

# Entity Resolution and Information Quality

John R. Talburt



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## **Entity Resolution And Information Quality:**

**Entity Resolution and Information Quality** John R. Talburt, 2011-01-14 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 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 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 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. 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 exercises and access to a Java-based Entity Resolution program. *Entity*

*Information Life Cycle for Big Data* John R. Talburt, Yinle Zhou, 2015-04-20 Entity Information Life Cycle for Big Data walks you through the ins and outs of managing entity information so you can successfully achieve master data management (MDM) in the era of big data. This book explains big data's impact on MDM and the critical role of entity information management system (EIMS) in successful MDM. Expert authors Dr. John R. Talburt and Dr. Yinle Zhou provide a thorough background in the principles of managing the entity information life cycle and provide practical tips and techniques for implementing an EIMS. Strategies for exploiting distributed processing to handle big data for EIMS and examples from real applications. Additional material on the theory of EIMS and methods for assessing and evaluating EIMS performance also make this book appropriate for use as a textbook in courses on entity and identity management, data management, customer relationship management (CRM) and related topics. Explains the business value and impact of entity information management system (EIMS) and directly addresses the problem of EIMS design and operation, a critical issue organizations face when implementing MDM systems. Offers practical guidance to help you design and build an EIM system that will successfully handle big data. Details how to measure and evaluate entity integrity in MDM systems and explains the principles and processes that comprise EIM. Provides an understanding of features and functions an EIM system should have that will assist in evaluating commercial EIM systems. Includes chapter review questions, exercises, tips, and free downloads of demonstrations that use the OYSTER open source EIM system. Executable code, Java jar files, control scripts, and synthetic input data illustrate various aspects of the CRUD life cycle such as identity capture, identity update, and assertions. *Innovative Techniques and Applications of Entity Resolution*

Wang, Hongzhi, 2014-02-28 Entity resolution is an essential tool in processing and analyzing data in order to draw precise conclusions from the information being presented Further research in entity resolution is necessary to help promote information quality and improved data reporting in multidisciplinary fields requiring accurate data representation Innovative Techniques and Applications of Entity Resolution draws upon interdisciplinary research on tools techniques and applications of entity resolution This research work provides a detailed analysis of entity resolution applied to various types of data as well as appropriate techniques and applications and is appropriately designed for students researchers information professionals and system developers

**Improving Usability, Safety and Patient Outcomes with Health Information Technology** John A. Bartle-Clar, Gerry Bliss, Elizabeth M. Borycki, Karen L. Courtney, Alex Mu-Hsing Kuo, Andre Kushniruk, 2019-03-15 Information technology is revolutionizing healthcare and the uptake of health information technologies is rising but scientific research and industrial and governmental support will be needed if these technologies are to be implemented effectively to build capacity at regional national and global levels This book Improving Usability Safety and Patient Outcomes with Health Information Technology presents papers from the Information Technology and Communications in Health conference ITCH 2019 held in Victoria Canada from 14 to 17 February 2019 The conference takes a multi perspective view of what is needed to move technology forward to sustained and widespread use by transitioning research findings and approaches into practice Topics range from improvements in usability and training and the need for new and improved designs for information systems user interfaces and interoperable solutions to governmental policy mandates initiatives and the need for regulation The knowledge and insights gained from the ITCH 2019 conference will surely stimulate fruitful discussions and collaboration to bridge research and practice and improve usability safety and patient outcomes and the book will be of interest to all those associated with the development implementation and delivery of health IT solutions

*Handbook of Research on Big Data Storage and Visualization Techniques* Segall, Richard S., Cook, Jeffrey S., 2018-01-05 The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries Challenges associated with the analysis security sharing storage and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data The Handbook of Research on Big Data Storage and Visualization Techniques is a critical scholarly resource that explores big data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields Featuring coverage on a broad range of topics such as architecture patterns programming systems and computational energy this publication is geared towards professionals researchers and students seeking current research and application topics on the subject

