

Data Mining: Principles and Algorithms

— Chapter 10.1 —
— Spatiotemporal Data Mining —

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Data Mining: Principles and Algorithms

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Generalizing Spatial and Multimedia Data

- **Spatial data:**
 - Generalize detailed geographic points into clustered regions, such as business, residential, industrial, or agricultural areas, according to land usage
 - Require the merge of a set of geographic areas by spatial operations
- **Image data:**
 - Extracted by aggregation and/or approximation
 - Size, color, shape, texture, orientation, and relative positions and structures of the contained objects or regions in the image
- **Music data:**
 - Summarize its melody: based on the approximate patterns that repeatedly occur in the segment
 - Summarized its style: based on its tone, tempo, or the major musical instruments played

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Data Mining: Principles and Algorithms

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Mining Spatiotemporal Information Systems

**João Manuel R. S. Tavares, Satyajit
Chakrabarti, Abhishek
Bhattacharya, Sujata Ghatak**

Mining Spatiotemporal Information Systems:

Mining Spatio-Temporal Information Systems Roy Ladner, Kevin Shaw, Mahdi Abdelguerfi, 2012-12-06 Mining Spatio Temporal Information Systems an edited volume is composed of chapters from leading experts in the field of Spatial Temporal Information Systems and addresses the many issues in support of modeling creation querying visualizing and mining Mining Spatio Temporal Information Systems is intended to bring together a coherent body of recent knowledge relating to STIS data modeling design implementation and STIS in knowledge discovery In particular the reader is exposed to the latest techniques for the practical design of STIS essential for complex query processing Mining Spatio Temporal Information Systems is structured to meet the needs of practitioners and researchers in industry and graduate level students in Computer Science

Environmental Information Systems: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2018-09-07 This three volume publication is an IGI Global Core Reference for 2019 as it provides over 75 chapters containing the latest research on information systems remote sensing and geographic information science that is utilized for the management of environmental data Bringing together the international perspectives of researchers in the U S Australia China Canada Italy and more this title is an ideal reference for engineers data scientists practitioners academicians and researchers interested solving conceptual methodological technical and managerial issues within Environmental Information Systems Environmental Information Systems Concepts Methodologies Tools and Applications is an innovative reference source containing the latest research on the use of information systems to track and organize environmental data for use in an overall environmental management system Highlighting a range of topics such as environmental analysis remote sensing and geographic information science this multi volume book is designed for engineers data scientists practitioners academicians and researchers interested in all aspects of environmental information systems

Handbook of Research on Geographic Information Systems Applications and Advancements Faiz, Sami, Mahmoudi, Khaoula, 2016-10-21 The proper management of geographic data can provide assistance to a number of different sectors within society As such it is imperative to continue advancing research for spatial data analysis The Handbook of Research on Geographic Information Systems Applications and Advancements presents a thorough overview of the latest developments in effective management techniques for collecting processing analyzing and utilizing geographical data and information Highlighting theoretical frameworks and relevant applications this book is an ideal reference source for researchers academics professionals and students actively involved in the field of geographic information systems

Emerging Technologies in Data Mining and Information Security João Manuel R. S. Tavares, Satyajit Chakrabarti, Abhishek Bhattacharya, Sujata Ghatak, 2021-05-04 This book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security IEMIS 2020 held at the University of Engineering Management Kolkata India during July 2020 The book is organized in three volumes and includes

high quality research work by academicians and industrial experts in the field of computing and communication including full length papers research in progress papers and case studies related to all the areas of data mining machine learning Internet of things IoT and information security *Advances in Spatio-Temporal Analysis* Xinming Tang,Yaolin Liu,Jixian

Zhang,Wolfgang Kainz,2007-08-23 Developments in Geographic Information Technology have raised the expectations of users A static map is no longer enough there is now demand for a dynamic representation Time is of great importance when operating on real world geographical phenomena especially when these are dynamic Researchers in the field of Temporal Geographical Infor **Spatiotemporal Frequent Pattern Mining from Evolving Region Trajectories** Berkay

