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# Automatic Music Genres Classification Using Machine Learning

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Speech and Computer

8th International Workshop, AMR 2010, Linz, Austria, August 17-18, 2010. Revised Selected Papers

London International Conference, June 2021

Proceedings of Fourth ICCNCT 2021

Characterizing and Classifying Music Genres and Subgenres Via Association Analysis

6th International Workshop, MIWAI 2012, Ho Chin Minh City, Vietnam, December 26-28, 2012, Proceedings

Multi-disciplinary Trends in Artificial Intelligence

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Information Technology - New Generations

Proceedings of the 9th International Conference of Music Information Retrieval

Second Mexican Conference on Pattern Recognition, MCPR 2010, Puebla, Mexico, September 27-29, 2010, Proceedings

Proceedings of CIPR 2019

Music Technology with Swing

15th Portuguese Conference on Artificial Intelligence, EPIA 2011, Lisbon, Portugal, October 10-13, 2011, Proceedings

Driving With Music: Cognitive-Behavioural Implications

Advances in Pattern Recognition

Progress in Artificial Intelligence

15th International Conference on Information Technology

PROCEEDINGS 2021-3

Computational Intelligence in Pattern Recognition

Adaptive Multimedia Retrieval: Semantics, Context, and Adaptation

Music Data Mining

Complex Networks & Their Applications V

ICICT 2021, London, Volume 4  
Artificial Intelligence and Neural Networks  
Second IFIP TC 12 International Conference, ICIS 2017, Shanghai, China, October 25-28, 2017, Proceedings  
SocProS 2013, Volume 2  
2018 International Conference on Computer Communication and Informatics (ICCCI)  
12th Asian Conference, ACIIDS 2020, Phuket, Thailand, March 23-26, 2020, Proceedings  
13th International Symposium, CMMR 2017, Matosinhos, Portugal, September 25-28, 2017, Revised Selected Papers  
Artificial Intelligence and Soft Computing  
Proceedings of Second International Conference on Computing, Communications, and Cyber-Security  
Computer Networks and Inventive Communication Technologies  
7th ICCST 2020, Pattaya, Thailand, 29-30 August, 2020  
Advanced Data Mining and Applications  
Proceedings of Sixth International Congress on Information and Communication Technology  
New Methods for Data Analysis Based on Cognitive Criteria  
Intelligent Music Information Systems: Tools and Methodologies  
19th International Conference, ICAISC 2020, Zakopane, Poland, October 12-14, 2020, Proceedings, Part I

*Automatic Music Genres  
Classification Using  
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## **CASSANDRA KARTER**

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**Speech and Computer** Springer Nature

This book constitutes the refereed proceedings of the 8th International Conference on Adaptive Multimedia Retrieval, AMR 2010, held in Linz, Austria, in August 2010. The 14 revised full papers and the invited contribution presented

were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on Context-based personalization; media information fusion; video retrieval; audio and music retrieval; adaptive similarities; and finding and organizing.

**8th International Workshop, AMR 2010, Linz, Austria, August 17-18, 2010. Revised Selected Papers**

Springer

This book highlights cutting-edge research

in the field of network science, offering scientists, researchers and graduate students a unique opportunity to catch up on the latest advances in theory and a multitude of applications. It presents the peer-reviewed proceedings of the fifth International Workshop on Complex Networks & their Applications (COMPLEX NETWORKS 2016), which took place in Milan during the last week of November 2016. The carefully selected papers are divided into 11 sections reflecting the

diversity and richness of research areas in the field. More specifically, the following topics are covered: Network models; Network measures; Community structure; Network dynamics; Diffusion, epidemics and spreading processes; Resilience and control; Network visualization; Social and political networks; Networks in finance and economics; Biological and ecological networks; and Network analysis.

London International Conference, June 2021 Springer Nature

The inspiration for this book came from the Industrial Session of the ISMIS 2017 Conference in Warsaw. It covers numerous applications of intelligent technologies in various branches of the industry. Intelligent computational methods and big data foster innovation and enable the industry to overcome technological limitations and explore the new frontiers. Therefore it is necessary for scientists and practitioners to cooperate and inspire each other, and use the latest research findings to create new designs and products. As such, the contributions cover solutions to the problems experienced by practitioners in the areas of artificial intelligence, complex systems, data mining, medical

applications and bioinformatics, as well as multimedia- and text processing. Further, the book shows new directions for cooperation between science and industry and facilitates efficient transfer of knowledge in the area of intelligent information systems.

Proceedings of Fourth ICCNCT 2021 Springer

This book constitutes the thoroughly refereed post-proceedings of the 14th Turkish Symposium on Artificial Intelligence and Neural Networks, TAINN 2005, held in Izmir, Turkey, June 2005. The book presents 26 revised full papers categorized in topical sections on robotics, image processing, classification, learning theory and support vector machines, fuzzy neural networks, robotics, fuzzy logic, machine learning, engineering applications, and neural networks architecture.

