

# Music Emotion Recognition

Yi-Hsuan Yang • Homer H. Chen



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AN AUERBACH BOOK

# Music Emotion Recognition Multimedia Computing Communication And Intelligence

**LM Reder**

## **Music Emotion Recognition Multimedia Computing Communication And Intelligence:**

*Music Emotion Recognition* Yi-Hsuan Yang, Homer H. Chen, 2011-02-22 Providing a comprehensive review of existing work in music emotion developed in psychology and engineering this book explains how to account for the subjective nature of emotion perception in the development of automatic music emotion recognition MER systems Among the first publications dedicated to automatic MER it begins with a complete introduction to the essential aspects of MER including background key techniques and applications This ground breaking reference examines emotion from a dimensional perspective It defines emotions in music as points in a 2D plane in terms of two of the most fundamental emotion dimensions according to psychologists valence and arousal

*Deep Learning in Personalized Music Emotion Recognition* Yannik Venoehr, 2025-04-28 Music has a unique power to evoke strong emotions in us bringing us to tears lifting us into ecstasy or triggering vivid memories Often described as a universal language it conveys feelings that transcend words But are machines too able to understand this language and capture emotions conveyed in music This book delves into the field of Musical Emotion Recognition MER aiming to develop a mathematical model to predict the emotional content of music It explores the fundamentals of this interdisciplinary research area including the relationship between music and emotions mathematical representations of music and deep learning algorithms Two MER models are developed and evaluated one employing handcrafted audio features with a long short term memory architecture and the other using embeddings from the pre trained music understanding model MERT Results show that MERT embeddings can enhance predictions compared to traditional handcrafted features Additionally driven by the subjectivity of musical emotions and the low inter rater agreement of annotations this book investigates personalized emotion recognition The findings suggest that personalized models surpass the limitations of general MER systems and can even outperform a theoretically perfect general MER system

*From Sounds to Music and Emotions* Mitsuko Aramaki, Mathieu Barthet, Richard Kronland-Martinet, Sølvi Ystad, 2013-09-12 This book constitutes the thoroughly refereed post conference proceedings of the 9th International Symposium on Computer Music Modeling and Retrieval CMMR 2012 held in London UK in June 2012 The 28 revised full papers presented were carefully reviewed and selected for inclusion in this volume The papers have been organized in the following topical sections music emotion analysis 3D audio and sound synthesis computer models of music perception and cognition music emotion recognition music information retrieval film soundtrack and music recommendation and computational musicology and music education The volume also includes selected papers from the Cross Disciplinary Perspectives on Expressive Performance Workshop held within the framework of CMMR 2012

*Advances in Visual Data Compression and Communication* Feng Wu, 2014-07-25 Visual information is one of the richest and most bandwidth consuming modes of communication To meet the requirements of emerging applications powerful data compression and transmission techniques are required to achieve highly efficient communication even in the presence of growing communication channels that offer increased bandwidth

Presenting the results of the author's years of research on visual data compression and transmission Advances in Visual Data Compression and Communication Meeting the Requirements of New Applications provides a theoretical and technical basis for advanced research on visual data compression and communication The book studies the drifting problem in scalable video coding analyzes the reasons causing the problem and proposes various solutions to the problem It explores the author's Barbell based lifting coding scheme that has been adopted as common software by MPEG It also proposes a unified framework for deriving a directional transform from the nondirectional counterpart The structure of the framework and the statistic distribution of coefficients are similar to those of the nondirectional transforms which facilitates subsequent entropy coding Exploring the visual correlation that exists in media the text extends the current coding framework from different aspects including advanced image synthesis from description and reconstruction to organizing correlated images as a pseudo sequence It explains how to apply compressive sensing to solve the data compression problem during transmission and covers novel research on compressive sensor data gathering random projection codes and compressive modulation For analog and digital transmission technologies the book develops the pseudo analog transmission for media and explores cutting edge research on distributed pseudo analog transmission denoising in pseudo analog transmission and supporting MIMO It concludes by considering emerging developments of information theory for future applications

