Privacy Preserving Data Mining scheme using random perturbation

- Basic idea

- Reconstruction procedure

- Decision-Tree classification

- Three different algorithms

Privacy Preserving Data Mining

Ramamohanarao Kotagiri,P. Radha Krishna,Mukesh Mohania,Ekawit Nantajeewarawat

Privacy Preserving Data Mining:

Privacy Preserving Data Mining Jaideep Vaidya,Christopher W. Clifton,Yu Michael Zhu,2006-09-28 Data mining has emerged as a significant technology for gaining knowledge from vast quantities of data However concerns are growing that use of this technology can violate individual privacy These concerns have led to a backlash against the technology for example a Data Mining Moratorium Act introduced in the U S Senate that would have banned all data mining programs including research and development by the U S Department of Defense Privacy Preserving Data Mining provides a comprehensive overview of available approaches techniques and open problems in privacy preserving data mining This book demonstrates how these approaches can achieve data mining while operating within legal and commercial restrictions that forbid release of data Furthermore this research crystallizes much of the underlying foundation and inspires further research in the area Privacy Preserving Data Mining is designed for a professional audience composed of practitioners and researchers in industry This volume is also suitable for graduate level students in computer science *Privacy-Preserving Data Mining* Charu C. Aggarwal,Philip S. Yu,2008-06-10 Advances in hardware technology have increased the capability to store and record personal data about consumers and individuals causing concerns that personal data may be used for a variety of intrusive or malicious purposes Privacy Preserving Data Mining Models and Algorithms proposes a number of techniques to perform the data mining tasks in a privacy preserving way These techniques generally fall into the following categories data modification techniques cryptographic methods and protocols for data sharing statistical techniques for disclosure and inference control query auditing methods randomization and perturbation based techniques This edited volume contains surveys by distinguished researchers in the privacy field Each survey includes the key research content as well as future research directions Privacy Preserving Data Mining Models and Algorithms is designed for researchers professors and advanced level students in computer science and is also suitable for industry practitioners **Data Transformation for Privacy-preserving Data Mining** Stanley Robson de Medeiros Oliveira,2005 The sharing of data is often beneficial in data mining applications It has been proven useful to support both decision making processes and to promote social goals However the sharing of data has also raised a number of ethical issues Some such issues include those of privacy data security and intellectual property rights In this thesis we focus primarily on privacy issues in data mining notably when data are shared before mining Specifically we consider some scenarios in which applications of association rule mining and data clustering require privacy safeguards Addressing privacy preservation in such scenarios is complex One must not only meet privacy requirements but also guarantee valid data rnining results This status indicates the pressing need for rethinking mechanisnis to enforce privacy safeguards without losing the benefit of mining These mechanisms can lead to new privacy control methods to convert a database into a new one in such a waY as to preserve the main features of the original database for mining In particular we address the problem of transforming a database to be shared into a new one