*Analytic Methods in Systems and Software Testing* Ron S. Kenett, Fabrizio Ruggeri, Frederick W. Faltin, 2018-09-04 A comprehensive treatment of systems and software testing using state of the art methods and tools This

book provides valuable insights into state of the art software testing methods and explains with examples the statistical and analytic methods used in this field Numerous examples are used to provide understanding in applying these methods to real world problems Leading authorities in applied statistics computer science and software engineering present state of the art methods addressing challenges faced by practitioners and researchers involved in system and software testing Methods include machine learning Bayesian methods graphical models experimental design generalized regression and reliability modeling Analytic Methods in Systems and Software Testing presents its comprehensive collection of methods in four parts Part I Testing Concepts and Methods Part II Statistical Models Part III Testing Infrastructures and Part IV Testing Applications It seeks to maintain a focus on analytic methods while at the same time offering a contextual landscape of modern engineering in order to introduce related statistical and probabilistic models used in this domain This makes the book an incredibly useful tool offering interesting insights on challenges in the field for researchers and practitioners alike Compiles cutting edge methods and examples of analytical approaches to systems and software testing from leading authorities in applied statistics computer science and software engineering Combines methods and examples focused on the analytic aspects of systems and software testing Covers logistic regression machine learning Bayesian methods graphical models experimental design generalized regression and reliability models Written by leading researchers and practitioners in the field from diverse backgrounds including research business government and consulting Stimulates research at the theoretical and practical level Analytic Methods in Systems and Software Testing is an excellent advanced reference directed toward industrial and academic readers whose work in systems and software development approaches or surpasses existing frontiers of testing and validation procedures It will also be valuable to post graduate students in computer science and mathematics

**Data Governance and Compliance** Rupa Mahanti, 2021-04-27 This book sets the stage of the evolution of corporate governance laws and regulations other forms of governance and the interaction between data governance and other corporate governance sub disciplines Given the continuously evolving and complex regulatory landscape and the growing number of laws and regulations compliance is a widely discussed issue in the field of data This book considers the cost of non compliance bringing in examples from different industries of instances in which companies failed to comply with rules regulations and other legal obligations and goes on to explain how data governance helps in avoiding such pitfalls The first in a three volume series on data governance this book does not assume any prior or specialist knowledge in data governance and will be highly beneficial for IT management and law students academics information management and business professionals and researchers to enhance their knowledge and get guidance in managing their own data governance projects from a governance and compliance perspective

Database Systems for Advanced Applications Matthias Renz, Cyrus Shahabi, Xiaofang Zhou, Muhammad Aamir Cheema, 2015-04-08 This two volume set LNCS 9049 and LNCS 9050 constitutes the refereed proceedings of the 20th International Conference on Database Systems for Advanced Applications

DASFAA 2015 held in Hanoi Vietnam in April 2015 The 63 full papers presented were carefully reviewed and selected from a total of 287 submissions The papers cover the following topics data mining data streams and time series database storage and index spatio temporal data modern computing platform social networks information integration and data quality information retrieval and summarization security and privacy outlier and imbalanced data analysis probabilistic and uncertain data query processing

**Data Warehousing and Mining: Concepts, Methodologies, Tools, and Applications** Wang, John, 2008-05-31 In recent years the science of managing and analyzing large datasets has emerged as a critical area of research In the race to answer vital questions and make knowledgeable decisions impressive amounts of data are now being generated at a rapid pace increasing the opportunities and challenges associated with the ability to effectively analyze this data

**Special Issue on Entity Resolution** John R. Talburt, 2013 *ITNG 2024: 21st International Conference on Information Technology-New Generations* Shahram Latifi, 2024-07-08 This volume represents the 21st International Conference on Information Technology New Generations ITNG 2024 ITNG is an annual event focusing on state of the art technologies pertaining to digital information and communications The applications of advanced information technology to such domains as astronomy biology education geosciences security and health care are the among topics of relevance to ITNG Visionary ideas theoretical and experimental results as well as prototypes designs and tools that help the information readily flow to the user are of special interest Machine Learning Robotics High Performance Computing and Innovative Methods of Computing are examples of related topics The conference features keynote speakers a best student award poster award service award a technical open panel and workshops exhibits from industry government and academia This publication is unique as it captures modern trends in IT with a balance of theoretical and experimental work Most other work focus either on theoretical or experimental but not both Accordingly we do not know of any competitive literature

