Leon Willenborg   Ton de Waal

Statistical Disclosure Control in Practice

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Statistical Disclosure Control In Practice

Khalid S. Soliman

Statistical Disclosure Control In Practice:

Statistical Disclosure Control in Practice Leon Willenborg,Ton de Waal,2014-09-01 **Statistical Disclosure Control in Practice** Leon Willenborg,Ton de Waal,2012-12-06 The aim of this book is to discuss various aspects associated with disseminating personal or business data collected in censuses or surveys or copied from administrative sources The problem is to present the data in such a form that they are useful for statistical research and to provide sufficient protection for the individuals or businesses to whom the data refer The major part of this book is concerned with how to define the disclosure problem and how to deal with it in practical circumstances Statistical Disclosure Control Anco Hundepool,Josep Domingo-Ferrer,Luisa Franconi,Sarah Giessing,Eric Schulte Nordholt,Keith Spicer,Peter-Paul de Wolf,2012-07-05 A reference to answer all your statistical confidentiality questions This handbook provides technical guidance on statistical disclosure control and on how to approach the problem of balancing the need to provide users with statistical outputs and the need to protect the confidentiality of respondents Statistical disclosure control is combined with other tools such as administrative legal and IT in order to define a proper data dissemination strategy based on a risk management approach The key concepts of statistical disclosure control are presented along with the methodology and software that can be used to apply various methods of statistical disclosure control Numerous examples and guidelines are also featured to illustrate the topics covered Statistical Disclosure Control Presents a combination of both theoretical and practical solutions Introduces all the key concepts and definitions involved with statistical disclosure control Provides a high level overview of how to approach problems associated with confidentiality Provides a broad ranging review of the methods available to control disclosure Explains the subtleties of group disclosure control Features examples throughout the book along with case studies demonstrating how particular methods are used Discusses microdata magnitude and frequency tabular data and remote access issues Written by experts within leading National Statistical Institutes Official statisticians academics and market researchers who need to be informed and make decisions on disclosure limitation will benefit from this book **Total Survey Error in Practice** Paul P. Biemer,Edith D. de Leeuw,Stephanie Eckman,Brad Edwards,Frauke Kreuter,Lars E. Lyberg,N. Clyde Tucker,Brady T. West,2017-02-06 Featuring a timely presentation of total survey error TSE this edited volume introduces valuable tools for understanding and improving survey data quality in the context of evolving large scale data sets This book provides an overview of the TSE framework and current TSE research as related to survey design data collection estimation and analysis It recognizes that survey data affects many public policy and business decisions and thus focuses on the framework for understanding and improving survey data quality The book also addresses issues with data quality in official statistics and in social opinion and market research as these fields continue to evolve leading to larger and messier data sets This perspective challenges survey organizations to find ways to collect and process data more efficiently without sacrificing quality The volume consists of the most up to date research and reporting from over 70 contributors