Springer

This book constitutes the refereed proceedings of the Second International Conference on Intelligence Science, ICIS 2017, held in Shanghai, China, in October 2017. The 38 full papers and 9 short papers presented were carefully reviewed

and selected from 82 submissions. They deal with key issues in intelligence science and have been organized in the following topical sections: theory of intelligence science; cognitive computing; big data analysis and machine learning; machine perception; intelligent information processing; and intelligent applications.

**Characterizing and Classifying Music Genres and Subgenres Via Association Analysis** Springer

The 2018 International Conference on Computer Communication and Informatics (ICCCI 2018) aims to provide an outstanding opportunity for both academic and industrial communities alike to address new trends and challenges and emerging technologies on topics relevant to today's fast moving areas of Computer, Communication and Informatics. The conference will feature invited talks and referred paper presentations. The vision of ICCCI 2018 is to develop foster communication among researchers and practitioners working in a wide variety of areas in communication and informatics with a common interest.

**6th International Workshop, MIWAI 2012, Ho Chin Minh City, Vietnam,**

**December 26-28, 2012, Proceedings**

Springer Nature

This proceedings volume contains selected papers from the Fourth International Conference on Big Data Applications and Services (BigDAS 2017), held in Tashkent, Uzbekistan on August 15-18, 2017. Big data has become a core technology providing innovative solutions in many fields including social media, healthcare and manufacturing. The Fourth International Conference on Big Data Applications and Services (BigDAS 2017) presented innovative results, encouraged academic and industrial interaction, and promoted collaborative research in the field of big data worldwide. The conference was organized by the Korea Big Data Services Society and National University of Uzbekistan.

*Multi-disciplinary Trends in Artificial Intelligence* Springer Nature

2018 International Conference on Computer Communication and Informatics (ICCCI)

Select Proceedings of FLAME 2020

Ashgate Publishing, Ltd.

This book constitutes the proceedings of the 19th International Conference on

Speech and Computer, SPECOM 2017, held in Hatfield, UK, in September 2017. The 80 papers presented in this volume were carefully reviewed and selected from 150 submissions. The papers present current research in the area of computer speech processing (recognition, synthesis, understanding etc.) and related domains (including signal processing, language and text processing, computational paralinguistics, multi-modal speech processing, human-computer interaction). Information Technology - New Generations Springer

This book features selected research papers presented at the Second International Conference on Computing, Communications, and Cyber-Security (IC4S 2020), organized in Krishna Engineering College (KEC), Ghaziabad, India, along with Academic Associates; Southern Federal University, Russia; IAC Educational, India; and ITS Mohan Nagar, Ghaziabad, India during 3-4 October 2020. It includes innovative work from researchers, leading innovators, and professionals in the area of communication and network technologies, advanced computing technologies, data

analytics and intelligent learning, the latest electrical and electronics trends, and security and privacy issues.

**Proceedings of the 9th International Conference of Music Information Retrieval** Springer

This book gathers the proceedings of the Seventh International Conference on Computational Science and Technology 2020 (ICCST 2020), held in Pattaya, Thailand, on 29-30 August 2020. The respective contributions offer practitioners and researchers a range of new computational techniques and solutions, identify emerging issues, and outline future research directions, while also showing them how to apply the latest large-scale, high-performance computational methods.

*Second Mexican Conference on Pattern Recognition, MCPR 2010, Puebla, Mexico, September 27-29, 2010, Proceedings* CRC Press

The two-volume set LNAI 8346 and 8347 constitutes the thoroughly refereed proceedings of the 9th International Conference on Advanced Data Mining and Applications, ADMA 2013, held in Hangzhou, China, in December 2013. The

32 regular papers and 64 short papers presented in these two volumes were carefully reviewed and selected from 222 submissions. The papers included in these two volumes cover the following topics: opinion mining, behavior mining, data stream mining, sequential data mining, web mining, image mining, text mining, social network mining, classification, clustering, association rule mining, pattern mining, regression, predication, feature extraction, identification, privacy preservation, applications, and machine learning.

**Proceedings of CIPR 2019** Springer  
 "A software system that automatically classifies MIDI files into hierarchically organized taxonomies of musical genres is presented. This extensible software includes an easy to use and flexible GUI. An extensive library of high-level musical features is compiled, including many original features. A novel hybrid classification system is used that makes use of hierarchical, flat and round robin classification. Both k-nearest neighbour and neural network-based classifiers are used, and feature selection and weighting are performed using genetic algorithms. A

thorough review of previous research in automatic genre classification is presented, along with an overview of automatic feature selection and classification techniques. Also included is a discussion of the theoretical issues relating to musical genre, including but not limited to what mechanisms humans use to classify music by genre and how realistic genre taxonomies can be constructed." --

**Music Technology with Swing** Springer  
 Nature

This book constitutes the refereed proceedings of the 13th International Symposium on Music Technology with Swing, CMMR 2017, held in Matosinhos, Portugal, in September 2017. The 44 full papers presented were selected from 64 submissions. The papers are grouped in eight sections: music information retrieval, automatic recognition, estimation and classification, electronic dance music and rhythm, computational musicology, sound in practice: auditory guidance and feedback in the context of motor learning and motor adaptation, human perception in multimodal context, cooperative music networks and musical HClS, virtual and

augmented reality, research and creation: spaces and modalities.