Entity Resolution in the Web of Data Vassilis Christophides, Vasilis Efthymiou, Kostas Stefanidis, 2015-08-01 In recent years several knowledge bases have been built to enable large scale knowledge sharing but also an entity centric Web search mixing both structured data and text querying These knowledge bases offer machine readable descriptions of real world entities e g persons places published on the Web as Linked Data However due to the different information extraction tools and curation policies employed by knowledge bases multiple complementary and sometimes conflicting descriptions of the same real world entities may be provided Entity resolution aims to identify different descriptions that refer to the same entity appearing either within or across knowledge bases The objective of this book is to present the new entity resolution challenges stemming from the openness of the Web of data in describing entities by an unbounded number of knowledge bases the semantic and structural diversity of the descriptions provided across domains even for the same real world entities as well as the autonomy of knowledge bases in terms of adopted processes for creating and curating entity descriptions The scale diversity and graph structuring of entity descriptions in the Web of data essentially challenge how two descriptions can

be effectively compared for similarity but also how resolution algorithms can efficiently avoid examining pairwise all descriptions The book covers a wide spectrum of entity resolution issues at the Web scale including basic concepts and data structures main resolution tasks and workflows as well as state of the art algorithmic techniques and experimental trade offs

*Proceedings of ... ACM/IEEE-CS Joint Conference on Digital Libraries ,2007*      **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      Data Warehousing and Mining ,2008 This collection offers tools designs and outcomes of the utilization of data mining and warehousing technologies such as algorithms concept lattices multidimensional data and online analytical processing With more than 300 chapters contributed by over 575 experts from around the globe this authoritative collection will provide libraries with the essential reference on data mining and warehousing Provided by publisher      **High Quality Entity Resolution with Adaptive Similarity Functions** Rabia Turan,2011 Real world datasets often contain missing erroneous and duplicate data If such problems with dataset are not corrected the analysis results on it might lead to wrong decisions Due to practical significance of the data quality problem many creative techniques have been proposed in the past to address such problems In this thesis we address one such data cleaning challenge called entity resolution that deals with ambiguous

references in data and whose task is to identify all references that co refer In this thesis we exploit additional information sources to improve the disambiguation quality and overcome the limitations of feature based approaches Implicit relationships between entities is one such information source We exploit relationship analysis The approach we utilize views data as an entity relationship graph and rely on measuring the connection strength CS among various entities in the graph by using a connection strength model We propose a new adaptive similarity function that improves the quality of these approaches by adaptively learning the CS measure using the available training data Another information source is the web We propose an approach that utilizes web querying to measure the correlation information between entities We also develop a classifier that converts the web based correlation statistics into co refer or do not co refer decisions The classifier is based on skylines and leverages the fact that the classification results are utilized in clustering Our extensive experiments show that the proposed techniques have significant improvement over the state of the art approaches Entity resolution solutions often produce results consisting of objects whose attributes may contain uncertainty This uncertainty is frequently captured in the form of a set of multiple mutually exclusive value choices for each uncertain attribute along with a measure of probability for alternative values However the applications built on top of such data requires deterministic answers Thus we propose a linear time algorithm that finds a deterministic answer set which maximizes the expected  $F_{\alpha}$  measure of selection queries on top of such a probabilistic representation The proposed solution gets near optimal results

*Information Quality and Governance for Business Intelligence* Yeoh, William, Talburt, John R., Zhou, Yinle, 2013-12-31 Business intelligence initiatives have been dominating the technology priority list of many organizations However the lack of effective information quality and governance strategies and policies has been meeting these initiatives with some challenges Information Quality and Governance for Business Intelligence presents the latest exchange of academic research on all aspects of practicing and managing information using a multidisciplinary approach that examines its quality for organizational growth This book is an essential reference tool for researchers practitioners and university students specializing in business intelligence information quality and information systems

**Open Distributed Processing** Jan de Meer, Volker Heymer, Rudolf Roth, 1992 Open Distributed Processing is a central field in the standardization activities of ISO and CCITT This volume presents important cornerstones related to ODP an introduction to the ISO Basic Reference Model providing the framework for future standards in the area of ODP the architectural implications of ODP the methods and techniques to model information needs in enterprises a report on the CCITT studies on Intelligent Networks for new telecommunication services a report on the Telecommunication Information Networking Architecture Initiative for the synergy between computing and telecommunication and the fundamental concepts for object oriented design based on formal descriptions

Markup Languages ,2001      *33rd International Conference on Very Large Data Bases* ,2007



The Top Books of the Year Entity Resolution And Information Quality The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have charmed audiences this year. Entity Resolution And Information Quality : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Entity Resolution And Information Quality : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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## **Entity Resolution And Information Quality Introduction**

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