

# Data Quality and Record Linkage Techniques

# Data Quality And Record Linkage Techniques

**Peter Christen**



## **Data Quality And Record Linkage Techniques:**

Data Quality and Record Linkage Techniques Thomas N. Herzog, Fritz J. Scheuren, William E. Winkler, 2007-05-23 This book offers a practical understanding of issues involved in improving data quality through editing imputation and record linkage The first part of the book deals with methods and models focusing on the Fellegi Holt edit imputation model the Little Rubin multiple imputation scheme and the Fellegi Sunter record linkage model The second part presents case studies in which these techniques are applied in a variety of areas including mortgage guarantee insurance medical biomedical highway safety and social insurance as well as the construction of list frames and administrative lists This book offers a mixture of practical advice mathematical rigor management insight and philosophy *Data Matching* Peter Christen, 2012-07-04 Data matching also known as record or data linkage entity resolution object identification or field matching is the task of identifying matching and merging records that correspond to the same entities from several databases or even within one database Based on research in various domains including applied statistics health informatics data mining machine learning artificial intelligence database management and digital libraries significant advances have been achieved over the last decade in all aspects of the data matching process especially on how to improve the accuracy of data matching and its scalability to large databases Peter Christen's book is divided into three parts Part I Overview introduces the subject by presenting several sample applications and their special challenges as well as a general overview of a generic data matching process Part II Steps of the Data Matching Process then details its main steps like pre processing indexing field and record comparison classification and quality evaluation Lastly part III Further Topics deals with specific aspects like privacy real time matching or matching unstructured data Finally it briefly describes the main features of many research and open source systems available today By providing the reader with a broad range of data matching concepts and techniques and touching on all aspects of the data matching process this book helps researchers as well as students specializing in data quality or data matching aspects to familiarize themselves with recent research advances and to identify open research challenges in the area of data matching To this end each chapter of the book includes a final section that provides pointers to further background and research material Practitioners will better understand the current state of the art in data matching as well as the internal workings and limitations of current systems Especially they will learn that it is often not feasible to simply implement an existing off the shelf data matching system without substantial adaption and customization Such practical considerations are discussed for each of the major steps in the data matching process

## **Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics**

Khosrow-Pour, D.B.A., Mehdi, 2018-10-19 From cloud computing to data analytics society stores vast supplies of information through wireless networks and mobile computing As organizations are becoming increasingly more wireless ensuring the security and seamless function of electronic gadgets while creating a strong network is imperative Advanced Methodologies

and Technologies in Network Architecture Mobile Computing and Data Analytics highlights the challenges associated with creating a strong network architecture in a perpetually online society Readers will learn various methods in building a seamless mobile computing option and the most effective means of analyzing big data This book is an important resource for information technology professionals software developers data analysts graduate level students researchers computer engineers and IT specialists seeking modern information on emerging methods in data mining information technology and wireless networks *Trends and Applications in Knowledge Discovery and Data Mining* Jiuyong Li, Longbing Cao, Can Wang, Kay Chen Tan, Bo Liu, Jian Pei, Vincent S. Tseng, 2013-08-23 This book constitutes the refereed proceedings at PAKDD Workshops 2013 affiliated with the 17th Pacific Asia Conference on Knowledge Discovery and Data Mining PAKDD held in Gold Coast Australia in April 2013 The 47 revised full papers presented were carefully reviewed and selected from 92 submissions The workshops affiliated with PAKDD 2013 include Data Mining Applications in Industry and Government DMAPps Data Analytics for Targeted Healthcare DANTH Quality Issues Measures of Interestingness and Evaluation of Data Mining Models QIMIE Biologically Inspired Techniques for Data Mining BDM Constraint Discovery and Application CDA Cloud Service Discovery CloudSD **The SAGE Handbook of Survey Methodology** Christof Wolf, Dominique Joye, Tom W Smith, Yang-chih Fu, 2016-07-11 Survey Methodology is becoming a more structured field of research deserving of more and more academic attention The SAGE Handbook of Survey Methodology explores both the increasingly scientific endeavour of surveys and their growing complexity as different data collection modes and information sources are combined The handbook takes a global approach with a team of international experts looking at local and national specificities as well as problems of cross national comparative survey research The chapters are organized into seven major sections each of which represents a stage in the survey life cycle Surveys and Societies Planning a Survey Measurement Sampling Data Collection Preparing Data for Use Assessing and Improving Data Quality The SAGE Handbook of Survey Methodology is a landmark and essential tool for any scholar within the social sciences Executing Data Quality Projects Danette McGilvray, 2008-09-01 Information is currency Recent studies show that data quality problems are costing businesses billions of dollars each year with poor data linked to waste and inefficiency damaged credibility among customers and suppliers and an organizational inability to make sound decisions In this important and timely new book Danette McGilvray presents her Ten Steps approach to information quality a proven method for both understanding and creating information quality in the enterprise Her trademarked approach in which she has trained Fortune 500 clients and hundreds of workshop attendees applies to all types of data and to all types of organizations Includes numerous templates detailed examples and practical advice for executing every step of the Ten Steps approach Allows for quick reference with an easy to use format highlighting key concepts and definitions important checkpoints communication activities and best practices A companion Web site includes links to numerous data quality resources including many of the planning and information gathering templates featured in the text quick summaries

of key ideas from the Ten Step methodology and other tools and information available online

