Review

Context-Aware Recommender Systems in the Music Domain: A Systematic Literature Review

Álvaro Lozano Murciego, Diego M. Jiménez-Bravo, Adrián Valera Román, Juan F. De Paz Santana and María N. Moreno-García *

Department of Computer Science and Automation, Science Faculty, University of Salamanca, Plaza de los Caídos s/n, 37008 Salamanca, Spain; loza@usal.es (Á.L.M.); dmjimenez@usal.es (D.M.J.-B.); adrianvalrom.usal@usal.es (A.V.R.); fcofds@usal.es (J.F.D.P.S.)

* Correspondence: mmg@usal.es

Abstract: The design of recommendation algorithms aware of the user's context has been the subject of great interest in the scientific community, especially in the music domain where contextual factors have a significant impact on the recommendations. In this type of system, the user's contextual information can come from different sources such as the specific time of day, the user's physical activity, and geolocation, among many others. This context information is generally obtained by electronic devices used by the user to listen to music such as smartphones and other secondary devices such as wearables and Internet of Things (IoT) devices. The objective of this paper is to present a systematic literature review to analyze recent work to date in the field of context-aware recommender systems and specifically in the domain of music recommendation. This paper aims to analyze and classify the type of contextual information, the electronic devices used to collect it, the main outstanding challenges and the possible opportunities for future research directions.

Keywords: context-aware recommenders; cars; music recommendation; internet of things; slr; systematic literature review

1. Introduction

In the area of data mining and big data technologies, recommender systems (RS) [1] are a widely used collection of algorithms aimed to link the items offered by any service or business with its consumers through personalization techniques. The importance of these systems is such that it is noticeable how they have attracted the interest of the scientific literature and large technology companies over the last few years. In some companies, in their early days they were a central part of their business models, as in the cases of Amazon or Netflix.

Therefore, the main objective of recommender systems is to offer the most relevant items to users based on their profile, history, their explicit preferences such as ratings or opinions of other items or implicit preferences related to their interactions in the system with other items or even their relationships with other customers.

Furthermore, the rise of mobile technologies and ubiquitous computing employing Internet of Things (IoT) devices has allowed these systems to include information about the user's context when making their personalized recommendations. These types of recommender system are called context-aware recommender systems (CARS) [2] that seek to improve the relevance of the recommendations provided to the user by taking advantage of contextual information such as the user's location, time of day, physical activity, emotional state and other aspects of their environment. These contextual characteristics may influence the rating that the user would give an item depending on the specific

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User Modeling, Adaptation and Personalization Joseph Konstan,Ricardo Conejo,Jose L. Marzo,Nuria Oliver,2011-06-28 This book constitutes the proceedings of the third annual conference under the UMAP title aptation which resulted from the merger in 2009 of the successful biannual User Modeling UM and Adaptive Hypermedia AH conference series held on Girona Spain in July 2011 The 27 long papers and 6 short papers presented together with15 doctoral consortium papers 2 invited talks and 3 industry panel papers were carefully reviewed and selected from 164 submissions The tutorials and workshops were organized in topical sections on designing adaptive social applications semantic adaptive social Web and designing and evaluating new generation user modeling **Information Modelling and Knowledge Bases XXVIII** H. Jaakkola,B. Thalheim,Y. Kiyoki,2017-01-03 Information modelling and knowledge bases are now essential not only to academics working in computer science but also wherever information technology is applied This book presents papers from the 26th International Conference on Information Modelling and Knowledge Bases formerly the European Japanese Conference EJC which took place in Tampere Finland in June 2016 The conference provides a platform to bring together researchers and practitioners working with information modelling and knowledge bases and the 33 accepted papers cover topics including conceptual modelling knowledge and information modelling and discovery linguistic modelling cross cultural communication and social computing environmental modelling and engineering and multimedia data modelling and systems All papers were improved and resubmitted for publication after the conference Covering state of the art research and practice the book will be of interest to all those whose work involves information modelling and knowledge bases

E-Commerce and Web Technologies Christian Huemer,Thomas Setzer,2011-08-27 This book constitutes the refereed proceedings of the 12th International Conference on Electronic Commerce and Web Technologies EC Web held in Toulouse France in August September 2011 The 25 papers accepted for EC Web selected from 60 submissions are organized into eight topical sections on semantic services business processes and services context aware recommender systems intelligent agents and e negotiation systems collaborative filtering and preference learning social recommender systems agent interaction and trust management and innovative strategies for preference elicitation and profiling **User Modeling, Adaptation and Personalization** Vania Dimitrova,Tsvi Kuflik,David Chin,Francesco Ricci,Peter Dolog,Geert-Jan Houben,2014-06-19 This book constitutes the thoroughly refereed proceedings of the 22nd International Conference on User Modeling Adaption and Personalization held in Aalborg Denmark in July 2014 The 23 long and 19 short papers of the research paper track were carefully reviewed and selected from 146 submissions The papers cover the following topics large scale personalization adaptation and recommendation Personalization for individuals groups and populations modeling individuals groups and communities Web dynamics and personalization adaptive web based systems context awareness social recommendations user experience user awareness and control Affective aspects UMAP underpinning by psychology models privacy perceived