15th Portuguese Conference on Artificial Intelligence, EPIA 2011, Lisbon, Portugal, October 10-13, 2011, Proceedings 2018  
 International Conference on Computer Communication and Informatics (ICCCI)The 2018 International Conference on Computer Communication and Informatics (ICCCI 2018) aims to provide an outstanding opportunity for both academic and industrial communities alike to address new trends and challenges and emerging technologies on topics relevant to today's fast moving areas of Computer, Communication and Informatics The conference will feature invited talks and referred paper presentations The vision of ICCCI 2018 is to develop foster communication among researchers and practitioners working in a wide variety of areas in communication and informatics with a common interestAutomatic Genre Classification of MIDI Recordings"A software system that automatically classifies MIDI files into hierarchically organized taxonomies of musical genres is presented. This extensible software includes an easy to use and flexible GUI.

An extensive library of high-level musical features is compiled, including many original features. A novel hybrid classification system is used that makes use of hierarchical, flat and round robin classification. Both k-nearest neighbour and neural network-based classifiers are used, and feature selection and weighting are performed using genetic algorithms. A thorough review of previous research in automatic genre classification is presented, along with an overview of automatic feature selection and classification techniques. Also included is a discussion of the theoretical issues relating to musical genre, including but not limited to what mechanisms humans use to classify music by genre and how realistic genre taxonomies can be constructed." --Music Technology with Swing13th International Symposium, CMMR 2017, Matosinhos, Portugal, September 25-28, 2017, Revised Selected Papers

This book contains a selection of higher quality and reviewed papers of the 15th Portuguese Conference on Artificial Intelligence, EPIA 2011, held in Lisbon, Portugal, in October 2011. The 50 revised

full papers presented were carefully reviewed and selected from a total of 203 submissions. The papers are organized in topical sections on affective computing, ambient intelligence environments, artificial intelligence methodologies for games, artificial intelligence in transportation systems, artificial life evolutionary algorithms, computational logic with applications, general artificial intelligence, intelligent robotics, knowledge discovery and business intelligence, multi-agent systems: theory and applications, social simulation and modeling, text mining and applications, and doctoral symposium on artificial intelligence.

#### **Driving With Music: Cognitive-Behavioural Implications** Springer

This book constitutes the thoroughly refereed post-conference proceedings of the 10th International Conference on Adaptive Multimedia Retrieval, AMR 2012, held in Copenhagen, Denmark, in October 2012. The 17 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers cover topics of state of the art contributions, features and classification, location

context, language and semantics, music retrieval, and adaptation and HCI.

*Advances in Pattern Recognition* IGI Global

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.

[Progress in Artificial Intelligence](#) Lulu.com  
 Neurobiological Background of Exploration Geosciences: New Methods for Data Analysis Based on Cognitive Criteria examines the neurobiological background of earth science disciplines. It presents the fundamental features of the human brain that form the cognitive basis of exploration geophysics and investigates how their analysis can drive the development of new brain-based technologies. Crucial aspects of human

cognition include the impulse to explore the environment, the ability of our brain to create mental maps and virtual images of the world, and the human ability to recognize, integrate and save patterns of information in a shared memory. Geoscience technology can be made more effective by taking the working neurobiological principles of our brains into account. This book is appropriate for multiple audiences, including neuroscientists, cognitive scientists and geoscientists, presenting both theoretical and experimental results. Presents the neurological background of human brain function and cognition as it relates to the geosciences Explores possible links between geophysics, neural anatomy and neural physiology Dissects topics with a multidisciplinary approach and balanced combination of theory and applications Examines the potential mechanism by which exploration geoscience is triggered by specific neural systems located in primordial areas of the subcortical brain Proposes working hypotheses and possible scenarios for future research in neuroscience and the geosciences  
**15th International Conference on**

**Information Technology** Springer Nature

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.

*PROCEEDINGS 2021-3* Springer

This book is a collection of peer-reviewed best-selected research papers presented at 4th International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT 2021). The book covers new results in theory, methodology, and applications of computer networks and data communications. It includes original

papers on computer networks, network protocols and wireless networks, data communication technologies, and network security. The proceedings of this conference are a valuable resource,

dealing with both the important core and the specialized issues in the areas of next-generation wireless network design, control, and management, as well as in the areas of protection, assurance, and

trust in information security practice. It is a reference for researchers, instructors, students, scientists, engineers, managers, and industry practitioners for advanced work in the area.

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