



Fosca Giannotti
Dino Pedreschi (Eds.)

Mobility, Data Mining and Privacy

Geographic Knowledge Discovery



Springer

Mobility Data Mining And Privacy Geographic Knowledge Discovery

Fosca Giannotti,Dino Pedreschi

Mobility Data Mining And Privacy Geographic Knowledge Discovery:

Mobility, Data Mining and Privacy Fosca Giannotti,Dino Pedreschi,2008-01-12 Mobile communications and ubiquitous computing generate large volumes of data Mining this data can produce useful knowledge yet individual privacy is at risk This book investigates the various scientific and technological issues of mobility data open problems and roadmap The editors manage a research project called GeoPKDD Geographic Privacy Aware Knowledge Discovery and Delivery and this book relates their findings in 13 chapters covering all related subjects

Mobility, Data Mining and Privacy Fosca Giannotti,Dino Pedreschi,2008-08-12 *Privacy, Security, and Trust in KDD* Francesco Bonchi,Elena Ferrari,Wei Jiang,Bradley Malin,2009-05-25 This book constitutes the thoroughly refereed post workshop proceedings of the Second International Workshop on Privacy Security and Trust in KDD PinKDD 2008 held in Las Vegas NV USA in March 2008 in conjunction with the 14th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining KDD 2008 The 5 revised full papers presented together with 1 invited keynote lecture and 2 invited panel sessions were carefully reviewed and selected from numerous submissions The papers are extended versions of the workshop presentations and incorporate reviewers comments and discussions at the workshop and represent the diversity of data mining research issues in privacy security and trust as well as current work on privacy issues in geographic data mining

Data Privacy: Foundations, New Developments and the Big Data Challenge Vicenç Torra,2017-05-17 This book offers a broad cohesive overview of the field of data privacy It discusses from a technological perspective the problems and solutions of the three main communities working on data privacy statistical disclosure control those with a statistical background privacy preserving data mining those working with data bases and data mining and privacy enhancing technologies those involved in communications and security communities Presenting different approaches the book describes alternative privacy models and disclosure risk measures as well as data protection procedures for respondent holder and user privacy It also discusses specific data privacy problems and solutions for readers who need to deal with big data

Developments in Data Extraction, Management, and Analysis Do, Nhung,Rahayu, J. Wenny,Torabi, Torab,2012-10-31 With the improvements of artificial intelligence processor speeds and database sizes the rapidly expanding field of data mining continues to provide advancing methods for managing databases and gaining knowledge Developments in Data Extraction Management and Analysis is an essential collection of research on the area of data mining and analytics Presenting the most recent perspectives on data mining subjects and current issues this book is useful for practitioners and academics alike

Encyclopedia of Cryptography, Security and Privacy Sushil Jajodia,Pierangela Samarati,Moti Yung,2025-01-10 A rich stream of papers and many good books have been written on cryptography security and privacy but most of them assume a scholarly reader who has the time to start at the beginning and work his way through the entire text The goal of Encyclopedia of Cryptography Security and Privacy Third Edition is to make important notions of cryptography security and privacy accessible to readers who have an interest in a