that conceals private information while preserving the general patterrns and trends from the original database To address this challening problem we propose a unified framework for privacy preserving data mining that ensures that the mining process will not violate privacy up to a certain degree of security The frarnework encompasses a family of privacy preserving data transformation rnethods a library of algoritImis retrieval facilities to speed up the transformation process and a set of metrics to evaluate the effectiveness of the proposed algorithms in terms of information loss and to quantify how much private information has been disclosed Our investigation concludes that privacy preserving data mining is to some extent possible We demonstrate empirically and tlleoretically the practicality and feasibility of achieving privacy preservation in data mining Our experiments reveal that our framework is eff ctive meets privacy requ rements and guarantees valid data mining results while protecting sensitive information e g sensitive knowIedge and individuals privacy **Introduction to Privacy-Preserving Data Publishing** Benjamin C.M. Fung,Ke Wang,Ada Wai-Chee Fu,Philip S. Yu,2010-08-02 Gaining access to high quality data is a vital necessity in knowledge based decision making But data in its raw form often contains sensitive information about individuals Providing solutions to this problem the methods and tools of privacy preserving data publishing enable the publication of useful information while protecting data privacy Int *Privacy Preserving Data Mining* Shampa Bhattacharyya,Amit Bhattacharyya,2015-01-08 Data mining is under attack from privacy advocates because of a misunderstanding about what it actually is and a valid concern about how it s generally done This analysis shows how technology from the security community can change data mining for the better providing all its benefits while still maintaining privacy Recently a new class of data mining methods known as privacy preserving data mining PPDM algorithms has been developed by the research community working on security and knowledge discovery The aim of these algorithms is the extraction of relevant knowledge from large amount of data while protecting at the same time sensitive information Several PPDM techniques have been developed that allow one to hide sensitive item sets or patterns before the data mining process is executed such as randomization k anonymity data perturbation secure multiparty computation etc We mainly analysis two most general secure approach of PPDM Data Perturbation Secure Multiparty Computation Based on the analysis the solution for PPDM is developed for demonstration This Analysis should be especially useful to professionals in Cryptography and Data Mining fields <u>Privacy Preserving Data Mining for Medical Data</u> Tamas Sandor Gal,2011 **Handbook of Database Security** Michael Gertz,Sushil Jajodia,2007-12-03 Handbook of Database Security Applications and Trends provides an up to date overview of data security models techniques and architectures in a variety of data management applications and settings In addition to providing an overview of data security in different application settings this book includes an outline for future research directions within the field The book is designed for industry practitioners and researchers and is also suitable for advanced level students in computer science *Privacy-preserving Data Mining* Saeed Samet,2010 <u>Privacy-preserving Data Mining</u> Nan Zhang,2010 In the research of privacy preserving data mining

we address issues related to extracting knowledge from large amounts of data without violating the privacy of the data owners In this study we first introduce an integrated baseline architecture design principles and implementation techniques for privacy preserving data mining systems We then discuss the key components of privacy preserving data mining systems which include three protocols data collection inference control and information sharing We present and compare strategies for realizing these protocols Theoretical analysis and experimental evaluation show that our protocols can generate accurate data mining models while protecting the privacy of the data being mined **Privacy Preserving Data Mining Techniques** Alexander Gurevich,2007 *Security, Privacy, and Trust in Modern Data Management* Milan Petkovic,Willem Jonker,2007-06-12 The vision of ubiquitous computing and ambient intelligence describes a world of technology which is present anywhere anytime in the form of smart sensible devices that communicate with each other and provide personalized services However open interconnected systems are much more vulnerable to attacks and unauthorized data access In the context of this threat this book provides a comprehensive guide to security and privacy and trust in data management **Human Centered Computing** Qiaohong Zu,Bo Hu,2018-02-01 This book constitutes revised selected papers from the thoroughly refereed proceedings of the Third International Human Centered Computing Conference HCC 2017 that consolidated and further develops the successful ICPCA SWS conferences on Pervasive Computing and the Networked World and which was held in Kazan Russia in August 2017 The 48 full and 20 short papers presented in this book together with 2 invited keynotes were carefully reviewed and selected from numerous submissions This proceedings present recent advances in human machine interfaces wireless and mobile network technologies and data analytics which make computer services truly human centric Privacy-preserving Data Mining Through Data Publishing and Knowledge Model Sharing Hongwei Tian,2012 **Machine Learning and Data Mining in Pattern Recognition** Petra Perner,2009-07-21 There is no royal road to science and only those who do not dread the fatiguing climb of its steep paths have a chance of gaining its luminous summits Karl Marx A Universial Genius of the 19th Century Many scientists from all over the world during the past two years since the MLDM 2007 have come along on the stony way to the sunny summit of science and have worked hard on new ideas and applications in the area of data mining in pattern r ognition Our thanks go to all those who took part in this year s MLDM We appre ate their submissions and the ideas shared with the Program Committee We received over 205 submissions from all over the world to the International Conference on chine Learning and Data Mining MLDM 2009 The Program Committee carefully selected the best papers for this year s program and gave detailed comments on each submitted paper There were 63 papers selected for oral presentation and 17 papers for poster presentation The topics range from theoretical topics for classification clustering association rule and pattern mining to specific data mining methods for the different multimedia data types such as image mining text mining video mining and Web mining Among these topics this year were special contributions to subtopics such as attribute discre zation and data preparation novelty and outlier detection and distances

