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Data-Centric Systems and Applications. Presents an extensive description of the techniques that constitute the core of data and information quality research. Combines concrete practical solutions, such as methodologies, benchmarks, and case studies with sound theoretical formalisms.

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Data and Information Quality -
Dimensions, Principles and ...
Furthermore, while systematically
describing data and information quality as
an autonomous research area, paradigms
and influences deriving from other areas,
such as probability theory, statistical data

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analysis, data mining, knowledge representation, and machine learning are also included.

Data and Information Quality |
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Information is data that is meant to be used by people. As such, quality

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information is designed for human comprehension. As such, quality information is designed for human comprehension. If most observers misinterpret an information item, it can be considered low quality even if it is technically correct.

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8 Types of Information Quality -
Simplicable

High-quality data is also much easier to use than poor-quality data. Having quality data at your fingertips increases your company ' s efficiency as well. If your information is not complete or consistent, you have to spend significant amounts of

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time fixing that data to make it useable.

Why Is Data Quality Important? | What
is Data Quality?

Information quality is a multi-attribute
concept. If the attributes that define
quality of information are of good quality
or of high value then the information is

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said to have good quality. The attributes of quality of information are: Timeliness- The speed at which the information is received.

What is Quality of Information? -

Computer Notes

Information management and data quality

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Information management. Being open and transparent is a crucial part of policing. Every piece of information recorded on... Data quality. Data quality is key to successful information management. We ensure all information is recorded properly... Fair ...

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Information management and data quality
Data quality The DQMI is a monthly publication about data quality in the NHS, which provides data submitters with timely and transparent information.

Data quality - NHS Digital
Dimensions and metrics of information

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quality "Information quality" is a measure of the value which the information provides to the user of that information.

"Quality" is often perceived as subjective and the quality of information can then vary among users and among uses of the information. Nevertheless, a high degree of quality increases its objectivity or at

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least the intersubjectivity. Accuracy can be seen as just one element of IQ but, depending upon how it is defined, can also be seen ...

Information quality - Wikipedia

Data is a collection of values. Those values can be characters, numbers, or any other

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data type. If those values are not processed, they have little meaning to a human. Information is data that was processed so a human can read, understand, and use it.

What is the difference between data and information?

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Data versus Information comparison chart; Data Information; Meaning: Data is raw, unorganized facts that need to be processed. Data can be something simple and seemingly random and useless until it is organized. When data is processed, organized, structured or presented in a given context so as to make it useful, it is

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called information. Example

Data vs Information - Difference and
Comparison | Diffen

The Data Governance and Information
Quality Conference (DGIQ) is the
world ' s largest event dedicated entirely
to Data Governance and Information

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Quality. Whether you are a newcomer or an experienced data professional, this conference offers sessions and tutorials for all levels of experience. As an attendee, you can choose from over a dozen tutorials and workshops, several two-day seminars, and many general conference sessions filling various topic-specific tracks.

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2020 Data Governance & Information
Quality Conference

Their data quality dimensions include:

Completeness – a percentage of data that includes one or more values. It ' s important that critical data (such as customer names, phone numbers, email

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addresses, etc.) be completed first since completeness doesn't impact non-critical data that much.

What is Data Quality and How Do You Measure It for Best ...

JDIQ's mission is to publish high quality articles that make a significant and novel

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contribution to the field of data and information quality. JDIQ welcomes research contributions on the following areas, but not limited to: Information Quality in the Enterprise Context; Database related technical solutions for Information Quality; Information Quality in the context of Computer Science and

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Information Technology; Information
Curation.

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Data quality refers to the state of qualitative or quantitative pieces of information. There are many definitions of data quality, but data is generally

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considered high quality if it is "fit for [its] intended uses in operations, decision making and planning ".

Data quality - Wikipedia

Data is of high quality, if the data is fit for the intended purpose of use Data is of high quality, if the data correctly represent the

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real-world construct that the data describes These two possible definitions may contradict each other.

Data Quality - What, Why, How, 10 Best Practices & More

Awareness of data and information quality issues has grown rapidly in light of the

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critical role played by the quality of information in our data-intensive, knowledge-based economy. Research in the past two decades has produced a large body of data quality knowledge and has expanded our ability to solve many data and information quality problems.

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Overview and Framework for Data and
Information Quality ...

Within literature data and information
quality dimensions are described
extensively. However, authors refer to the
quality dimensions in different ways.
Wang and Strong (1996) refer to data
quality dimensions, as “ a set of data

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quality attributes that represent a single aspect or construct of data quality ” (p. 6).

INFORMATION QUALITY:
DEFINITIONS, MEASUREMENT,
DIMENSIONS ...

