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Edited by
**Cristóbal Romero, Sebastian Ventura,
Mykola Pechenizkiy, and Ryan S.J.d. Baker**



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Music Data Mining Chapman Hallcrc Data Mining And Knowledge Discovery Series

**Dimitrios Gunopulos, Thomas
Hofmann, Donato Malerba, Michalis
Vazirgiannis**

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Music Data Mining Tao Li,Mitsunori Ogiwara,George Tzanetakis,2011-07-12 The research area of music information retrieval has gradually evolved to address the challenges of effectively accessing and interacting large collections of music and associated data such as styles artists lyrics and reviews Bringing together an interdisciplinary array of top researchers Music Data Mining presents a variety of approaches to successfully employ data mining techniques for the purpose of music processing The book first covers music data mining tasks and algorithms and audio feature extraction providing a framework for subsequent chapters With a focus on data classification it then describes a computational approach inspired by human auditory perception and examines instrument recognition the effects of music on moods and emotions and the connections between power laws and music aesthetics Given the importance of social aspects in understanding music the text addresses the use of the Web and peer to peer networks for both music data mining and evaluating music mining tasks and algorithms It also discusses indexing with tags and explains how data can be collected using online human computation games The final chapters offer a balanced exploration of hit song science as well as a look at symbolic musicology and data mining The multifaceted nature of music information often requires algorithms and systems using sophisticated signal processing and machine learning techniques to better extract useful information An excellent introduction to the field this volume presents state of the art techniques in music data mining and information retrieval to create novel ways of interacting with large music collections

Spectral Feature Selection for Data Mining Zheng Alan Zhao,Huan Liu,2011-12-14 Spectral Feature Selection for Data Mining introduces a novel feature selection technique that establishes a general platform for studying existing feature selection algorithms and developing new algorithms for emerging problems in real world applications This technique represents a unified framework for supervised unsupervised and semisupervised

Advances in Machine Learning and Data Mining for Astronomy Michael J. Way,Jeffrey D. Scargle,Kamal M. Ali,Ashok N. Srivastava,2012-03-29 Advances in Machine Learning and Data Mining for Astronomy documents numerous successful collaborations among computer scientists statisticians and astronomers who illustrate the application of state of the art machine learning and data mining techniques in astronomy Due to the massive amount and complexity of data in most scientific disciplines

Multimedia Data Mining Zhongfei Zhang,Ruofei Zhang,2008-12-02 Collecting the latest developments in the field Multimedia Data Mining A Systematic Introduction to Concepts and Theory defines multimedia data mining its theory and its applications Two of the most active researchers in multimedia data mining explore how this young area has rapidly developed in recent years The book first discusses the theory

Machine Learning and Knowledge Discovery for Engineering Systems Health Management Ashok N. Srivastava,Jiawei Han,2016-04-19 This volume presents state of the art tools and techniques for automatically detecting diagnosing and predicting the effects of adverse events in an engineered system It emphasizes the importance of these techniques in managing the intricate interactions within and between engineering systems to maintain a

high degree of reliability Reflecting the interdisciplinary nature of the field the book explains how the fundamental algorithms and methods of both physics based and data driven approaches effectively address systems health management in application areas such as data centers aircraft and software systems **Discovery Science** Sašo Džeroski, Panče

Panov, Dragi Kocev, Ljupčo Todorovski, 2014-09-27 This book constitutes the proceedings of the 17th International Conference on Discovery Science DS 2014 held in Bled Slovenia in October 2014 The 30 full papers included in this volume were carefully reviewed and selected from 62 submissions The papers cover topics such as computational scientific discovery data mining and knowledge discovery machine learning and statistical methods computational creativity mining scientific data data and knowledge visualization knowledge discovery from scientific literature mining text unstructured and multimedia data mining structured and relational data mining temporal and spatial data mining data streams network analysis discovery informatics discovery and experimental workflows knowledge capture and scientific ontologies data and knowledge integration logic and philosophy of scientific discovery and applications of computational methods in various scientific domains Studies on Authorship in Historical Keyboard Music Andrew Woolley, 2023-10-31 Authorship is a pertinent issue

for historical musicology and musicians more widely and some controversies concerned with major figures have even reached wider consciousness Scholars have clarified some of the issues at stake in recent decades such as the places of borrowing and arranging in the creative process and the wider cultural significance of these practices The discovery of new sources and methodologies has also opened up opportunities for reassessing specific authorship problems Drawing upon this wider musicological literature as well as insights from other disciplines such as intellectual history and book history this book aims to build on what has already been achieved by focussing on keyboard music The nine chapters cover case studies of authorship problems the socioeconomic conditions of music publishing the contributions of composers arrangers copyists and music publishers in creating notated keyboard compositions the functions of attribution and ascription and how the contexts in which notated pieces were used affected concepts of authorship at different times and places Music Data Analysis

Claus Weihs, Dietmar Jannach, Igor Vatolkin, Guenter Rudolph, 2016-11-17 This book provides a comprehensive overview of music data analysis from introductory material to advanced concepts It covers various applications including transcription and segmentation as well as chord and harmony instrument and tempo recognition It also discusses the implementation aspects of music data analysis such as architecture user interface and hardware It is ideal for use in university classes with an interest in music data analysis It also could be used in computer science and statistics as well as musicology **Machine**

Learning and Knowledge Discovery in Databases Dimitrios Gunopulos, Thomas Hofmann, Donato Malerba, Michalis Vazirgiannis, 2011-09-06 This three volume set LNAI 6911 LNAI 6912 and LNAI 6913 constitutes the refereed proceedings of the European conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2011 held in Athens Greece in September 2011 The 121 revised full papers presented together with 10 invited talks and 11 demos in the three

volumes were carefully reviewed and selected from about 600 paper submissions The papers address all areas related to machine learning and knowledge discovery in databases as well as other innovative application domains such as supervised and unsupervised learning with some innovative contributions in fundamental issues dimensionality reduction distance and similarity learning model learning and matrix tensor analysis graph mining graphical models hidden markov models kernel methods active and ensemble learning semi supervised and transductive learning mining sparse representations model learning inductive logic programming and statistical learning a significant part of the papers covers novel and timely applications of data mining and machine learning in industrial domains

Supervised Descriptive Pattern Mining

Sebastián Ventura, José María Luna, 2018-10-05 This book provides a general and comprehensible overview of supervised descriptive pattern mining considering classic algorithms and those based on heuristics It provides some formal definitions and a general idea about patterns pattern mining the usefulness of patterns in the knowledge discovery process as well as a brief summary on the tasks related to supervised descriptive pattern mining It also includes a detailed description on the tasks usually grouped under the term supervised descriptive pattern mining subgroups discovery contrast sets and emerging patterns Additionally this book includes two tasks class association rules and exceptional models that are also considered within this field A major feature of this book is that it provides a general overview formal definitions and algorithms of all the tasks included under the term supervised descriptive pattern mining It considers the analysis of different algorithms either based on heuristics or based on exhaustive search methodologies for any of these tasks This book also illustrates how important these techniques are in different fields a set of real world applications are described Last but not least some related tasks are also considered and analyzed The final aim of this book is to provide a general review of the supervised descriptive pattern mining field describing its tasks its algorithms its applications and related tasks those that share some common features This book targets developers engineers and computer scientists aiming to apply classic and heuristic based algorithms to solve different kinds of pattern mining problems and apply them to real issues Students and researchers working in this field can use this comprehensive book which includes its methods and tools as a secondary textbook

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