representing the best academics and researchers from a range of fields The chapters are broken out into five main sections The Concept of TSE and the TSE Paradigm Implications for Survey Design Data Collection and Data Processing Applications Evaluation and Improvement and Estimation and Analysis Each chapter introduces and examines multiple error sources such as sampling error measurement error and nonresponse error which often offer the greatest risks to data quality while also encouraging readers not to lose sight of the less commonly studied error sources such as coverage error processing error and specification error The book also notes the relationships between errors and the ways in which efforts to reduce one type can increase another resulting in an estimate with larger total error This book Features various error sources and the complex relationships between them in 25 high quality chapters on the most up to date research in the field of TSE Provides comprehensive reviews of the literature on error sources as well as data collection approaches and estimation methods to reduce their effects Presents examples of recent international events that demonstrate the effects of data error the importance of survey data quality and the real world issues that arise from these errors Spans the four pillars of the total survey error paradigm design data collection evaluation and analysis to address key data quality issues in official statistics and survey research Total Survey Error in Practice is a reference for survey researchers and data scientists in research areas that include social science public opinion public policy and business It can also be used as a textbook or supplementary material for a graduate level course in survey research methods   *Inference Control in Statistical Databases* Josep Domingo-Ferrer,2002-04-17 Inference control in statistical databases also known as statistical disclosure limitation or statistical confidentiality is about finding tradeoffs to the tension between the increasing societal need for accurate statistical data and the legal and ethical obligation to protect privacy of individuals and enterprises which are the source of data for producing statistics Techniques used by intruders to make inferences compromising privacy increasingly draw on data mining record linkage knowledge discovery and data analysis and thus statistical inference control becomes an integral part of computer science This coherent state of the art survey presents some of the most recent work in the field The papers presented together with an introduction are organized in topical sections on tabular data protection microdata protection and software and user case studies   Machine Learning and Principles and Practice of Knowledge Discovery in Databases Michael Kamp,Irena Koprinska,Adrien Bibal,Tassadit Bouadi,Benoît Frénay,Luis Galárraga,José Oramas,Linara Adilova,Yamuna Krishnamurthy,Bo Kang,Christine Largeron,Jefrey Lijffijt,Tiphaine Viard,Pascal Welke,Massimiliano Ruocco,Erlend Aune,Claudio Gallicchio,Gregor Schiele,Franz Pernkopf,Michaela Blott,Holger Fröning,Günther Schindler,Riccardo Guidotti,Anna Monreale,Salvatore Rinzivillo,Przemyslaw Biecek,Eirini Ntoutsi,Mykola Pechenizkiy,Bodo Rosenhahn,Christopher Buckley,Daniela Cialfi,Pablo Lanillos,Maxwell Ramstead,Tim Verbelen,Pedro M. Ferreira,Giuseppina Andresini,Donato Malerba,Ibéria Medeiros,Philippe Fournier-Viger,M. Saqib Nawaz,Sebastian Ventura,Meng Sun,Min Zhou,Valerio Bitetta,Ilaria Bordino,Andrea Ferretti,Francesco Gullo,Giovanni Ponti,Lorenzo Severini,Rita Ribeiro,João

Gama,Ricard Gavaldà,Lee Cooper,Naghmeh Ghazaleh,Jonas Richiardi,Damian Roqueiro,Diego Saldana Miranda,Konstantinos Sechidis,Guilherme Graça,2022-02-18 This two volume set constitutes the refereed proceedings of the workshops which complemented the 21th Joint European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD held in September 2021 Due to the COVID 19 pandemic the conference and workshops were held online The 104 papers were thoroughly reviewed and selected from 180 papers submited for the workshops This two volume set includes the proceedings of the following workshops Workshop on Advances in Interpretable Machine Learning and Artificial Intelligence AIMLAI 2021 Workshop on Parallel Distributed and Federated Learning PDFL 2021 Workshop on Graph Embedding and Mining GEM 2021 Workshop on Machine Learning for Irregular Time series ML4ITS 2021 Workshop on IoT Edge and Mobile for Embedded Machine Learning ITEM 2021 Workshop on eXplainable Knowledge Discovery in Data Mining XKDD 2021 Workshop on Bias and Fairness in AI BIAS 2021 Workshop on Workshop on Active Inference IWAI 2021 Workshop on Machine Learning for Cybersecurity MLCS 2021 Workshop on Machine Learning in Software Engineering MLiSE 2021 Workshop on MIning Data for financial applications MIDAS 2021 Sixth Workshop on Data Science for Social Good SoGood 2021 Workshop on Machine Learning for Pharma and Healthcare Applications PharML 2021 Second Workshop on Evaluation and Experimental Design in Data Mining and Machine Learning EDML 2020 Workshop on Machine Learning for Buildings Energy Management MLBEM 2021 *Machine Learning and Cryptographic Solutions for Data Protection and Network Security* Ruth, J. Anitha,Mahesh, Vijayalakshmi G. V.,Visalakshi, P.,Uma, R.,Meenakshi, A.,2024-05-31 In the relentless battle against escalating cyber threats data security faces a critical challenge the need for innovative solutions to fortify encryption and decryption processes The increasing frequency and complexity of cyber attacks demand a dynamic approach and this is where the intersection of cryptography and machine learning emerges as a powerful ally As hackers become more adept at exploiting vulnerabilities the book stands as a beacon of insight addressing the urgent need to leverage machine learning techniques in cryptography Machine Learning and Cryptographic Solutions for Data Protection and Network Security unveil the intricate relationship between data security and machine learning and provide a roadmap for implementing these cutting edge techniques in the field The book equips specialists academics and students in cryptography machine learning and network security with the tools to enhance encryption and decryption procedures by offering theoretical frameworks and the latest empirical research findings Its pages unfold a narrative of collaboration and cross pollination of ideas showcasing how machine learning can be harnessed to sift through vast datasets identify network weak points and predict future cyber threats **Privacy and Security Issues in Data Mining and Machine Learning** Christos Dimitrakakis,Aris Gkoulalas-Divanis,Aikaterini Mitrokotsa,Vassilios S. Verykios,Yücel Saygin,2011-03-17 This book constitutes the refereed proceedings of the International ECML PKDD Workshop on Privacy and Security Issues in Data Mining and Machine Learning PSDML 2010 held in Barcelona Spain in September 2010 The 11 revised full papers presented were carefully