Its mission is to publish high impact articles contributing to the field of data

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and information quality (IQ). IQ covers a wide range of dimensions including accuracy and completeness, provenance, lineage and trust, understandability and accessibility. Research contributions can range from modeling and measurement of quality, to improvement of ...

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This book provides a systematic and comparative description of the vast number of research issues related to the quality of data and information. It does so by delivering a sound, integrated and comprehensive overview of the state of the

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art and future development of data and information quality in databases and information systems. To this end, it presents an extensive description of the techniques that constitute the core of data and information quality research, including record linkage (also called object identification), data integration, error

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localization and correction, and examines the related techniques in a comprehensive and original methodological framework. Quality dimension definitions and adopted models are also analyzed in detail, and differences between the proposed solutions are highlighted and discussed. Furthermore, while systematically

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describing data and information quality as an autonomous research area, paradigms and influences deriving from other areas, such as probability theory, statistical data analysis, data mining, knowledge representation, and machine learning are also included. Last not least, the book also highlights very practical solutions, such as

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methodologies, benchmarks for the most effective techniques, case studies, and examples. The book has been written primarily for researchers in the fields of databases and information management or in natural sciences who are interested in investigating properties of data and information that have an impact on the

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quality of experiments, processes and on real life. The material presented is also sufficiently self-contained for masters or PhD-level courses, and it covers all the fundamentals and topics without the need for other textbooks. Data and information system administrators and practitioners, who deal with systems exposed to data-

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quality issues and as a result need a systematization of the field and practical methods in the area, will also benefit from the combination of concrete practical approaches with sound theoretical formalisms.

Provides an important framework for data

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analysts in assessing the quality of data and its potential to provide meaningful insights through analysis Analytics and statistical analysis have become pervasive topics, mainly due to the growing availability of data and analytic tools. Technology, however, fails to deliver insights with added value if the quality of the

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information it generates is not assured. Information Quality (InfoQ) is a tool developed by the authors to assess the potential of a dataset to achieve a goal of interest, using data analysis. Whether the information quality of a dataset is sufficient is of practical importance at many stages of the data analytics journey, from the pre-

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data collection stage to the post-data collection and post-analysis stages. It is also critical to various stakeholders: data collection agencies, analysts, data scientists, and management. This book: Explains how to integrate the notions of goal, data, analysis and utility that are the main building blocks of data analysis

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within any domain. Presents a framework for integrating domain knowledge with data analysis. Provides a combination of both methodological and practical aspects of data analysis. Discusses issues surrounding the implementation and integration of InfoQ in both academic programmes and business / industrial

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projects. Showcases numerous case studies in a variety of application areas such as education, healthcare, official statistics, risk management and marketing surveys. Presents a review of software tools from the InfoQ perspective along with example datasets on an accompanying website. This book will be beneficial for researchers

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in academia and in industry, analysts, consultants, and agencies that collect and analyse data as well as undergraduate and postgraduate courses involving data analysis.

This work fulfills the need for a conceptual and technical framework to improve

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understanding of Information Quality (IQ) and Information Quality standards. The meaning and practical implementation of IQ are addressed, as it is relevant to any field where there is a need to handle data and issues such as accessibility, accuracy, completeness, currency, integrity, reliability, timeliness, usability, the role of

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metrics and so forth are all a part of Information Quality. In order to support the cross-fertilization of theory and practice, the latest research is presented in this book. The perspectives of experts from beyond the origins of IQ in computer science are included: library and information science practitioners and

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academics, philosophers of information, of engineering and technology, and of science are all contributors to this volume. The chapters in this volume are based on the work of a collaborative research project involving the Arts and Humanities Research Council and Google and led by Professor Luciano Floridi, University of

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Oxford. This work will be of interest to anyone handling data, including those from commercial, public, governmental and academic organizations. The expert editors' contributions introduce issues of interest to scientists, database curators and philosophers, even though the issues may be disguised in the language and examples

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common to a different discipline.

This book provides a systematic and comparative description of the vast number of research issues related to the quality of data and information. It does so by delivering a sound, integrated and comprehensive overview of the state of the

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art and future development of data and information quality in databases and information systems. To this end, it presents an extensive description of the techniques that constitute the core of data and information quality research, including record linkage (also called object identification), data integration, error

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quality of experiments, processes and on real life. The material presented is also sufficiently self-contained for masters or PhD-level courses, and it covers all the fundamentals and topics without the need for other textbooks. Data and information system administrators and practitioners, who deal with systems exposed to data-

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quality issues and as a result need a systematization of the field and practical methods in the area, will also benefit from the combination of concrete practical approaches with sound theoretical formalisms.

