

Shazia Sadiq *Editor*

Handbook of Data Quality

Research and Practice

 Springer

Handbook Of Data Quality Research And Practice

Didier Musso



Handbook Of Data Quality Research And Practice:

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.

Executing Data Quality Projects Danette McGilvray, 2021-05-27 *Executing Data Quality Projects* Second Edition presents a structured yet flexible approach for creating, improving, sustaining and managing the quality of data and information within any organization. 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. Help is here. This book describes a proven Ten Step approach that combines a conceptual framework for understanding information quality with techniques, tools and instructions for practically putting the approach to work with the end result of high quality, trusted data and information so critical to today's data dependent organizations. The Ten Steps approach applies to all types of data and all types of organizations for profit in any industry, non profit, government, education.

healthcare science research and medicine This book includes numerous templates detailed examples and practical advice for executing every step At the same time readers are advised on how to select relevant steps and apply them in different ways to best address the many situations they will face The layout allows for quick reference with an easy to use format highlighting key concepts and definitions important checkpoints communication activities best practices and warnings The experience of actual clients and users of the Ten Steps provide real examples of outputs for the steps plus highlighted sidebar case studies called Ten Steps in Action This book uses projects as the vehicle for data quality work and the word broadly to include 1 focused data quality improvement projects such as improving data used in supply chain management 2 data quality activities in other projects such as building new applications and migrating data from legacy systems integrating data because of mergers and acquisitions or untangling data due to organizational breakups and 3 ad hoc use of data quality steps techniques or activities in the course of daily work The Ten Steps approach can also be used to enrich an organization s standard SDLC whether sequential or Agile and it complements general improvement methodologies such as six sigma or lean No two data quality projects are the same but the flexible nature of the Ten Steps means the methodology can be applied to all The new Second Edition highlights topics such as artificial intelligence and machine learning Internet of Things security and privacy analytics legal and regulatory requirements data science big data data lakes and cloud computing among others to show their dependence on data and information and why data quality is more relevant and critical now than ever before Includes concrete instructions numerous templates and practical advice for executing every step of The Ten Steps approach Contains real examples from around the world gleaned from the author s consulting practice and from those who implemented based on her training courses and the earlier edition of the book 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 templates featured in the text quick summaries of key ideas from the Ten Steps methodology and other tools and information that are available online

Data Quality Management with Semantic Technologies Christian Fürber,2015-12-11 Christian F rber investigates the useful application of semantic technologies for the area of data quality management Based on a literature analysis of typical data quality problems and typical activities of data quality management processes he develops the Semantic Data Quality Management framework as the major contribution of this thesis The SDQM framework consists of three components that are evaluated in two different use cases Moreover this thesis compares the framework to conventional data quality software Besides the framework this thesis delivers important theoretical findings namely a comprehensive typology of data quality problems ten generic data requirement types a requirement centric data quality management process and an analysis of related work

Computing Handbook, Third Edition Teofilo Gonzalez,Jorge Diaz-Herrera,Allen Tucker,2014-05-07 Computing Handbook Third Edition Computer Science and Software Engineering mirrors the modern taxonomy of computer

science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers the first volume of this popular handbook examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals Like the second volume this first volume describes what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today s world Research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and development in the twenty first century

Implementation and Benefits of Digital Twin on Decision Making and Data Quality Management Florian Blaschke,2024-04-11 Digital twin technology is becoming important for the realization of Industry 4 0 using cyber physical systems CPS and information technology CPS form the backbone to support the creation of a network for decentralized and autonomous decision making The design principles for Industry 4 0 serve as guidelines for virtualization concepts that are virtual copies of the physical world and create a link between the real and virtual worlds to collect data and monitor processes the so called digital twin In this book a theoretical digital twin driven decision making model has been developed that combines corporate data quality management a process digital twin and a model driven decision support system It leverages the benefits of the digital twin to create test and build a process in the virtual world that supports decision making by combining data analytics and visualization of insights to help managers make better decisions