Aydin,Rafal. A Angryk,2018-10-15 This SpringerBrief provides an overview within data mining of spatiotemporal frequent pattern mining from evolving regions to the perspective of relationship modeling among the spatiotemporal objects frequent pattern mining algorithms and data access methodologies for mining algorithms While the focus of this book is to provide readers insight into the mining algorithms from evolving regions the authors also discuss data management for spatiotemporal trajectories which has become increasingly important with the increasing volume of trajectories This brief describes state of the art knowledge discovery techniques to computer science graduate students who are interested in spatiotemporal data mining as well as researchers professionals who deal with advanced spatiotemporal data analysis in their fields These fields include GIS experts meteorologists epidemiologists neurologists and solar physicists **Mobile**

Intelligence Laurence T. Yang,2010-02-08 Focuses on learning patterns and knowledge from data generated by mobile users and mobile technology Covers research and application issues in applying computational intelligence applications to mobile computing Delivers benefits to a wide range of applications Introduces the state of the art of computational intelligence to the mobile paradigm **Recent Advances in Geographic Information System for Earth Sciences**

Yosoon Choi,2020-06-23 Geographic information systems GISs have played a vital role in Earth sciences by providing a powerful means of observing the world and various tools for solving complex problems The scientific community has used GISs to reveal fascinating details about the Earth and other planets This book on recent advances in GIS for Earth sciences includes 12 publications from esteemed research groups worldwide The research and review papers in this book belong to the following broad categories Earth science informatics geoinformatics mining hydrology natural hazards and society

Comprehensive Geographic Information Systems ,2017-07-21 Geographical Information Systems Three Volume Set is a computer system used to capture store analyze and display information related to positions on the Earth s surface It has the ability to show multiple types of information on multiple geographical locations in a single map enabling users to assess patterns and relationships between different information points a crucial component for multiple aspects of modern life and industry This 3 volumes reference provides an up to date account of this growing discipline through in depth reviews authored by leading experts in the field VOLUME EDITORSThomas J CovaThe University of Utah Salt Lake City UT United

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Covers a rapidly expanding discipline providing readers with a detailed overview of all aspects of geographic information systems principles and applications Emphasizes the practical socioeconomic applications of GIS Provides readers with a reliable one stop comprehensive guide saving them time in searching for the information they need from different sources

Computer, Communication and Electrical Technology Debatosh Guha,Badal Chakraborty,Himadri Sekhar Dutta,2017-03-16 The First International Conference on Advancement of Computer Communication and Electrical Technology focuses on key technologies and recent progress in computer vision information technology applications VLSI signal processing power electronics drives and application of sensors transducers etc Topics in this conference include Computer Science This conference encompassed relevant topics in computer science such as computer vision intelligent system networking theory and application of information technology Communication EngineeringTo enhance the theory technology of communication engineering ACCET 2016 highlighted the state of the art research work in the field of VLSI optical communication and signal processing of various data formatting Research work in the field of microwave engineering cognitive radio and networks are also included Electrical Technology The state of the art research topic in the field of electrical instrumentation engineering is included in this conference such as power system stability protection non conventional energy resources electrical drives and biomedical engineering Research work in the area of optimization and application in control measurement instrumentation are included as well

Handbook of Research on Geoinformatics Karimi, Hassan A.,2009-01-31 This book discusses the complete range of contemporary research topics such as computer modeling geometry geoprocessing and geographic information systems Provided by publisher

Web Information Systems Engineering - WISE 2022 Richard Chbeir,Helen Huang,Fabrizio Silvestri,Yannis Manolopoulos,Yanchun Zhang,2022-11-07 This book constitutes the proceedings of the 23rd International Conference on Web Information Systems Engineering WISE 2021 held in Biarritz France in November 2022 The 31 full 13 short and 3 demo papers were carefully reviewed and selected from 94 submissions The papers are organized in the following topical sections Social Media Spatial Temporal Issues Query Processing Information Extraction Architecture and Performance Graph Data Management Security Privacy Information Retrieval Text Processing Reinforcement Learning Learning Optimization Spatial Data Processing Recommendation Neural Networks and Demo Papers

