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Nota di contenuto	Exploratory Data Mining and Data Cleaning; Contents; Preface; 1. Exploratory Data Mining and Data Cleaning: An Overview; 1.1 Introduction; 1.2 Cautionary Tales; 1.3 Taming the Data; 1.4 Challenges; 1.5 Methods; 1.6 EDM; 1.6.1 EDM Summaries-Parametric; 1.6.2 EDM Summaries-Nonparametric; 1.7 End-to-End Data Quality (DQ); 1.7.1 DQ in Data Preparation; 1.7.2 EDM and Data Glitches; 1.7.3 Tools for DQ; 1.7.4 End-to-End DQ: The Data Quality Continuum; 1.7.5 Measuring Data Quality; 1.8 Conclusion; 2. Exploratory Data Mining; 2.1 Introduction; 2.2 Uncertainty; 2.2.1 Annotated Bibliography 2.3 EDM: Exploratory Data Mining2.4 EDM Summaries; 2.4.1 Typical Values; 2.4.2 Attribute Variation; 2.4.3 Example; 2.4.4 Attribute Relationships; 2.4.5 Annotated Bibliography; 2.5 What Makes a Summary Useful?; 2.5.1 Statistical Properties; 2.5.2 Computational Criteria; 2.5.3 Annotated Bibliography; 2.6 Data-Driven Approach-

Nonparametric Analysis; 2.6.1 The Joy of Counting; 2.6.2 Empirical Cumulative Distribution Function (ECDF); 2.6.3 Univariate Histograms; 2.6.4 Annotated Bibliography; 2.7 EDM in Higher Dimensions; 2.8 Rectilinear Histograms; 2.9 Depth and Multivariate Binning
 2.9.1 Data Depth 2.9.2 Aside: Depth-Related Topics; 2.9.3 Annotated Bibliography; 2.10 Conclusion; 3. Partitions and Piecewise Models; 3.1 Divide and Conquer; 3.1.1 Why Do We Need Partitions?; 3.1.2 Dividing Data; 3.1.3 Applications of Partition-Based EDM Summaries; 3.2 Axis-Aligned Partitions and Data Cubes; 3.2.1 Annotated Bibliography; 3.3 Nonlinear Partitions; 3.3.1 Annotated Bibliography; 3.4 DataSpheres (DS); 3.4.1 Layers; 3.4.2 Data Pyramids; 3.4.3 EDM Summaries; 3.4.4 Annotated Bibliography; 3.5 Set Comparison Using EDM Summaries; 3.5.1 Motivation; 3.5.2 Comparison Strategy
 3.5.3 Statistical Tests for Change 3.5.4 Application-Two Case Studies; 3.5.5 Annotated Bibliography; 3.6 Discovering Complex Structure in Data with EDM Summaries; 3.6.1 Exploratory Model Fitting in Interactive Response Time; 3.6.2 Annotated Bibliography; 3.7 Piecewise Linear Regression; 3.7.1 An Application; 3.7.2 Regression Coefficients; 3.7.3 Improvement in Fit; 3.7.4 Annotated Bibliography; 3.8 One-Pass Classification; 3.8.1 Quantile-Based Prediction with Piecewise Models; 3.8.2 Simulation Study; 3.8.3 Annotated Bibliography; 3.9 Conclusion;
 4. Data Quality; 4.1 Introduction
 4.2 The Meaning of Data Quality 4.2.1 An Example; 4.2.2 Data Glitches; 4.2.3 Conventional Definition of DQ; 4.2.4 Times Have Changed; 4.2.5 Annotated Bibliography; 4.3 Updating DQ Metrics: Data Quality Continuum; 4.3.1 Data Gathering; 4.3.2 Data Delivery; 4.3.3 Data Monitoring; 4.3.4 Data Storage; 4.3.5 Data Integration; 4.3.6 Data Retrieval; 4.3.7 Data Mining/Analysis; 4.3.8 Annotated Bibliography;
 4.4 The Meaning of Data Quality Revisited; 4.4.1 Data Interpretation; 4.4.2 Data Suitability; 4.4.3 Dataset Type; 4.4.4 Attribute Type; 4.4.5 Application Type
 4.4.6 Data Quality-A Many Splendored Thing

Sommario/riassunto

Written for practitioners of data mining, data cleaning and database management. Presents a technical treatment of data quality including process, metrics, tools and algorithms. Focuses on developing an evolving modeling strategy through an iterative data exploration loop and incorporation of domain knowledge. Addresses methods of detecting, quantifying and correcting data quality issues that can have a significant impact on findings and decisions, using commercially available tools as well as new algorithmic approaches. Uses case studies to illustrate applications in real

2. Record Nr.	UNISALENTO991002247579707536
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Pubbl/distr/stampa	Roma : Istituto Nazionale di Economia agraria, 1943
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