

Felix Naumann · Melanie Herschel

An Introduction to Duplicate Detection

An Introduction To Duplicate Detection An Introduction To Duplicate Detection

Dipankar Bhattacharya



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An Introduction to Duplicate Detection Feliz Nauman, Melanie Herschel, 2010-05-05 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 **Web-Age**

Information Management Haixun Wang, Shijun Li, Satoshi Oyama, Xiaohua Hu, Tiejun Qian, 2011-08-26 This book constitutes the refereed proceedings of the 12th International Conference on Web Age Information Management WAIM 2011 held in Wuhan China in September 2011 The 53 revised full papers presented together with two abstracts and one full paper of the keynote talks were carefully reviewed and selected from a total of 181 submissions The papers are organized in topical sections on query processing uncertain data social media semantics data mining cloud data multimedia data user models data management graph data name disambiguation performance temporal data XML spatial data and event detection

Database and Expert Systems Applications Hendrik Decker, Lenka Lhotská, Sebastian Link, Marcus Spies, Roland R. Wagner, 2014-08-20 This two volume set LNCS 8644 and LNCS 8645 constitutes the refereed proceedings of the 25th International Conference on Database and Expert Systems Applications DEXA 2014 held in Munich Germany September 1 4 2014 The 37 revised full papers presented together with 46 short papers and 2 keynote talks were carefully reviewed and selected from 159 submissions The papers discuss a range of topics including data quality social web XML keyword search skyline queries graph algorithms information retrieval XML security semantic web classification and clustering queries social computing similarity search ranking data mining big data approximations privacy data exchange data integration web semantics repositories partitioning and business applications **Multimedia Communications, Services and Security** Andrzej Dziech, Mikołaj Leszczuk, Remigiusz Baran, 2015-12-01 This volume constitutes the refereed proceedings of the 8th International Conference on Multimedia Communications Services and Security MCSS 2015 held in Krakow Poland in November 2015 The 16 full papers included in the volume were selected from 39 submissions The papers cover ongoing

research activities in the following topics multimedia services intelligent monitoring audio visual systems biometric applications experiments and deployments

Advanced Web Technologies and Applications Jeffrey Xu Yu, Xuemin Lin, Hongjun Lu, Yanchun Zhang, 2004-04-05 The Asia Pacific region has emerged in recent years as one of the fastest growing regions in the world in the use of Web technologies as well as in making significant contributions to WWW research and development Since the first Asia Pacific Web conference in 1998 APWeb has continued to provide a forum for researchers professionals and industrial practitioners from around the world to share their rapidly evolving knowledge and to report new advances in WWW technologies and applications APWeb 2004 received an overwhelming 386 full paper submissions including 375 research papers and 11 industrial papers from 20 countries and regions Australia Canada China France Germany Greece HongKong India Iran Japan Korea Norway Singapore Spain Switzerland Taiwan Turkey UK USA and Vietnam Each submission was carefully reviewed by three members of the program committee Among the 386 submitted papers 60 regular papers 24 short papers 15 poster papers and 3 industrial papers were selected to be included in the proceedings The selected papers cover a wide range of topics including Web services Web intelligence Web personalization Web query processing Web caching Web mining text mining data mining and knowledge discovery XML database and query processing workflow management E-commerce data rehousing P2P systems and applications Grid computing and networking The paper entitled Towards Adaptive Probabilistic Search in Unstructured P2P stems co-authored by Linhao Xu Chenyun Dai Wenyan Cai Shuigeng Zhou and Aoying Zhou was awarded the best APWeb 2004 student paper

On the Move to Meaningful Internet Systems: OTM 2015 Conferences Christophe Debruyne, Hervé Panetto, Robert Meersman, Tharam Dillon, Georg Weichhart, Yuan An, Claudio Agostino Ardagna, 2015-10-29 This volume constitutes the refereed proceedings of the Confederated International Conferences Cooperative Information Systems CoopIS 2015 Ontologies Databases and Applications of Semantics ODBASE 2015 and Cloud and Trusted Computing C TC held as part of OTM 2015 in October 2015 in Rhodes Greece The 30 full papers presented together with 15 short papers were carefully reviewed and selected from 144 initial submissions The OTM program every year covers data and Web semantics distributed objects Web services databases information systems enterprise workflow and collaboration ubiquity interoperability mobility grid and high performance computing

Digital Libraries and Multimedia Archives Giuseppe Serra, Carlo Tasso, 2018-01-11 This book constitutes the thoroughly refereed proceedings of the 14th Italian Research Conference on Digital Libraries IRCDL 2018 held in Udine Italy in January 2018 The 14 full papers and 11 short papers presented were carefully selected from 30 submissions The papers are organized in topical sections on digital library architecture multimedia content analysis models and applications

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instructors are increasingly recognising the immense opportunities in applying secondary research methods in built environment research Advances in technology has also led to vast amounts of existing datasets that can be utilized for secondary research This textbook provides a systematic guide on how to apply secondary research methods in the built environment including their various underpinning methodologies It provides guidance on the secondary research process benefits and drawbacks of applying secondary research methods how to source for secondary data ethical considerations and the various secondary research methods that can be applied in built environment research The book incorporates chapters dealing with qualitative secondary analysis systematic literature reviews legal analysis bibliometric and scientometric analysis literature based discovery and meta analysis Secondary Research Methods in the Built Environment is an ideal research book for undergraduate and postgraduate students in construction management construction project management quantity surveying construction law and dispute resolution real estate and property management building services engineering architecture and civil engineering

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Advances in Data and Web Management Guozhu Dong,Xuemin Lin,Wei Wang,Yun Yang,Jeffrey Xu Yu,2007-06-26 This book constitutes the refereed proceedings of the joint 9th Asia Pacific Web Conference APWeb 2007 and the 8th International Conference on Web Age Information Management WAIM 2007 held in Huang Shan China June 2007 Coverage includes data mining and knowledge discovery P2P systems sensor networks spatial and temporal databases Web mining XML and semi structured data privacy and security as well as data mining and data streams

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