particular concept related to these areas but who lack the time to study one of the many books in these areas The third edition is intended as a replacement of Encyclopedia of Cryptography and Security Second Edition that was edited by Henk van Tilborg and Sushil Jajodia and published by Springer in 2011 The goal of the third edition is to enhance on the earlier edition in several important and interesting ways First entries in the second edition have been updated when needed to keep pace with the advancement of state of the art Second as noticeable already from the title of the encyclopedia coverage has been expanded with special emphasis to the area of privacy Third considering the fast pace at which information and communication technology is evolving and has evolved drastically since the last edition entries have been expanded to provide comprehensive view and include coverage of several newer topics Transportation and Information Piyushimita (Vonu) Thakuriah,D. Glenn Geers,2013-06-18 Transformations in wireless connectivity and location aware technologies hold the promise of bringing a sea change in the way transportation information is generated and used in the future Sensors in the transportation system when integrated with those in other sectors for example energy utility and health have the potential to foster novel new ways of improving livability and sustainability The end result of these developments has been somewhat contradictory Although automation in the transportation environment has become increasingly widespread the level of involvement and active participation by people in terms of co creation and contribution of information has also increased As a result the following two major trends have been observed 1 increases in Machine to Machine M2M communications and 2 increases in the variety and volume of User Generated Content In this transportation paradigm the pervasive use of Information and Communication Technologies will serve as the foundation for mobility intelligence towards an ubiquitous information centered mobility environment However many technical and operational questions as well as social management and legal challenges present themselves in the transformation to this vision The book presents a non technical review of research and initiatives and a discussion of such opportunities and challenges Mobility Data Chiara Renzo,Stefano Spaccapietra,Esteban Zimányi,2013-10-14 Mobility of people and goods is essential in the global economy The ability to track the routes and patterns associated with this mobility offers unprecedented opportunities for developing new smarter applications in different domains Written by a renowned group of worldwide experts this book surveys the myriad facets of monitoring people in motion from spatio temporal data modeling to data aggregation and warehousing to data analysis International Journal of Computer Systems Science & Engineering ,2005 Proceedings of the National Conference on Computing for Nation Development ,2007 **Proceedings of the ... ACM Symposium on Advances in Geographic Information Systems** ,2005 GIS '05 Omar Boucelma,2005 **Privacy, Security, and Trust in KDD** Francesco Bonchi,Elena Ferrari,Wei Jiang,Bradley Malin,2009-05-13 This book constitutes the thoroughly refereed post workshop proceedings of the Second International Workshop on Privacy Security and Trust in KDD PinKDD 2008 held in Las Vegas NV USA in March 2008 in conjunction with the 14th ACM SIGKDD International Conference on Knowledge Discovery

and Data Mining KDD 2008 The 5 revised full papers presented together with 1 invited keynote lecture and 2 invited panel sessions were carefully reviewed and selected from numerous submissions The papers are extended versions of the workshop presentations and incorporate reviewers comments and discussions at the workshop and represent the diversity of data mining research issues in privacy security and trust as well as current work on privacy issues in geographic data mining

Geographic Data Mining and Knowledge Discovery Harvey J. Miller, Jiawei Han, 2009-05-27 The Definitive Volume on Cutting Edge Exploratory Analysis of Massive Spatial and Spatiotemporal Databases Since the publication of the first edition of Geographic Data Mining and Knowledge Discovery new techniques for geographic data warehousing GDW spatial data mining and geovisualization GVis have been developed In addition there has bee

Geographic Data Mining and Knowledge Discovery Harvey J. Miller, 2001 Advances in automated data collection are creating massive databases and a whole new field Knowledge Discovery Databases KDD has emerged to develop new methods of managing and exploiting them Data Mining is the interrogation of large databases using efficient computational methods The unique challenges brought about by the storing of massive geographical databases from high resolution satellite based systems to data from intelligent transportation systems for example has led to the field of geographical knowledge discovery GKD Geographic or Spatial Data Mining is the exploration

Handbook of Mobility Data Mining, Volume 1 Haoran Zhang, 2023-01-29 Handbook of Mobility

Data Mining Volume One Data Preprocessing and Visualization introduces the fundamental technologies of mobile big data mining MDM advanced AI methods and upper level applications helping readers comprehensively understand MDM with a bottom up approach The book explains how to preprocess mobile big data visualize urban mobility simulate and predict human travel behavior and assess urban mobility characteristics and their matching performance as conditions and constraints in transport emergency management and sustainability development systems The book contains crucial information for researchers engineers operators administrators and policymakers seeking greater understanding of current technologies infra knowledge structure and limitations Further the book introduces how to design MDM platforms that adapt to the evolving mobility environment new types of transportation and users based on an integrated solution that utilizes sensing and communication capabilities to tackle significant challenges faced by the MDM field This volume focuses on how to efficiently pre process mobile big data to extract and utilize critical feature information of high dimensional city people flow The book first provides a conceptual theory and framework then discusses data sources trajectory map matching noise filtering trajectory data segmentation data quality assessment and more concluding with a chapter on privacy protection in mobile big data mining Introduces the characteristics of different mobility data sources like GPS CDR and sensor based mobility data Summarizes existing visualization technologies of the current transportation system into a multi view frame covering the perspective of the three leading actors Provides recommendations for practical open source tools and libraries for system visualization Stems from the editor s strong network of global transport authorities and transport companies