*Multimedia Computing and Systems* International Conference on Multimedia Computing and Systems, 1999 This two volume set contains the proceedings of the June 1999 conference devoted to presenting and exploring scientific and technological advancements innovations opportunities and solutions in Multimedia applications Among other topics the 318 contributions cover quality of service network management and distributed multimedia systems video compression web and video servers virtual and augmented reality computer graphics and animation multimodal interaction and usability content based retrieval from image and video databases authoring tools software engineering technologies for multimedia electronic commerce and educational cultural heritage and medical applications Contains an author index but no subject index Annotation c Book News Inc Portland OR booknews.com

**Linguistics and Language Behavior Abstracts**, 2008-02 Personalized Human-Computer Interaction Mirjam Augstein, Eelco Herder, Wolfgang Wörndl, 2019-09-23 Personalized and adaptive systems employ user models to adapt content services interaction or navigation to individual users' needs User models can be inferred from implicitly observed information such as the user's interaction history or current location or from explicitly entered information such as user profile data or ratings Applications of personalization include item recommendation location based services learning assistance and the tailored selection of interaction modalities With the transition from desktop computers to mobile devices and ubiquitous environments the need for adapting to changing contexts is even more important However this also poses new challenges concerning privacy issues user control transparency and explainability In addition user experience and other human factors are becoming increasingly important This book describes foundations of

user modeling discusses user interaction as a basis for adaptivity and showcases several personalization approaches in a variety of domains including music recommendation tourism and accessible user interfaces **Multimedia Technology for Applications** Bing J. Sheu,Mohammed Ismail,1998-07-06 With an emphasis on consumer electronics the contributing authors to Multimedia Technology for Applications present the very latest advances in signal processing communications and networking computer databases and circuits and systems as they relate to multimedia technology and applications Topics covered include multimedia systems standards and trends submicro electronic enabling technologies digital library servers networking multimedia signal processing and applications Publisher s description **Proceedings of the ACM Workshop on Next-generation Residential Broadband Challenges** ,2004 **Library & Information Science Abstracts** ,2006

**IEEE/WIC International Conference on Web Intelligence** Jiming Liu,2003 *Proceedings of the ... International Computer Music Conference* ,2005 International Conference on Multimodal Interfaces ,2006 ICMI '06 ,2006 IBM Systems Journal International Business Machines Corporation,2000 Byte ,1992-04 Artificial Intelligence for Art Creation and Understanding Luntian Mou,2024-08-29 AI Generated Content AIGC is a revolutionary engine for digital content generation In the area of art AI has achieved remarkable advancements AI is capable of not only creating paintings or music comparable to human masterpieces but it also understands and appreciates artwork For professionals and amateurs AI is an enabling tool and an opportunity to enjoy a new world of art This book aims to present the state of the art AI technologies for art creation understanding and evaluation The contents include a survey on cross modal generation of visual and auditory content explainable AI and music AI enabled robotic theater for Chinese folk art AI for ancient Chinese music restoration and reproduction AI for brainwave opera artistic text style transfer data driven automatic choreography Human AI collaborative sketching personalized music recommendation and generation based on emotion and memory MemoMusic understanding music and emotion from the brain music question answering emotional quality evaluation for generated music and AI for image aesthetic evaluation The key features of the book are as follows AI for Art is a fascinating cross disciplinary field for the academic community as well as the public Each chapter is an independent interesting topic which provides an entry for corresponding readers It presents SOTA AI technologies for art creation and understanding The artistry and appreciation of the book is wide ranging for example the combination of AI with traditional Chinese art This book is dedicated to the international cross disciplinary AI Art community professors students researchers and engineers from AI machine learning computer vision multimedia computing affective computing robotics etc art painting music dance fashion design etc cognitive science and psychology General audiences can also benefit from this book **Chinese journal of computers** ,2007 *Archives of Acoustics Quarterly* ,2015 **Peterson's Graduate Programs in Engineering and Applied Sciences, 1996** Peterson's Guides,Peterson's Guides Staff,Peterson's,1995-12-10 Graduate students depend on this series and ask for it by name Why For over 30 years it s been the only one stop source that supplies all of their information

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