

Felix Naumann · Melanie Herschel

# An Introduction to Duplicate Detection

# An Introduction To Duplicate Detection An Introduction To Duplicate Detection

**Jianliang Xu, Ge Yu, Shuigeng  
Zhou, Rainer Unland**



## **An Introduction To Duplicate Detection An Introduction To Duplicate Detection:**

An Introduction to Duplicate Detection Felix Nauman, Melanie Herschel, 2022-06-01 With the ever increasing volume of data data quality problems abound Multiple yet different representations of the same real world objects in data duplicates are one of the most intriguing data quality problems The effects of such duplicates are detrimental for instance bank customers can obtain duplicate identities inventory levels are monitored incorrectly catalogs are mailed multiple times to the same household etc Automatically detecting duplicates is difficult First duplicate representations are usually not identical but slightly differ in their values Second in principle all pairs of records should be compared which is infeasible for large volumes of data This lecture examines closely the two main components to overcome these difficulties i Similarity measures are used to automatically identify duplicates when comparing two records Well chosen similarity measures improve the effectiveness of duplicate detection ii Algorithms are developed to perform on very large volumes of data in search for duplicates Well designed algorithms improve the efficiency of duplicate detection Finally we discuss methods to evaluate the success of duplicate detection Table of Contents Data Cleansing Introduction and Motivation Problem Definition Similarity Functions Duplicate Detection Algorithms Evaluating Detection Success Conclusion and Outlook Bibliography **Advanced Concepts**

**for Intelligent Vision Systems** Jacques Blanc-Talon, David Helbert, Wilfried Philips, Dan Popescu, Paul Scheunders, 2018-09-24 This book constitutes the refereed proceedings of the 19th International Conference on Advanced Concepts for Intelligent Vision Systems ACIVS 2018 held in Poitiers France in September 2018 The 52 full papers presented in this volume were carefully reviewed and selected from 91 submissions They were organized in topical sections named video analysis segmentation and classification remote sensing biometrics deep learning coding and compression and image restoration and reconstruction Scalable Uncertainty Management Eyke Hüllermeier, Sebastian Link, Thomas

Fober, Bernhard Seeger, 2012-09-11 This book constitutes the refereed proceedings of the 6th International Conference on Scalable Uncertainty Management SUM 2012 held in Marburg Germany in September 2012 The 41 revised full papers and 13 revised short papers were carefully reviewed and selected from 75 submissions The papers cover topics in all areas of managing and reasoning with substantial and complex kinds of uncertain incomplete or inconsistent information including applications in decision support systems machine learning negotiation technologies semantic web applications search engines ontology systems information retrieval natural language processing information extraction image recognition vision systems data and text mining and the consideration of issues such as provenance trust heterogeneity and complexity of data and knowledge **HPI Future SOC Lab : proceedings 2011** Meinel, Christoph, Polze, Andreas, Oswald,

Gerhard, Strotmann, Rolf, Seibold, Ulrich, D'Errico, Doc, 2013 Together with industrial partners Hasso Plattner Institut HPI is currently establishing a HPI Future SOC Lab which will provide a complete infrastructure for research on on demand systems The lab utilizes the latest multi many core hardware and its practical implementation and testing as well as further

development The necessary components for such a highly ambitious project are provided by renowned companies Fujitsu and Hewlett Packard provide their latest 4 and 8 way servers with 1 2 TB RAM SAP will make available its latest Business byDesign ByD system in its most complete version EMC provides high performance storage systems and VMware offers virtualization solutions The lab will operate on the basis of real data from large enterprises The HPI Future SOC Lab which will be open for use by interested researchers also from other universities will provide an opportunity to study real life complex systems and follow new ideas all the way to their practical implementation and testing This technical report presents results of research projects executed in 2011 Selected projects have presented their results on June 15th and October 26th 2011 at the Future SOC Lab Day events

**Soft Computing in XML Data Management** Zongmin Ma, Li Yan, 2010-07-07 This book covers in a great depth the fast growing topic of techniques tools and applications of soft computing in XML data management It is shown how XML data management like model query integration can be covered with a soft computing focus This book aims to provide a single account of current studies in soft computing approaches to XML data management The objective of the book is to provide the state of the art information to researchers practitioners and graduate students of the Web intelligence and at the same time serving the information technology professional faced with non traditional applications that make the application of conventional approaches difficult or impossible

Transdisciplinary Engineering Methods for Social Innovation of Industry 4.0 M. Peruzzini, M. Pellicciari, C. Bil, 2018-09-14 The concept of concurrent engineering CE was first developed in the 1980s Now often referred to as transdisciplinary engineering it is based on the idea that different phases of a product life cycle should be conducted concurrently and initiated as early as possible within the Product Creation Process PCP The main goal of CE is to increase the efficiency and effectiveness of the PCP and reduce errors in later phases as well as incorporating considerations including environmental implications for the full lifecycle of the product It has become a substantive methodology in many industries and has also been adopted in the development of new services and service support This book presents the proceedings of the 25th ISPE Inc International Conference on Transdisciplinary Engineering held in Modena Italy in July 2018 This international conference attracts researchers industry experts students and government representatives interested in recent transdisciplinary engineering research advancements and applications The book contains 120 peer reviewed papers selected from 259 submissions from all continents of the world ranging from the theoretical and conceptual to papers addressing industrial best practice and is divided into 11 sections reflecting the themes addressed in the conference program and addressing topics as diverse as industry 4 0 and smart manufacturing human centered design modeling simulation and virtual design and knowledge and data management among others With an overview of the latest research results product creation processes and related methodologies this book will be of interest to researchers design practitioners and educators alike

