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Autore	Beh Eric J.
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Nota di contenuto	Correspondence Analysis: Theory, Practice and New Strategies; Contents; Foreword; Preface; Part One: Introduction; 1 Data Visualisation; 1.1 A Very Brief Introduction to Data Visualisation; 1.1.1 A Very Brief History; 1.1.2 Introduction to Visualisation Tools for Numerical Data; 1.1.3 Introduction to Visualisation Tools for Univariate Categorical Data; 1.2 Data Visualisation for Contingency Tables; 1.2.1 Fourfold Displays; 1.3 Other Plots; 1.4 Studying Exposure to Asbestos; 1.4.1 Asbestos and Irving J. Selikoff; 1.4.2 Selikoff's Data; 1.4.3 Numerical Analysis of Selikoff's Data 1.4.4 A Graphical Analysis of Selikoff's Data 1.4.5 Classical Correspondence Analysis of Selikoff's Data; 1.4.6 Other Methods of Graphical Analysis; 1.5 Happiness Data; 1.6 Correspondence Analysis Now; 1.6.1 A Bibliographic Taste; 1.6.2 The Increasing Popularity of Correspondence Analysis; 1.6.3 The Growth of the Correspondence Analysis Family Tree; 1.7 Overview of the Book; 1.8 R Code; References; 2 Pearson's Chi-Squared Statistic; 2.1 Introduction; 2.2 Pearson's Chi-Squared Statistic; 2.2.1 Notation; 2.2.2 Measuring the Departure from Independence; 2.2.3 Pearson's Chi-Squared Statistic 2.6.3 The Cressie--Read StatisticReferences; Part Two: Correspondence Analysis of Two-Way Contingency Tables; 3 Methods of Decomposition; 3.1 Introduction; 3.2 Reducing Multidimensional Space; 3.3 Profiles and

Cloud of Points; 3.4 Property of Distributional Equivalence; 3.5 The Triplet and Classical Reciprocal Averaging; 3.5.1 One-Dimensional Reciprocal Averaging; 3.5.2 Matrix Form of One-Dimensional Reciprocal Averaging; 3.5.3 M-Dimensional Reciprocal Averaging; 3.5.4 Some Historical Comments; 3.6 Solving the Triplet Using Eigen-Decomposition; 3.6.1 The Decomposition; 3.6.2 Example
3.7 Solving the Triplet Using Singular Value Decomposition
3.7.1 The Standard Decomposition; 3.7.2 The Generalised Decomposition; 3.8 The Generalised Triplet and Reciprocal Averaging; 3.9 Solving the Generalised Triplet Using Gram--Schmidt Process; 3.9.1 Ordered Categorical Variables and a priori Scores; 3.9.2 On Finding Orthogonalised Vectors; 3.9.3 A Recurrence Formulae Approach; 3.9.4 Changing the Basis Vector; 3.9.5 Generalised Correlations; 3.10 Bivariate Moment Decomposition; 3.11 Hybrid Decomposition; 3.11.1 An Alternative Singly Ordered Approach; 3.12 R Code
3.12.1 Eigen-Decomposition in R

Sommario/riassunto

A comprehensive overview of the internationalisation of correspondence analysis. Correspondence Analysis: Theory, Practice and New Strategies examines the key issues of correspondence analysis, and discusses the new advances that have been made over the last 20 years. The main focus of this book is to provide a comprehensive discussion of some of the key technical and practical aspects of correspondence analysis, and to demonstrate how they may be put to use. Particular attention is given to the history and mathematical links of the developments made. These links include not just those major