Trends in Spatial Analysis and Modelling Martin Behnisch,Gotthard Meinel,2017-10-24 This book is a collection of original research papers that focus on recent developments in Spatial Analysis and Modelling with direct relevance to settlements and infrastructure Topics include new types of data such as simulation data applications of methods to support decision making and investigations of human

environment data in order to recognize significance for structures functions and processes of attributes Research incorporated ranges from theoretical through methodological to applied work It is subdivided into four main parts the first focusing on the research of settlements and infrastructure the second studies aspects of Geographic Data Mining the third presents contributions in the field of Spatial Modelling System Dynamics and Geosimulation and the fourth part is dedicated to Multi Scale Representation and Analysis The book is valuable to those with a scholarly interest in spatial sciences urban and spatial planning as well as anyone interested in spatial analysis and the planning of human settlements and infrastructure Most of the selected papers were originally presented at the International Land Use Symposium ILUS 2015 Trends in Spatial Analysis and Modelling of Settlements and Infrastructure November 11 13 2015 in Dresden Germany

Applications of Artificial Intelligence in Engineering Xiao-Zhi Gao,Rajesh Kumar,Sumit Srivastava,Bhanu Pratap Soni,2021-05-10 This book presents best selected papers presented at the First Global Conference on Artificial Intelligence and Applications GCAIA 2020 organized by the University of Engineering Management Jaipur India during 8 10 September 2020 The proceeding will be targeting the current research works in the domain of intelligent systems and artificial intelligence

Proceedings of the 16th International Conference on Hybrid Intelligent Systems (HIS 2016) Ajith Abraham,Abdelkrim Haqiq,Adel M. Alimi,Ghita Mezzour,Nizar Rokbani,Azah Kamilah Muda,2017-02-21 This book presents the latest research in hybrid intelligent systems It includes 57 carefully selected papers from the 16th International Conference on Hybrid Intelligent Systems HIS 2016 and the 8th World Congress on Nature and Biologically Inspired Computing NaBIC 2016 held on November 21 23 2016 in Marrakech Morocco HIS NaBIC 2016 was jointly organized by the Machine Intelligence Research Labs MIR Labs USA Hassan 1st University Settat Morocco and University of Sfax Tunisia Hybridization of intelligent systems is a promising research field in modern artificial computational intelligence and is concerned with the development of the next generation of intelligent systems The conference s main aim is to inspire further exploration of the intriguing potential of hybrid intelligent systems and bio inspired computing As such the book is a valuable resource for practicing engineers scientists and researchers working in the field of computational intelligence and artificial intelligence

A Research Agenda for Geographic Information Science at the United States Geological Survey National Research Council,Division on Earth and Life Studies,Board on Earth Sciences and Resources,Mapping Science Committee,Committee on Research Priorities for the USGS Center of Excellence for Geospatial Information Science,2007-10-26 Comprehensive and authoritative baseline geospatial data content is crucial to the nation and to the U S Geological Survey USGS The USGS founded its Center of Excellence for Geospatial Information Science CEGIS in 2006 to develop and distribute national geospatial data assets in a fast moving information technology environment In order to fulfill this mission the USGS asked the National Research Council to assess current GIScience capabilities at the USGS identify current and future needs for GIScience capabilities recommend strategies for strengthening these capabilities and for

collaborating with others to maximize research productivity and make recommendations regarding the most effective research areas for CEGIS to pursue With an initial focus on improving the capabilities of The National Map the report recommends three priority research areas for CEGIS information access and dissemination data integration and data models and further identifies research topics within these areas that CEGIS should pursue To address these research topics CEGIS needs a sustainable research management process that involves a portfolio of collaborative research that balances short and long term goals