Poor data quality can seriously hinder or

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damage the efficiency and effectiveness of organizations and businesses. The growing awareness of such repercussions has led to major public initiatives like the "Data Quality Act" in the USA and the "European 2003/98" directive of the European Parliament. Batini and Scannapieco present a comprehensive and

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systematic introduction to the wide set of issues related to data quality. They start with a detailed description of different data quality dimensions, like accuracy, completeness, and consistency, and their importance in different types of data, like federated data, web data, or time-dependent data, and in different data

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categories classified according to frequency of change, like stable, long-term, and frequently changing data. The book's extensive description of techniques and methodologies from core data quality research as well as from related fields like data mining, probability theory, statistical data analysis, and machine learning gives

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an excellent overview of the current state of the art. The presentation is completed by a short description and critical comparison of tools and practical methodologies, which will help readers to resolve their own quality problems. This book is an ideal combination of the soundness of theoretical foundations and

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the applicability of practical approaches. It is ideally suited for everyone – researchers, students, or professionals – interested in a comprehensive overview of data quality issues. In addition, it will serve as the basis for an introductory course or for self-study on this topic.

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The Practitioner's Guide to Data Quality Improvement offers a comprehensive look at data quality for business and IT, encompassing people, process, and technology. It shares the fundamentals for understanding the impacts of poor data quality, and guides practitioners and managers alike in socializing, gaining

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sponsorship for, planning, and establishing a data quality program. It demonstrates how to institute and run a data quality program, from first thoughts and justifications to maintenance and ongoing metrics. It includes an in-depth look at the use of data quality tools, including business case templates, and tools for analysis,

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reporting, and strategic planning. This book is recommended for data management practitioners, including database analysts, information analysts, data administrators, data architects, enterprise architects, data warehouse engineers, and systems analysts, and their managers. Offers a comprehensive look at

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data quality for business and IT, encompassing people, process, and technology. Shows how to institute and run a data quality program, from first thoughts and justifications to maintenance and ongoing metrics. Includes an in-depth look at the use of data quality tools, including business case templates, and

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tools for analysis, reporting, and strategic planning.

Entity Resolution and Information Quality presents topics and definitions, and clarifies confusing terminologies regarding entity resolution and information quality. It takes a very wide view of IQ, including

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its six-domain framework and the skills formed by the International Association for Information and Data Quality (IAIDQ). The book includes chapters that cover the principles of entity resolution and the principles of Information Quality, in addition to their concepts and terminology. It also discusses the Fellegi-

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Sunter theory of record linkage, the Stanford Entity Resolution Framework, and the Algebraic Model for Entity Resolution, which are the major theoretical models that support Entity Resolution. In relation to this, the book briefly discusses entity-based data integration (EBDI) and its model, which

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serve as an extension of the Algebraic Model for Entity Resolution. There is also an explanation of how the three commercial ER systems operate and a description of the non-commercial open-source system known as OYSTER. The book concludes by discussing trends in entity resolution research and practice.

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Students taking IT courses and IT professionals will find this book invaluable. First authoritative reference explaining entity resolution and how to use it effectively Provides practical system design advice to help you get a competitive advantage Includes a companion site with synthetic customer data for applicatory

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exercises, and access to a Java-based Entity Resolution program.

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

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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

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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

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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

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

How to apply data quality management
techniques to marketing, sales, and other
specific business units Author and
information quality management expert

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Larry English returns with a sequel to his much-acclaimed book, *Improving Data Warehouse and Business Information Quality*. In this new book he takes a hands-on approach, showing how to apply the concepts outlined in the first book to specific business areas like marketing, sales, finance, and human resources. The

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book presents real-world scenarios so you can see how to meld data quality concepts to specific business areas such as supply chain management, product and service development, customer care, and others. Step-by-step instruction, practical techniques, and helpful templates from the author help you immediately apply best

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practices and start modeling your own quality initiatives. Maintaining the quality and accuracy of business data is crucial; database managers are in need of specific guidance for data quality management in all key business areas Information Quality Applied offers IT, database, and business managers step-by-step instruction in

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setting up methodical and effective procedures The book provides specifics if you have to manage data quality in marketing, sales, customer care, supply chain management, product and service management, human resources, or finance The author includes templates that readers can put to immediate use for modeling

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their own quality initiatives A Companion
Web site provides templates, updates to
the book, and links to related sites

Executing Data Quality Projects, Second
Edition presents a structured yet flexible
approach for creating, improving,
sustaining and managing the quality of

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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!

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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

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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

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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,

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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

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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,

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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

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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,

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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

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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

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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

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