providing a solid knowledge structure and data foundation as well as geographical and stakeholder coverage **American Doctoral Dissertations**, 2002 **Handbook of Mobility Data Mining, Volume 3** Haoran Zhang, 2023-01-29 Handbook of Mobility Data Mining Volume Three Mobility Data Driven Applications introduces the fundamental technologies of mobile big data mining MDM advanced AI methods and upper level applications helping readers comprehensively understand MDM with a bottom up approach The book explains how to preprocess mobile big data visualize urban mobility simulate and predict human travel behavior and assess urban mobility characteristics and their matching performance as conditions and constraints in transport emergency management and sustainability development systems The book contains crucial information for researchers engineers operators administrators and policymakers seeking greater understanding of current technologies infra knowledge structure and limitations The book introduces how to design MDM platforms that adapt to the evolving mobility environment and new types of transportation and users based on an integrated solution that utilizes sensing and communication capabilities to tackle significant challenges faced by the MDM field This third volume looks at various cases studies to illustrate and explore the methods introduced in the first two volumes covering topics such as Intelligent Transportation Management Smart Emergency Management detailing cases such as the Fukushima earthquake Hurricane Katrina and COVID 19 and Urban Sustainability Development covering bicycle and railway travel behavior mobility inequality and road and light pollution inequality Introduces MDM applications from six major areas intelligent transportation management shared transportation systems disaster management pandemic response low carbon transportation and social equality Uses case studies to examine possible solutions that facilitate ethical secure and controlled emergency management based on mobile big data Helps develop policy innovations beneficial to citizens businesses and society Stems from the editor s strong network of global transport authorities and transport companies providing a solid knowledge structure and data foundation as well as geographical and stakeholder coverage **Handbook of Mobility Data Mining, Volume 2** Haoran Zhang, 2023-01-29 Handbook of Mobility Data Mining Volume Two Mobility Analytics and Prediction introduces the fundamental technologies of mobile big data mining MDM advanced AI methods and upper level applications helping readers comprehensively understand MDM with a bottom up approach The book explains how to preprocess mobile big data visualize urban mobility simulate and predict human travel behavior and assess urban mobility characteristics and their matching performance as conditions and constraints in transport emergency management and sustainability development systems The book introduces how to design MDM platforms that adapt to the evolving mobility environment and new types of transportation and users This helpful guide provides a basis for how to simulate and predict mobility data After an introductory theory chapter the book then covers crucial topics such as long term mobility pattern analytics mobility data generators user information inference Grid based population density prediction and more The book concludes with a chapter on graph based mobility data analytics The information in this work is crucial for researchers engineers operators company

administrators and policymakers in related fields to comprehensively understand current technologies infra knowledge structure and limitations Discusses how to efficiently simulate massive and large scale people movement and predict mobility at an urban scale Introduces both online detection methods which can sequentially process data and offline detection methods which are usually more robust Stems from the editor s strong network of global transport authorities and transport companies providing a solid knowledge structure and data foundation as well as geographical and stakeholder coverage

Computational Movement Analysis Patrick Laube, 2014-09-02 This SpringerBrief discusses the characteristics of spatiotemporal movement data including uncertainty and scale It investigates three core aspects of Computational Movement Analysis Conceptual modeling of movement and movement spaces spatiotemporal analysis methods aiming at a better understanding of movement processes with a focus on data mining for movement patterns and using decentralized spatial computing methods in movement analysis The author presents Computational Movement Analysis as an interdisciplinary umbrella for analyzing movement processes with methods from a range of fields including GIScience spatiotemporal databases and data mining Key challenges in Computational Movement Analysis include bridging the semantic gap privacy issues when movement data involves people incorporating big and open data and opportunities for decentralized movement analysis arising from the internet of things The interdisciplinary concepts of Computational Movement Analysis make this an important book for professionals and students in computer science geographic information science and its application areas especially movement ecology and transportation research

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