
Contents

Part I Methodological Issues in an Historical Perspective

Bayesian and Non-Bayesian Approaches to Statistical Inference: A Personal View	3
Bruno Chiandotto	
Contributions of Italian Statisticians to the Development of Multivariate Data Analysis	15
Renato Coppi and Paolo Giordani	
The Semantic Role of Variability in the Development of Statistical Thought	27
Paola Monari	
The Permutation Testing Approach in the Light of Conditionality and Sufficiency Principles	39
Fortunato Pesarin	
Bayesian Statistical Inference: An Overview	51
Ludovico Piccinato	

Part II Historical Issues in Economic and Socio-Demographic Studies

The Long Journey of Italian Statistics on International Migration	67
Corrado Bonifazi	
The Evolution of Statistic Information on Agricultural Labour Force Through Italian Agricultural Censuses from 1961 to 2010	77
Loredana De Gaetano	
Changes in the Geographical Distribution of Inhabitants in Tuscany Since 1861	87
Luca Faustini, Linda Porciani, Graziella Sanna, Cristiano Tessitore, and Alessandro Valentini	

The “Administrative” Territory from the Unity of Italy to the Present ...	97
Orietta Gargano and Tiziana Clary	
Fifty Years of Business Confidence Surveys on Manufacturing Sector	111
Bianca M. Martelli, Giancarlo Bruno, Paola M. Chiodini, Giancarlo Manzi, and Flavio Verrecchia	
Part III New Developments in Survey Methodology for Official Statistics	
Social Aspects on Censuses and Official Surveys in Italy.....	125
Enrica Aureli and Mariangela Verrascina	
Response Burden Reduction Through the Use of Administrative Data and Robust Sampling	137
Maria Caterina Bramati	
An Application of Text Mining Technique for the Census of Nonprofit Institutions	143
Domenica Fioredistella Iezzi, Massimo Lori, Franco Lorenzini, Manuela Nicosia, and Sabrina Stoppiello	
Linking Administrative Tax Records and Survey Expenditure Data at the Local Level	153
Lisa Crosato, Mauro Mussini, Paolo Mariani, and Biancamaria Zavanella	
An Application of Statistical Matching Techniques to Produce a New Microeconomic Dataset on Farming Households’ Institutional Sector in Italy	163
Edoardo Pizzoli, Benedetto Rocchi, and Giuseppe Sacco	
Outlier Detection via Compositional Forward Search: Application to the Preliminary Data of the 2010 Italian Agricultural Census.....	175
Simona Toti, Filippo Palombi, and Romina Filippini	
Innovative Approaches to Census-Taking: Overview of the 2011 Census Round in Europe	187
Paolo Valente	
Part IV New Methodological Developments in Economic Studies	
Measuring Multidimensional Inequality: Methods and Issues in Empirical Analysis	203
David Aristei and Bruno Bracalente	

Turning the Compulsory Communication Data into a Statistical System	217
C. Baldi, G. De Blasio, G. Di Bella, A. Lucarelli, and R. Rizzi	
Credit Stress Testing from a Portfolio Perspective	227
Tiziano Bellini	
Remote Processing of Business Microdata at the Bank of Italy	239
Giuseppe Bruno, Leandro D’Aurizio, and Raffaele Tartaglia-Polcini	
A Distributional Approach for Measuring Wage Discrimination and Occupational Discrimination Separately	251
R. Giaimo and G.L. Lo Magno	
Statistics and Economics: A Complex Relationship	263
Alessandro Roncaglia	
 Part V New Methodological Developments in Educational Studies	
Design, Implementation and Validation of a Questionnaire for University Teaching Evaluation	279
Luigi D’Ambra and Maurizio Carpita	
A Family of Indices for Teaching Evaluation: Experiences in Italian Universities	293
Donata Marasini and Piero Quatto	
The Unity of Italy from the Point of View of Student Performances: Evidences from PISA 2009	303
Mariagiulia Matteucci and Marilena Pillati	
Some Experimental Results on the Role of Speed and Accuracy of Reading in Psychometric Tests	315
Isabella Morlini, Giacomo Stella, and Maristella Scorza	
A Propensity Score Matching Method to Study the Achievement of Students in Upper Secondary Schools.....	327
Giulia Roli and Luisa Stracqualursi	
 Part VI New Methodological Developments in Social and Demographic Studies	
Developing a Composite Indicator of Residents’ Well-Being: The Case of the Romagna Area.....	337
Cristina Bernini, Andrea Guizzardi, and Giovanni Angelini	

New Technologies and Statistics: Partners for Environmental Monitoring and City Sensing	347
Rina Camporese, Giovanni Borga, Niccolò Iandelli, and Antonella Ragnoli	
Recent Developments in Multidimensional Analysis for Customer Satisfaction	359
Luigi D’Ambra and Enrico Ciavolino	
Tourism Statistics for Destination Management: The Trips/Arrivals Model	371
Stefano De Cantis and Mauro Ferrante	
Non-compensatory Aggregation of Social Indicators: An Icon Representation	383
Matteo Mazziotta and Adriano Pareto	
Indicators for Assessment in Health Services	393
Cesare Cislighi and Marco Marchi	
Measuring the Multidimensional Demographic Convergence by Indices of Multiple Variability	407
Maria Rita Sebastiani	



<http://www.springer.com/978-3-319-05551-0>

Statistical Methods and Applications from a Historical
Perspective

Selected Issues

Crescenzi, F.; Mignani, S. (Eds.)

2014, XII, 414 p. 58 illus., 46 illus. in color., Hardcover

ISBN: 978-3-319-05551-0