Computing Handbook Allen Tucker,Teofilo Gonzalez,Heikki Topi,Jorge Diaz-Herrera,2022-05-29 This two volume set of the Computing Handbook Third Edition previously theComputer Science Handbook provides up to date information on a wide range of topics in computer science information systems IS information technology IT and software engineering The third edition of this popular handbook addresses not only the dramatic growth of computing as a discipline but also the relatively new delineation of computing as a family of separate disciplines as described by the Association for Computing Machinery ACM the IEEE Computer Society IEEE CS and the Association for Information Systems AIS Both volumes in the set describe what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today s world Research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and development in the twenty first century Chapters are organized with minimal interdependence so that they can be read in any order and each volume contains a table of contents and subject index offering easy access to specific topics The first volume of this popular handbook mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE

Computer Society IEEE CS Written by established leading experts and influential young researchers it examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals The second volume of this popular handbook demonstrates the richness and breadth of the IS and IT disciplines The book explores their close links to the practice of using managing and developing IT based solutions to advance the goals of modern organizational environments Established leading experts and influential young researchers present introductions to the current status and future directions of research and give in depth perspectives on the contributions of academic research to the practice of IS and IT development use and management 13th International Conference on Intellectual Capital Knowledge Management & Organisational Learning ,

Corporate Data Quality Boris Otto, Hubert Österle, 2015-12-08 Data is the foundation of the digital economy Industry 4 0 and digital services are producing so far unknown quantities of data and make new business models possible Under these circumstances data quality has become the critical factor for success This book presents a holistic approach for data quality management and presents ten case studies about this issue It is intended for practitioners dealing with data quality management and data governance as well as for scientists The book was written at the Competence Center Corporate Data Quality CC CDQ in close cooperation between researchers from the University of St Gallen and Fraunhofer IML as well as many representatives from more than 20 major corporations Chapter 1 introduces the role of data in the digitization of business and society and describes the most important business drivers for data quality It presents the Framework for Corporate Data Quality Management and introduces essential terms and concepts Chapter 2 presents practical successful examples of the management of the quality of master data based on ten cases studies that were conducted by the CC CDQ The case studies cover every aspect of the Framework for Corporate Data Quality Management Chapter 3 describes selected tools for master data quality management The three tools have been distinguished through their broad applicability method for DQM strategy development and DQM maturity assessment and their high level of innovation Corporate Data League Chapter 4 summarizes the essential factors for the successful management of the master data quality and provides a checklist of immediate measures that should be addressed immediately after the start of a data quality management project This guarantees a quick start into the topic and provides initial recommendations for actions to be taken by project and line managers Please also check out the book s homepage at cdq-book.org **Social and Economic Perspectives on**

Sustainability Raya Tsvetkova, Savina Ezekieva, Caroline Duvier, Crina Oltean-Dumbrava, Dilek Akbaş Akdoğan, Coşkun Karaca, Övünç Gürsoy, Semra F. Aşçıgil, Uğur Soytas, Meltem Ö. Özcanlı, Sadullah Çelik, Aslı Yüksel Mermod, Ayşe Demirhan, Serdar Bozkurt, Burcu Yiğit, Mehmet Çağlar, Solomon Chukwuemeka Ugbajaa, Refika Bakoğlu, Neşe Soysal, Ahmet Ok, Merve Er Kara, Özlem Yurtsever, Seniye Ümit Oktay Fırat, Ayşe Ümit Gökdeniz, Ayşe Uygur, Recep Kurt, Artür Yetvart Mumcu, Ozan

Emre Ufacık,2016-12-20 The term Sustainability possesses numerous meanings for different people and various circumstances and it is a common mistake to define sustainability strictly in terms of environmental sustainability is misconception believes the major flaw of the contemporary pattern of development is simply its destruction of the environment Handling sustainability only from an environmental standpoint is a superficial view that needs to be assessed carefully and underlined correctly As A D Basiago suggests the protection of natural systems represents not an overarching panacea for achieving economic vitality and social justice but a necessary component of an entire system for achieving economic social and environmental sustainability in which economic reforms and social reforms are as important The chapters included in this volume are composed of some selected significant contributions from the first International Sustainability Congress organized by International Center of Sustainability ICS 13 December 2016 in Istanbul Turkey All chapters are peer reviewed by both the editors and at least two independent scholars from fields relevant to the manuscript's subject area ICS is a research and academic center for sustainability founded in 2015 and dedicated to build resilience of communities and ecosystems to environmental and socio economic risks ICS has an integrated approach and specifies sustainability not only from an environmental point of view but also in terms of socio economic process Its mission is to produce information as well as enhance research and practice at Micro and Macro levels in Sustainable Development with a holistic and a cross disciplinary approach