reviewed and selected from 21 submissions The papers range from data privacy to security applications focusing on detecting malicious behavior in computer systems **Statistical Confidentiality** George T. Duncan,Mark Elliot,Gonzalez Juan Jose Salazar,2011-03-22 Because statistical confidentiality embraces the responsibility for both protecting data and ensuring its beneficial use for statistical purposes those working with personal and proprietary data can benefit from the principles and practices this book presents Researchers can understand why an agency holding statistical data does not respond well to the demand Just give me the data I m only going to do good things with it Statisticians can incorporate the requirements of statistical confidentiality into their methodologies for data collection and analysis Data stewards caught between those eager for data and those who worry about confidentiality can use the tools of statistical confidentiality toward satisfying both groups The eight chapters lay out the dilemma of data stewardship organizations such as statistical agencies in resolving the tension between protecting data from snoopers while providing data to legitimate users explain disclosure risk and explore the types of attack that a data snooper might mount present the methods of disclosure risk assessment give techniques for statistical disclosure limitation of both tabular data and microdata identify measures of the impact of disclosure limitation on data utility provide restricted access methods as administrative procedures for disclosure control and finally explore the future of statistical confidentiality *Artificial intelligence and Machine Learning* Khalid S. Soliman,2024-06-28 This book constitutes the revised selected papers of the 41st IBIMA International Conference on Artificial intelligence and Computer Science IBIMA AI 2023 which took place in Granada Spain during June 26 27 2023 The 30 full papers and 8 short papers included in this volume were carefully reviewed and selected from 58 submissions The book showcases a diverse array of research papers spanning various disciplines within the realm of Artificial Intelligence Machine Learning Information Systems Communications Technologies Software Engineering and Security and Privacy **Linking Sensitive Data** Peter Christen,Thilina Ranbaduge,Rainer Schnell,2020-10-17 This book provides modern technical answers to the legal requirements of pseudonymisation as recommended by privacy legislation It covers topics such as modern regulatory frameworks for sharing and linking sensitive information concepts and algorithms for privacy preserving record linkage and their computational aspects practical considerations such as dealing with dirty and missing data as well as privacy risk and performance assessment measures Existing techniques for privacy preserving record linkage are evaluated empirically and real world application examples that scale to population sizes are described The book also includes pointers to freely available software tools benchmark data sets and tools to generate synthetic data that can be used to test and evaluate linkage techniques This book consists of fourteen chapters grouped into four parts and two appendices The first part introduces the reader to the topic of linking sensitive data the second part covers methods and techniques to link such data the third part discusses aspects of practical importance and the fourth part provides an outlook of future challenges and open research problems relevant to linking sensitive databases The appendices provide pointers and describe freely available