security and trust behavior change and persuasion   <u>Impact of Context-aware Recommender Systems on Habitual Listening Patterns</u> Anonym,2017-12-12 Seminar paper from the year 2017 in the subject Musicology grade 1 0 language English abstract With the ubiquitous availability and rapid travelling of information networked media environments confront consumers with an abundance of information which they can not handle by themselves As consequence of that digital media platforms such as Spotify make use of recommender systems that suggest items based on anticipated user preferences Thereby algorithms assist users to navigate huge databases of items Recommender systems turn out to be one of the most powerful tools to cope with information overload On the other hand digital music platforms afford user with new opportunities to add share comment or rank items and thus facilitate the formation of participatory music communities However very little is known about the socio cultural consequences of computer mediated decision making processes   *A Geographically-aware Context-based Music Recommendation System* René A. Enguehard,2009   *Personalized and context-aware music retrieval and recommendation* Zhiyong Cheng,2016 Rapid advances in mobile devices and cloud based music services have brought about a fundamental change in the way people consume music Cloud based music streaming platforms like Pandora and Last fm host an increasing huge volume of music contents Meanwhile the ubiquity of wireless infrastructure and advanced mobile devices enable users to access such abundant music content anytime and anywhere Consequently there has been an increasing demand for the development of intelligent techniques to facilitate personalized and context aware music retrieval and recommendation Most of existing music retrieval systems have not considered users music preferences and traditional music recommender systems have not considered the influence of local contexts As a result search and recommendation results may not best suit users music preference influenced by the dynamically changed contexts when users listen to music using mobile devices on the move Current mobile devices are equipped with various sensors and typically for personal use Thus rich user information e g age gender listening logs and various types of contexts e g time location can be obtained and detected with the mobile devices which provide an opportunity to develop personalized and context aware music retrieval and recommender systems Author s abstract   <u>A Historical Survey of Music Recommendation Systems</u> Ying Qin,2013 The development of the Internet and the emergence of audio compression technologies have contributed to the realization of making millions of music titles accessible to millions of users Due to the extensive distribution of music consumers are being presented with a problem of information overload while the music industry is being faced with the challenge of personalized promotion and distribution Music recommendation systems aim to ease the task of finding the music items that might interest the users by generating meaningful recommendations The recommendation for music is different from those for books and movies due to its low cost per item short consumption time high per item reuse highly contextual usage and numerous item types Understanding the patterns of music listening and consumption is important to create accurate and satisfying music recommendations This thesis reviews state of the art music

recommendation and discovery methods with the goal of presenting the historical developments in this area Traditional music recommendation systems can be classied as one of two major kinds collaborative filtering and content based filtering Recently the research community has broadened its attention to include other aspects such as hybrid approaches context awareness social tagging music networks visualization playlist generation and group recommendation For the evaluation of music recommendation systems researchers or developers need to take into account properties such as accuracy coverage confidence novelty diversity and privacy These properties can be measured in an offline simulation a user study or an online evaluation Suggestions for future work in both the design and the evaluation of music recommendation systems are given

   Computing Taste Nick Seaver,2022-12-06 Prologue Open Plan Introduction Technology with Humanity Too Much Music Captivating Algorithms What Are Listeners Like Hearing and Counting Space Is the Place Parks and Recommendation Epilogue What Are We Really Doing Here   *A Music Recommendation System Using Automatic Emotion Recognition and Context Determination for Mobile Devices* ,2017   **MIRages** Perfecto Herrera Boyer,2018 This tesis reports on research carried out and published during the last twenty years on different problems of Music Information Retrieval MIR We organize the text as a personal account and critical reflection along four hypothesized ages that have shaped the evolution of MIR In the age of feature extractors we present work on features to describe sounds and music especially timbre and tonal aspects In the age of semantic descriptors work on describing music with high level concepts such as mood instruments similarities cover versions or genres usually inferred with machine learning from annotated collections is reported In the age of context aware systems we report on user models for recommendation and for avatar generation in addition to factors that influence music listening decisions We finally discuss the possibility of a more recent age of creative systems where MIR features classifiers models and evaluation methodologies aid to enhance or expand music creation   *A Mood-based Music Classification and Exploration System* Owen Craigie Meyers,2007 Mood classification of music is an emerging domain of music information retrieval In the approach presented here features extracted from an audio file are used in combination with the affective value of song lyrics to map a song onto a psychologically based emotion space The motivation behind this system is the lack of intuitive and contextually aware playlist generation tools available to music listeners The need for such tools is made obvious by the fact that digital music libraries are constantly expanding thus making it increasingly difficult to recall a particular song in the library or to create a playlist for a specific event By combining audio content information with context aware data such as song lyrics this system allows the listener to automatically generate a playlist to suit their current activity or mood

Decoding **Context Aware Music Recommender Systems Unibz**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Context Aware Music Recommender Systems Unibz**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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