### **Handbook of Data**

**Intensive Computing** Borko Furht, Armando Escalante, 2011-12-09 Data Intensive Computing refers to capturing managing analyzing and understanding data at volumes and rates that push the frontiers of current technologies The challenge of data intensive computing is to provide the hardware architectures and related software systems and techniques which are capable of transforming ultra large data into valuable knowledge Handbook of Data Intensive Computing is written by leading international experts in the field Experts from academia research laboratories and private industry address both theory and application Data intensive computing demands a fundamentally different set of principles than mainstream computing Data intensive applications typically are well suited for large scale parallelism over the data and also require an extremely high degree of fault tolerance reliability and availability Real world examples are provided throughout the book Handbook of Data Intensive Computing is designed as a reference for practitioners and researchers including programmers computer and system infrastructure designers and developers This book can also be beneficial for business managers entrepreneurs and investors

*Robust Quality* Rajesh Jugulum, 2018-09-03 Historically the term quality was used to measure performance in the context of products processes and systems With rapid growth in data and its usage data quality is becoming quite important It is important to connect these two aspects of quality to ensure better performance This book provides a strong connection between the concepts in data science and process engineering that is necessary to ensure better quality levels and takes you through a systematic approach to measure holistic quality with several case studies Features Integrates data science analytics and process engineering concepts Discusses how to create value by considering data analytics and processes Examines metrics management technique that will help evaluate performance levels of processes systems and models including AI and machine learning approaches Reviews a structured approach for analytics execution

### **Handbook of Data Quality**

Shazia Sadiq, 2013-08-13 The issue of data quality is as old as data itself However the proliferation of diverse large scale and often publically available data on the Web has increased the risk of poor data quality and misleading data interpretations On the other hand data is now exposed at a much more strategic level e g through business intelligence systems increasing manifold the stakes involved for individuals corporations as well as government agencies There the lack of knowledge about data accuracy currency or completeness can have erroneous and even catastrophic results With these changes traditional approaches to data management in general and data quality control specifically are challenged There is an evident need to incorporate data quality considerations into the whole data cycle encompassing managerial governance as well as technical aspects Data quality experts from research and industry agree that a unified framework for data quality management should bring together organizational architectural and computational approaches Accordingly Sadiq structured this handbook in four parts Part I is on organizational solutions i e the development of data quality objectives for the organization and the development of strategies to establish roles processes policies and standards required to manage and

ensure data quality Part II on architectural solutions covers the technology landscape required to deploy developed data quality management processes standards and policies Part III on computational solutions presents effective and efficient tools and techniques related to record linkage lineage and provenance data uncertainty and advanced integrity constraints Finally Part IV is devoted to case studies of successful data quality initiatives that highlight the various aspects of data quality in action The individual chapters present both an overview of the respective topic in terms of historical research and or practice and state of the art as well as specific techniques methodologies and frameworks developed by the individual contributors Researchers and students of computer science information systems or business management as well as data professionals and practitioners will benefit most from this handbook by not only focusing on the various sections relevant to their research area or particular practical work but by also studying chapters that they may initially consider not to be directly relevant to them as there they will learn about new perspectives and approaches

**Advances in Information and Communication** Kohei Arai, 2021-04-15 This book aims to provide an international forum for scholarly researchers practitioners and academic communities to explore the role of information and communication technologies and its applications in technical and scholarly development The conference attracted a total of 464 submissions of which 152 submissions including 4 poster papers have been selected after a double blind review process Academic pioneering researchers scientists industrial engineers and students will find this series useful to gain insight into the current research and next generation information science and communication technologies This book discusses the aspects of communication data science ambient intelligence networking computing security and Internet of things from classical to intelligent scope The authors hope that readers find the volume interesting and valuable it gathers chapters addressing state of the art intelligent methods and techniques for solving real world problems along with a vision of the future research

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## Data Quality And Record Linkage Techniques Introduction

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading Data Quality And Record Linkage Techniques free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of knowledge. Open Library also allows users to contribute by uploading and sharing their own PDF files, making it a collaborative platform for book enthusiasts. For those interested in academic resources, there are websites dedicated to providing free PDFs of research papers and scientific articles. One such website is Academia.edu, which allows researchers and scholars to share their work with a global audience. Users can download PDF files of research papers, theses, and dissertations covering a wide range of subjects. Academia.edu also provides a platform for discussions and networking within the academic community. When it comes to downloading Data Quality And Record Linkage Techniques free PDF files of magazines, brochures, and catalogs, Issuu is a popular choice. This digital publishing platform hosts a vast collection of publications from around the world. Users can search for specific titles or explore various categories and genres. Issuu offers a seamless reading experience with its user-friendly interface and allows users to download PDF files for offline reading. Apart from dedicated platforms, search engines also play a crucial role in finding free PDF files. Google, for instance, has an advanced search feature that allows users to filter results by file type. By specifying the file type as "PDF," users can find websites that offer free PDF downloads on a specific topic. While downloading Data Quality And Record Linkage Techniques free PDF files is convenient, its important to note that copyright laws must be respected. Always ensure

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