Limits to Human Lifespan": Christos H Skiadas -- Chapter 3 Exploring the Health Status of a Population: A Simple Health State Model vs the Gompertz Model: Christos H Skiadas -- Chapter 4 Estimation of the healthy life expectancy in Italy through a simple model based on mortality rate: Christos Skiadas and Maria Felice Arezzo -- PART 2. Mortality Modeling and Applications: Chapter 5 Using Child, Adult, and Old-age Mortality to Establish a Developing Countries Mortality Database (DMD): Nan Li, Hong Mi and Patrick Gerland -- Chapter 6 A method for the evaluation

of Health trends in Greece, 1961-2013: Konstantinos N. Zafeiris and Christos H. Skiadas -- Chapter 7 A method for the forecasting of mortality: Konstantinos N. Zafeiris -- Chapter 8 Prospective scenarios on coverage of deaths in Brazil: Neir Antunes Paes, and Alisson dos Santos Silva -- PART 3. Statistical Models and Methods in Biostatistics and Epidemiology: Chapter 9 Applications of the Cumulative Rate to Kidney Cancer Statistics in Australia: Janelle Brennan, K.C. Chan, Rebecca Kippen, C.T. Lenard, T.M. Mills, and Ruth F.G. Williams -- Chapter 10 To Reliability of Mortality Shifts in Working Population in Russia: Alla Ivanova, Tamara Sabgaida, Viktoria Semyonova, Elena Zemlyanova -- Chapter 11 Three-way data analysis applied to cause specific mortality trends: Giuseppe Giordano, Steven Haberman, Maria Russolillo -- PART 4. Stochastic and Neuro-Fuzzy Methods: Chapter 12 Measuring Latent Variables in space and/or time: A Gender Statistics exercise: Gaia Bertarelli, Franca Crippa, and Fulvia Mecatti -- Chapter 13 Stochastic Distance between Burkitt Lymphoma/Leukemia Strains: Jesús E. García, R. Gholizadeh, and V.A. González-López -- Chapter 14 Monte Carlo Methods Applied in Health Research: Pereira JA, Mendes L, Costa A, Oliveira TA -- Chapter 15 A neuro-fuzzy approach to measuring attitudes: Maria Symeonaki, Aggeliki Kazani and C. Michalopoulou -- PART 5. Data Analysis in Demography: Chapter 16 Differences in Life Expectancy by Marital Status in the Czech Republic after 1990 and their Decomposition by Age: Tomas Fiala and Jitka Langhamrová -- Chapter 17 Air pollution and health risks: a statistical analysis aiming at improving air quality in an alpine Italian province: Giuliana Passamani, Matteo Tomaselli -- Chapter 18 AR Dynamic Evolving Neuro-Fuzzy Inference System for Mortality Data: Gabriella Piscopo -- Chapter 19 Empirical Power Study of the Jackson Exponentiality Test: Frederico Caeiro and Ayana Mateus -- Chapter 20 An intervention analysis regarding the impact of the introduction of budget airline routes to Maltese tourism demographics: Maristelle Darmanin and David Suda -- Chapter 21 Investigating Southern Europeans' Perceptions of Their Employment Status: Aggeliki Yfanti, Catherine Michalopoulou, Aggelos Misis, and Stelios Zachariou -- PART 6. Health Sciences, Demography, Risk and Insurance: Chapter 22 Risk factors of Severe Cognitive Impairment in the Czech Republic: Kornélia Cséfalvaiová and Jitka Langhamrová -- Chapter 23 On the Measurement of Early Job Insecurity in Europe: Maria Symeonaki, Glykeria Stamatopoulou and Maria Karamessini -- Chapter 24 Health estimates for some countries of the rapid developing world: Konstantinos N. Zafeiris and Christos H. Skiadas -- Chapter 25 Social capital, income inequality and the health of the elderly: Maria Felice Arezzo -- Chapter 26 Life annuity portfolios: risk-adjusted valuations and suggestions on the product attractiveness: Valeria D'Amato, Emilia Di Lorenzo, Albina Orlando, and Marilena Sibillo -- Chapter 27 Flexible retirement scheme for the Italian mortality experience: Mariarosaria Coppola, Maria Russolillo, and Rosaria Simone -- Chapter 28 Sibling Death Clustering among the Tribes of Central and Eastern India: An Application of Random Effects Probit Model: Laxmi Kant Dwivedi , Mukesh Ranjan.

Sommario/riassunto

This book provides new theories, applications and quantitative methods in demography, population studies and statistics. It presents and applies data analysis, statistics and stochastic modeling techniques focusing on demography, population aging, mortality and health sciences. The book describes diverse stochastic processes as well as Markov and semi-Markov models in demography and population studies, along with chapters on statistical models and methods in biostatistics and epidemiology. As such the book will be a valuable

source to demographers, health scientists, statisticians, economists and sociologists.