and simila ties **Information Security and Ethics: Concepts, Methodologies, Tools, and Applications** Nemati, Hamid,2007-09-30 Presents theories and models associated with information privacy and safeguard practices to help anchor and guide the development of technologies standards and best practices Provides recent comprehensive coverage of all issues related to information security and ethics as well as the opportunities future challenges and emerging trends related to this subject **ICT: Innovation and Computing** Amit Joshi,Mufti Mahmud,Roshan G. Ragel,S. Karthik,2024-04-17 This book contains best selected research papers presented at ICTCS 2023 Eighth International Conference on Information and Communication Technology for Competitive Strategies The conference will be held in Jaipur India during 8 9 December 2023 The book covers state of the art as well as emerging topics pertaining to ICT and effective strategies for its implementation for engineering and managerial applications This book contains papers mainly focused on ICT for computation algorithms and data analytics and IT security The work is presented in five volumes **Advances in Computing and Information Technology** Natarajan Meghanathan,Dhinaharan Nagamalai,Nabendu Chaki,2012-08-13 The international conference on Advances in Computing and Information technology ACITY 2012 provides an excellent international forum for both academics and professionals for sharing knowledge and results in theory methodology and applications of Computer Science and Information Technology The Second International Conference on Advances in Computing and Information technology ACITY 2012 held in Chennai India during July 13 15 2012 covered a number of topics in all major fields of Computer Science and Information Technology including networking and communications network security and applications web and internet computing ubiquitous computing algorithms bioinformatics digital image processing and pattern recognition artificial intelligence soft computing and applications Upon a strength review process a number of high quality presenting not only innovative ideas but also a founded evaluation and a strong argumentation of the same were selected and collected in the present proceedings that is composed of three different volumes Advances in Databases: Concepts, Systems and Applications Ramamohanarao Kotagiri,P. Radha Krishna,Mukesh Mohania,Ekawit Nantajeewarawat,2007-08-02 This book constitutes the refereed proceedings of the 12th International Conference on Database Systems for Advanced Applications DASFAA 2007 held in Bangkok Thailand April 2007 Coverage includes query language and query optimization data mining and knowledge discovery P2P and grid based data management XML databases database modeling and information retrieval Web and information retrieval database applications and security **Machine Intelligence and Data Science Applications** Vaclav Skala,T. P. Singh,Tanupriya Choudhury,Ravi Tomar,Md. Abul Bashar,2022-08-01 This book is a compilation of peer reviewed papers presented at International Conference on Machine Intelligence and Data Science Applications MIDAS 2021 held in Comilla University Cumilla Bangladesh during 26 27 December 2021 The book covers applications in various fields like image processing natural language processing computer vision sentiment analysis speech and gesture analysis etc It also includes interdisciplinary applications like legal healthcare smart society cyber physical

system and smart agriculture etc The book is a good reference for computer science engineers lecturers researchers in machine intelligence discipline and engineering graduates   *Research and Development in E-Business through Service-Oriented Solutions* Tarnay, Katalin,Imre, Sandor,Xu, Lai,2013-06-30 As businesses are continuously developing new services procedures and standards electronic business has emerged into an important aspect of the science field by providing various applications through efficiently and rapidly processing information among business partners Research and Development in E Business through Service Oriented Solutions highlights the main concepts of e business as well as the advanced methods technologies and aspects that focus on technical support This book is an essential reference source of professors students researchers developers and other industry experts in order to provide a vast amount of specialized knowledge sources for promoting e business

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