Encyclopedia of GIS Shashi Shekhar,Hui Xiong,2007-12-12 The Encyclopedia of GIS provides a comprehensive and authoritative guide contributed by experts and peer reviewed for accuracy and alphabetically arranged for convenient access The entries explain key software and processes used by geographers and computational scientists Major overviews are provided for nearly 200 topics Geoinformatics Spatial Cognition and Location Based Services and more Shorter entries define specific terms and concepts The reference will be published as a print volume with abundant black and white art and simultaneously as an XML online reference with hyperlinked citations cross references four color art links to web based maps and other interactive features

Sports Analytics Ambikesh Jayal,Allistair McRobert,Giles Oatley,Peter O'Donoghue,2018-06-12 As the analysis of big datasets in sports performance becomes a more entrenched part of the sporting landscape so the value of sport scientists and analysts with formal training in data analytics grows Sports Analytics Analysis Visualisation and Decision Making in Sports Performance provides the most authoritative and comprehensive guide to the use of analytics in sport and its application in sports performance coaching talent identification and sports medicine available Employing an approach based structure and integrating problem based learning throughout the text the book clearly defines the difference between analytics and analysis and goes on to explain and illustrate methods including Interactive visualisation Simulation and modelling Geospatial data analysis Spatiotemporal analysis Machine learning Genomic data analysis Social network analysis Offering a mixed methods case study chapter no other book offers the same level of scientific grounding or practical application in sports data analytics Sports Analytics is essential reading for all students of sports analytics and useful supplementary reading for students and professionals in talent identification and development sports performance analysis sports medicine and applied computer science

Advances in Databases and Information Systems Barbara Catania,Mirjana Ivanovic,Bernhard Thalheim,2010-09-16 This volume contains the best papers presented at the 14th East European Conference on Advances in Databases and Information Systems ADBIS 2010 held during September 20-24 2010 in Novi Sad Serbia ADBIS 2010 continued the ADBIS series held in St Petersburg 1997 Poznan 1998 Maribor 1999 Prague 2000 Vilnius 2001 Bratislava 2002 Dresden 2003 Budapest 2004 Tallinn 2005 Thessaloniki 2006 Varna 2007 Pori 2008 and Riga 2009 The main objective of the ADBIS series of conferences is to provide a forum for the dissemination of research accomplishments and to promote interaction and collaboration between the database and information systems research communities from Central and East European countries and the rest of the world The ADBIS conferences

provide an international platform for the presentation of research on database theory development of advanced DBMS technologies and their advanced applications ADBIS 2010 spans a wide area of interests covering all major aspects related to theory and applications of database technology and information systems Two different submission lines were considered for ADBIS 2010 one within the classic track and another one within a special track organisation ADBIS comprised five tracks 1 Conceptual Modeling in Systems Engineering CMSE 2 Data Mining and Information Extraction DMIE 3 Business Processes in E Commerce Systems e commerce 4 Personal Identifiable Information Privacy Ethics and Security PIIPES 5

Spatio-Temporal Databases Rita de Caluwe, Guy De Tré, Gloria Bordogna, 2013-04-17 Spatio Temporal Databases explores recent trends in flexible querying and reasoning about time and space related information in databases It shows how flexible querying enhances standard querying expressiveness in many different ways with the aim of facilitating extraction of relevant data and information Flexible spatial and temporal reasoning denotes qualitative reasoning about dynamic changes in the spatial domain characterized by imprecision or uncertainty or both Many of the contributions focus on GIS while some others are more general or focus on related application fields presenting theoretical viewpoints and techniques that are inspiring or can be adapted for GIS The first part bundles the contributions on advances at the theoretical level also discussing examples and opening further perspectives The second part presents contributions on well developed applications The authors explain how to handle imprecision and uncertainty demonstrating how advanced techniques can help to solve diverse problems related to GIS

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