Quantitative Criminology Handbook Neeraj Venkataraman,2025-02-20 Quantitative Criminology Handbook serves as a comprehensive guide to applying statistical and mathematical methods in understanding and addressing crime and criminal behavior We delve into various quantitative techniques used by criminologists to analyze crime patterns assess risk factors and evaluate the effectiveness of crime prevention strategies Covering a wide range of topics we explore key concepts such as regression analysis correlation spatial analysis and machine learning in criminological research Readers gain insights into how quantitative methods study recidivism crime hotspots offender characteristics and the impact of social and environmental factors on criminal activities We address methodological and ethical considerations discussing data collection techniques model validation interpretation of results and the importance of transparency and reproducibility in quantitative research Written by experts in the field Quantitative Criminology Handbook provides researchers practitioners policymakers and students with a valuable resource for advancing their understanding of crime analysis risk assessment crime prevention and evidence based decision making in the criminal justice system With practical insights case studies and discussions on emerging trends our handbook is essential for anyone interested in applying quantitative methods to criminological research and practice

Handbook on Hedonic Indexes and Quality Adjustments in Price Indexes Special Application to Information Technology Products Triplett Jack,2006-09-21 Price indexes can be constructed using a hedonic method that adjusts for changes in the quality of a product This handbook sets out best practice for constructing hedonic indexes

The Sage Handbook of Qualitative Research Quality Uwe Flick,2024-12-12 This

Sage Handbook presents an interdisciplinary collection of chapters exploring how to assess the quality of collecting and analysing qualitative data while maintaining a focus on diversity digital and critical approaches The Handbook considers essential questions such as what is good qualitative research What makes qualitative research good research And how can we make qualitative research better research Contributions come from a wide array of experts and highlight answers to questions from various disciplinary and geographical areas from mixed methods to multimodal and online research from specific types of data and methods to specific target groups and from theoretical and epistemological contexts to those where funding has an impact on how research is done and assessed Qualitative research has evolved in many respects in recent decades and has grown increasingly multidisciplinary Research in general is facing new challenges around how to take diversity and decolonisation into account in what researchers do as well as how to produce and communicate qualitative research quality This Handbook offers a timely overview of such developments and will support researchers involved in planning designing doing and evaluating qualitative research in developing an increased sensitivity for contemporary debates and challenges in the field Part I Philosophies and Epistemologies of Qualitative Research Quality Part II Disciplinary Discourses of Qualitative Research Quality Part III Qualitative Research Quality for Specific Approaches Part IV Rethinking Qualitative Research Quality for Specific Methods and Data Part V Rethinking Strategies for Quality in Qualitative Research Part VI Rethinking Criteria for Quality in Qualitative Research Part VII Extending Contexts and Challenges for Qualitative Research Quality

The SAGE Handbook of Qualitative Data Analysis Uwe Flick, 2013-12-18 The wide range of approaches to data analysis in qualitative research can seem daunting even for experienced researchers This handbook is the first to provide a state of the art overview of the whole field of QDA from general analytic strategies used in qualitative research to approaches specific to particular types of qualitative data including talk text sounds images and virtual data The handbook includes chapters on traditional analytic strategies such as grounded theory content analysis hermeneutics phenomenology and narrative analysis as well as coverage of newer trends like mixed methods reanalysis and meta analysis Practical aspects such as sampling transcription working collaboratively writing and implementation are given close attention as are theory and theorization reflexivity and ethics Written by a team of experts in qualitative research from around the world this handbook is an essential compendium for all qualitative researchers and students across the social sciences

