

Chapman & Hall/CRC  
Data Mining and Knowledge Discovery Series

# Music Data Mining



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A CHAPMAN & HALL BOOK

# Music Data Mining Chapman Hallcrc Data Mining And Knowledge Discovery Series

**Andrew Woolley**

## **Music Data Mining Chapman Hallcrc Data Mining And Knowledge Discovery Series:**

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*Music Data Mining* Tao Li,Mitsunori Ogihara,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

[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 musicalological 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

*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

*Data Science and Analytics with Python*

Jesus Rogel-Salazar,2025-06-03 Since the first edition of Data Science and Analytics with Python we have witnessed an unprecedented explosion in the interest and development within the fields of Artificial Intelligence and Machine Learning This surge has led to the widespread adoption of the book not just among business practitioners but also by universities as a key textbook In response to this growth this new edition builds upon the success of its predecessor expanding several sections updating the code to reflect the latest advancements in Python libraries and modules and addressing the ever evolving landscape of generative AI GenAI This

updated edition ensures that the examples and exercises remain relevant by incorporating the latest features of popular libraries such as Scikit learn pandas and Numpy Additionally new sections delve into cutting edge topics like generative AI reflecting the advancements and the expanding role these technologies play This edition also addresses crucial issues of explainability transparency and fairness in AI These topics have rightly gained significant attention in recent years As AI integrates more deeply into various aspects of our lives understanding and mitigating biases ensuring fairness and maintaining transparency become paramount This book provides comprehensive coverage of these topics offering practical insights and guidance for data scientists and analysts Designed as a practical companion for data analysts and budding data scientists this book assumes a working knowledge of programming and statistical modelling but aims to guide readers deeper into the wonders of data analytics and machine learning Maintaining the book's structure each chapter stands alone as much as possible allowing readers to use it as a reference as well as a textbook Whether revisiting fundamental concepts or diving into new advanced topics this book offers something valuable for every reader

*Using the Biological Literature* Diane Schmidt,2014-04-14 The biological sciences cover a broad array of literature types from younger fields like molecular biology with its reliance on recent journal articles genomic databases and protocol manuals to classic fields such as taxonomy with its scattered literature found in monographs and journals from the past three centuries *Using the Biological Literature A Practical Guide Fourth Edition* is an annotated guide to selected resources in the biological sciences presenting a wide ranging list of important sources This completely revised edition contains numerous new resources and descriptions of all entries including textbooks The guide emphasizes current materials in the English language and includes retrospective references for historical perspective and to provide access to the taxonomic literature It covers both print and electronic resources including monographs journals databases indexes and abstracting tools websites and associations providing users with listings of authoritative informational resources of both classical and recently published works With chapters devoted to each of the main fields in the basic biological sciences this book offers a guide to the best and most up to date resources in biology It is appropriate for anyone interested in searching the biological literature from undergraduate students to faculty researchers and librarians The guide includes a supplementary website dedicated to keeping URLs of electronic and web based resources up to date a popular feature continued from the third edition

**The British National Bibliography**  
Arthur James Wells,2009 *American Book Publishing Record* ,2002 **Mathematical Reviews** ,2004 *Technometrics*

,2004 **The Cumulative Book Index** ,1999 **Music Data Analysis** Claus Weihs,Dietmar Jannach,Guenther Rudolph,Igor Vatolkin,2016 Deep and Shallow Shlomo Dubnov,Ross Greer,2023-12-08 Providing an essential and unique bridge between the theories of signal processing machine learning and artificial intelligence AI in music this book provides a holistic overview of foundational ideas in music from the physical and mathematical properties of sound to symbolic representations Combining signals and language models in one place this book explores how sound may be represented and

manipulated by computer systems and how our devices may come to recognize particular sonic patterns as musically meaningful or creative through the lens of information theory. Introducing popular fundamental ideas in AI at a comfortable pace more complex discussions around implementations and implications in musical creativity are gradually incorporated as the book progresses. Each chapter is accompanied by guided programming activities designed to familiarize readers with practical implications of discussed theory without the frustrations of free form coding. Surveying state of the art methods in applications of deep neural networks to audio and sound computing as well as offering a research perspective that suggests future challenges in music and AI research this book appeals to both students of AI and music as well as industry professionals in the fields of machine learning music and AI.

**Music Analysis by Time Series Data Mining** Meng Wang, Hong Kong Polytechnic University. Dept. of Computing, 2015

**Finding Patterns in Music Data Files with Data Mining Algorithms**, 2014

**Machine Learning and Music Generation** José M. Iñesta, Darrell C. Conklin, Rafael

Ramírez-Meléndez, Thomas M. Fiore, 2018-10-16 Computational approaches to music composition and style imitation have engaged musicians music scholars and computer scientists since the early days of computing. Music generation research has generally employed one of two strategies knowledge based methods that model style through explicitly formalized rules and data mining methods that apply machine learning to induce statistical models of musical style. The five chapters in this book illustrate the range of tasks and design choices in current music generation research applying machine learning techniques and highlighting recurring research issues such as training data music representation candidate generation and evaluation. The contributions focus on different aspects of modeling and generating music including melody chord sequences, ornamentation and dynamics. Models are induced from audio data or symbolic data. This book was originally published as a special issue of the Journal of Mathematics and Music.

**Data Mining And Knowledge Discovery**, 2003

**Computational Music Analysis** David Meredith, 2015-10-27

This book provides an in depth introduction and overview of current research in computational music analysis. Its seventeen chapters written by leading researchers collectively represent the diversity as well as the technical and philosophical sophistication of the work being done today in this intensely interdisciplinary field. A broad range of approaches are presented employing techniques originating in disciplines such as linguistics, information theory, information retrieval, pattern recognition, machine learning, topology, algebra and signal processing. Many of the methods described draw on well established theories in music theory and analysis such as Forte's pitch class set theory, Schenkerian analysis, the methods of semiotic analysis developed by Ruwet and Nattiez and Lerdahl and Jackendoff's Generative Theory of Tonal Music. The book is divided into six parts covering methodological issues, harmonic and pitch class set analysis, form and voice separation, grammars and hierarchical reduction, motivic analysis and pattern discovery, and finally classification and the discovery of distinctive patterns. As a detailed and up to date picture of current research in computational music analysis the book provides an invaluable resource for researchers, teachers and students in music theory.

and analysis computer science music information retrieval and related disciplines It also provides a state of the art reference for practitioners in the music technology industry *Intelligent Music Information Systems: Tools and Methodologies* Shen, Jialie, Shepherd, John, Cui, Bin, Liu, Ling, 2007-08-31 Modern technology and the development of user centric applications have grown to encompass many of our everyday routines and interests Such advances in music data management and information retrieval techniques have crossed the boundaries of expertise from researchers to developers to professionals in the music industry Intelligent Music Information Systems Tools and Methodologies provides comprehensive description and analysis into the use of music information retrieval from the data management perspective and thus provides libraries in academic commercial and other settings with a complete reference for multimedia system applications

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