open source software systems that allow the linkage of sensitive data and provide further details about the evaluations presented A companion Web site at https dmm anu edu au lsdbook2020 provides additional material and Python programs used in the book This book is mainly written for applied scientists researchers and advanced practitioners in governments industry and universities who are concerned with developing implementing and deploying systems and tools to share sensitive information in administrative commercial or medical databases The Book describes how linkage methods work and how to evaluate their performance It covers all the major concepts and methods and also discusses practical matters such as computational efficiency which are critical if the methods are to be used in practice and it does all this in a highly accessible way David J Hand Imperial College London **Synthetic Datasets for Statistical Disclosure Control** Jörg Drechsler,2011-06-24 The aim of this book is to give the reader a detailed introduction to the different approaches to generating multiply imputed synthetic datasets It describes all approaches that have been developed so far provides a brief history of synthetic datasets and gives useful hints on how to deal with real data problems like nonresponse skip patterns or logical constraints Each chapter is dedicated to one approach first describing the general concept followed by a detailed application to a real dataset providing useful guidelines on how to implement the theory in practice The discussed multiple imputation approaches include imputation for nonresponse generating fully synthetic datasets generating partially synthetic datasets generating synthetic datasets when the original data is subject to nonresponse and a two stage imputation approach that helps to better address the omnipresent trade off between analytical validity and the risk of disclosure The book concludes with a glimpse into the future of synthetic datasets discussing the potential benefits and possible obstacles of the approach and ways to address the concerns of data users and their understandable discomfort with using data that doesn t consist only of the originally collected values The book is intended for researchers and practitioners alike It helps the researcher to find the state of the art in synthetic data summarized in one book with full reference to all relevant papers on the topic But it is also useful for the practitioner at the statistical agency who is considering the synthetic data approach for data dissemination in the future and wants to get familiar with the topic *Research in Official Statistics* ,1998

Elements of Statistical Disclosure Control Leon Willenborg,Ton De Waal,2011-04-26 Actes de la Session International Statistical Institute,1998 **Bulletin de L'Institut International de Statistique** ,2001 Bayesian Inference in Wavelet-Based Models Peter Müller,1999-06-22 The remaining papers in this volume are divided into six parts independent prior modeling decision theoretic aspects dependent prior modeling spatial models using bivariate wavelet bases empirical Bayes approaches and case studies BOOK JACKET *Of Significance* ,1999 *(ISC)2 CISSP Certified Information Systems Security Professional Official Study Guide* Mike Chapple,James Michael Stewart,Darril Gibson,2018-05-08 NOTE The CISSP objectives this book covered were issued in 2018 For coverage of the most recent CISSP objectives effective in April 2021 please look for the latest edition of this guide ISC 2 CISSP Certified Information Systems Security Professional Official Study

Guide 9th Edition ISBN 9781119786238 CISSP ISC 2 Certified Information Systems Security Professional Official Study Guide 8th Edition has been completely updated for the latest 2018 CISSP Body of Knowledge This bestselling Sybex study guide covers 100% of all exam objectives You ll prepare for the exam smarter and faster with Sybex thanks to expert content real world examples advice on passing each section of the exam access to the Sybex online interactive learning environment and much more Reinforce what you ve learned with key topic exam essentials and chapter review questions Along with the book you also get access to Sybex s superior online interactive learning environment that includes Six unique 150 question practice exams to help you identify where you need to study more Get more than 90 percent of the answers correct and you re ready to take the certification exam More than 700 Electronic Flashcards to reinforce your learning and give you last minute test prep before the exam A searchable glossary in PDF to give you instant access to the key terms you need to know for the exam Coverage of all of the exam topics in the book means you ll be ready for Security and Risk Management Asset Security Security Engineering Communication and Network Security Identity and Access Management Security Assessment and Testing Security Operations Software Development Security   **Expanding Access to Research Data** Panel on Data Access for Research Purposes,Committee on National Statistics,Division of Behavioral and Social Sciences and Education,National Research Council,2005-11-11 Policy makers need information about the nation ranging from trends in the overall economy down to the use by individuals of Medicare in order to evaluate existing programs and to develop new ones This information often comes from research based on data about individual people households and businesses and other organizations collected by statistical agencies The benefit of increasing data accessibility to researchers and analysts is better informed public policy To realize this benefit a variety of modes for data access including restricted access to confidential data and unrestricted access to appropriately altered public use data must be used The risk of expanded access to potentially sensitive data is the increased probability of breaching the confidentiality of the data and in turn eroding public confidence in the data collection enterprise Indeed the statistical system of the United States ultimately depends on the willingness of the public to provide the information on which research data are based Expanding Access to Research Data issues guidance on how to more fully exploit these tradeoffs The panel s recommendations focus on needs highlighted by legal social and technological changes that have occurred during the last decade

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