The Palgrave Handbook of Global Health Data Methods for Policy and Practice Sarah B. Macfarlane, Carla AbouZahr, 2019-03-05 This handbook compiles methods for gathering organizing and disseminating data to inform policy and manage health systems worldwide Contributing authors describe national and international structures for generating data and explain the relevance of ethics policy epidemiology health economics demography statistics geography and qualitative methods to describing population health The reader whether a student of global health public health practitioner programme manager data analyst or policymaker will appreciate the methods context and importance of collecting and using global

health data **The Psychology Research Handbook** Frederick T. L. Leong, James T. Austin, 2023-12-09 In the Third Edition of The Psychology Research Handbook expert researchers provide graduate students and research assistants with a comprehensive framework for conducting psychology research The book is organized around the idea of a research script following the step by step process of planning design data collection analysis and dissemination *The De Gruyter Handbook on Law and Digital Technologies* Massimo Durante, Ugo Pagallo, 2025-09-22 The De Gruyter Handbook on Law and Digital Technologies provides a comprehensive accessible and thought provoking guide to the current and future regulation of digital technologies It addresses key legal challenges such as reconceptualizing crucial deep rooted notions including those of person autonomy democracy the rule of law sovereignty constitutionalism and governance The handbook proposes critical explorations of the potential impact of digital technologies on new and traditional forms of governance and regulation across different and competitive normative perspectives such as law economy social norms and legal design In this framework it addresses the societal transformations brought about by digital technologies the legal means for regulating the field and the impact of governance in areas such as fintech sustainability outer space or healthcare **A Laboratory Quality Handbook of Best Practices** Donald C. Singer, 2001-09-25 Based on the work of a collection of experts from the laboratory science and quality assurance fields A Laboratory Quality Handbook of Best Practices and Relevant Regulations provides all of the information needed to run a successful laboratory that is in compliance with all regulations From sample tracking to accurate documentation training to methods validation maintenance to calibration and out of spec responses to preparation for audits a combination of people instrumentation and documentation must work in sync for high quality results This handbook provides information that will help a laboratory achieve high quality results and compliance Contents Quality Assurance in the Laboratory History of Regulation Training in the Laboratory Laboratory Documentation and Data Sample Control and LIM Systems Methods Validation *Handbook of Toxicology, Third Edition* Michael J. Derelanko, Carol S. Auletta, 2014-03-07 The Handbook of Toxicology Third Edition provides an updated practical reference source for practicing toxicologists in the pharmaceutical and chemical industries contract laboratories regulatory agencies and academia Written by experts in their specific toxicology fields the chapters provide both fundamental and applied information Topics range from General Toxicology to Genetic Toxicology Human Clinical Toxicology Histopathology Clinical Pathology Metabolism and Toxicokinetics Risk Assessment and more New to this edition Completely rewritten chapters covering immunotoxicology endocrine toxicology and reproductive and developmental toxicology providing a fresh perspective on these topics Addition of new chapters on Chemical Toxicology Pharmaceutical Toxicology Juvenile Toxicology and Safety Pharmacology Updated information dealing with Inhalation Toxicology Neurotoxicology and Regulatory Toxicology which has been consolidated into single chapters for each specialty A separate glossary with toxicological terms presented both alphabetically and by toxicological subspecialty For nearly 20 years this handbook has remained the only reference book of its kind designed to

facilitate easy access to information related to the various toxicology specialties This updated edition of a popular reference book reflects current practices and the state of the science of toxicology

The Oxford Handbook of Qualitative Research Patricia Leavy, 2020 The Oxford Handbook of Qualitative Research Second Edition presents a comprehensive interdisciplinary overview of the field of qualitative research Divided into eight parts the forty chapters address key topics in the field such as approaches to qualitative research philosophical perspectives narrative inquiry field research and interview methods text arts based and internet methods analysis and interpretation of findings and representation and evaluation The handbook is intended for students of all levels faculty and researchers across the disciplines and the contributors represent some of the most influential and innovative researchers as well as emerging scholars This handbook provides a broad introduction to the field of qualitative research to those with little to no background in the subject while providing substantive contributions to the field that will be of interest to even the most experienced researchers It serves as a user friendly teaching tool suitable for a range of undergraduate or graduate courses as well as individuals working on their thesis or other research projects With a focus on methodological instruction the incorporation of real world examples and practical applications and ample coverage of writing and representation this volume offers everything readers need to undertake their own qualitative studies

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