**Database Systems for Advanced Applications** Jianliang Xu, Ge Yu, Shuigeng Zhou, Rainer Unland, 2011-04-06 This

book constitutes the workshop proceedings of the 16th International Conference on Database Systems for Advanced Applications DASFAA 2011 held in Hong Kong China in April 2011 The volume contains six workshops each focusing on specific research issues that contribute to the main themes of the DASFAA conference The First International Workshop on Graph structured Data Bases GDB 2011 the First International Workshop on Spatial Information Modeling Management and Mining SIM3 2011 the International Workshop on Flash based Database Systems FlashDB 2011 the Second International Workshop on Social Networks and Social Media Mining on the Web SNSMW 2011 the First International Workshop on Data Management for Emerging Network Infrastructures DaMEN 2011 and the Fourth International Workshop on Data Quality in Integration Systems DQIS 2011      *Database Systems for Advanced Applications* Hiroyuki Kitagawa, Yoshiharu Ishikawa, Wenjie Li, Chiemi Watanabe, 2010-03-18 This two volume set LNCS 5981 and LNCS 5982 constitutes the refereed proceedings of the 15th International Conference on Database Systems for Advanced Applications DASFAA 2010 held in Tsukuba Japan in April 2010 The 39 revised full papers and 16 revised short papers presented together with 3 invited keynote papers 22 demonstration papers 6 industrial papers and 2 keynote talks were carefully reviewed and selected from 285 submissions The papers of the first volume are organized in topical sections on P2P based technologies data mining technologies XML search and matching graphs spatialdatabases XML technologies time series and streams advanced data mining query processing Web sensor networks and communications information management as well as communities and Web graphs The second volume contains contributions related to trajectories and moving objects skyline queries privacy and security data streams similarity search and event processing storage and advanced topics industrial demo papers and tutorials and panels      **Proceedings of the Twenty-second AAAI Conference on Artificial Intelligence** ,2007

**Adaptive Windows for Duplicate Detection** Uwe Draisbach, Felix Naumann, Sascha Szott, Oliver Wonneberg, 2012 Duplicate detection is the task of identifying all groups of records within a data set that represent the same real world entity respectively This task is difficult because i representations might differ slightly so some similarity measure must be defined to compare pairs of records and ii data sets might have a high volume making a pair wise comparison of all records infeasible To tackle the second problem many algorithms have been suggested that partition the data set and compare all record pairs only within each partition One well known such approach is the Sorted Neighborhood Method SNM which sorts the data according to some key and then advances a window over the data comparing only records that appear within the same window We propose several variations of SNM that have in common a varying window size and advancement The general intuition of such adaptive windows is that there might be regions of high similarity suggesting a larger window size and regions of lower similarity suggesting a smaller window size We propose and thoroughly evaluate several adaption strategies some of which are provably better than the original SNM in terms of efficiency same results with fewer comparisons

Document Recognition ,1998      **Proceedings, ACM Multimedia ...** ,2002      KDD ... ,2005      *Proceedings American*

Association for Artificial Intelligence, 2006      *Proceedings of the 2001 ACM CIKM* Henrique Paques, Ling Liu, David A. Grossman, 2001      *Proceedings of the ... ACM CIKM*, 2003      *Electronic Information Delivery* Reva Basch, 1995 This book draws on the experience of a group of people each with working knowledge of a particular sector of the electronic information industry who are convinced that information quality management is an ongoing and essential function They present a variety of perspectives on quality issues as they apply to the production dissemination and use of electronic information products The emphasis throughout is on practical applications observations and interpretations drawn from experience Above all *Electronic Information Delivery* ensuring quality and value presents a framework for the reader to judge database performance This is backed up by each writer's repeated application of categories such as consistency coverage and scope timeliness accuracy error rate accessibility ease of use integration output documentation customer support and training and value to cost ratio to the topic in hand      **Data Warehousing and Knowledge Discovery**, 2005

**Proceedings of the Third International Conference on Web Information Systems Engineering** Tok Wang Ling, 2002 Containing 35 papers from the December 2002 conference including the keynote addresses this volume addresses such topics of information systems engineering as web caching web mining information retrieval transactions and rules web queries and clustering metadata and ontologies XML query proc      **Database and Expert Systems Applications** Vladimír Mařík, Jiří Lažanský, Roland R. Wagner, 1993 This volume constitutes the proceedings of the 4th International Conference on Database and Expert Systems Applications DEXA held in Prague Czech Republic in September 1993 Traditionally the objective of the DEXA conferences is to serve as an international forum for the discussion and exchange of research results and practical experience among theoreticians and professionals working in the field of database and artificial intelligence technologies Despite the fact that in the conference title the applications aspect is mentioned explicitly the theoretical and the practical points of view in the field are well balanced in the program of DEXA 93 The growing importance of the conference series is outlined by the remarkably high number of 269 submissions and by the support given by renown organizations DEXA 93 is held for the first time outside the former GDR in an East European country and is essentially contributing to the advancement of the East West scientific cooperation in the field of database and AI systems This proceedings contains the 78 contributed papers carefully selected by an international program committee with the support of a high number of subreferees The volume is organized in sections on data models distributed databases advanced database aspects database optimization and performance evaluation spatial and geographic databases expert systems and knowledge engineering legal systems other database and artificial intelligence applications software engineering and hypertext hypermedia and user interfaces PUBLISHER'S WEBSITE

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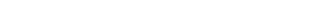
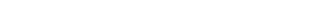
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