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[Interpretable Convolutional Neural Networks with Dual Local and Global Attention for Review Rating Prediction](#)

 [Sungyong Seo](#),  [Jing Huang](#),  [Hao Yang](#),  [Yan Liu](#)

RecSys '17: Proceedings of the Eleventh ACM Conference on Recommender Systems • August 2017, pp 297–305 • <https://doi.org/10.1145/3109859.3109890>

Recently, many e-commerce websites have encouraged their users to rate shopping items and write review texts. This review information has been very useful for understanding user preferences and item properties, as well as enhancing the capability to ...

[A](#) Highlights 

Full Text

DOI: <http://dx.doi.org/10.1145/3109859.3109890> 1 INTRODUCTION

Recommender systems are ubiquitous today at online shopping websites such as Amazon and Net~ix.

Since the additional information can provide details about particular user or item, it is di~cult to build personalized recommender systems without fully utilizing these data.



We also compare our model to a recently proposed context- aware recommendation model, convolutional matrix factorization (ConvMF+) [8].

Subject

RecSys: ACM Conference On Recommender Systems

RecSys: Recommender Systems

Machine learning

 
66 3,040

Hassan Sayyadi (2)
Jan Neumann (2)
Journals More (15) Magazines Proceedings Books
Editors ▼
Ling Liu (1)
Ryen White (1)
Sean Siqueira (1)
Sergio T. Carvalho (1)

Publications

Proceedings/Book Names ▼

RecSys '16: Proceedings of the 10th ACM Conference on Recommender Systems (3)

RecSys '17: Proceedings of the Eleventh ACM Conference on Recommender Systems (3)

RecSys '18: Proceedings of the 12th ACM Conference on Recommender Systems (3)

RecSys '15: Proceedings of the 9th ACM Conference on Recommender Systems (2)

SIGIR '18: The 41st International ACM SIGIR Conference on Research & Development in Information Retrieval (2)

More (15) ▼

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RESEARCH-ARTICLE FREE



Job recommendation with Hawkes process: an effective solution for RecSys Challenge 2016

Wenming Xiao, Xiao Xu, Kang Liang, Junkang Mao, Jun Wang

RecSys Challenge '16: Proceedings of the Recommender Systems Challenge • September 2016, Article No.: 11, pp 1

– 4 • <https://doi.org/10.1145/2987538.2987543>

The RecSys Challenge 2016 focuses on the prediction of users' interest in clicking a job posting in the career-oriented social networking site *Xing*. Given users' profile, the content of the job posting, as well as the historical activities of users, we ...

A Highlights ▼

Abstract

The RecSys Challenge 2016 focuses on the prediction of users' interest in clicking a job posting in the career-oriented social networking site Xing.

Full Text

CCS Concepts • Information systems → Recommender systems; Learning to rank; • Theory of computation → Boosting; Keywords Recommendation Systems, Top-N Ranking, Point Process, Ensemble learning 1. Recommendation systems [15] have been intensively studied in recent years due to its wide applications many domains, ranging from music recommendation to e-commerce platform to financial services. Some advanced extensions can leverage the user-profile and item-content information into the base intensity matrix to formulate a context-aware Hawkes Process [7, 8].

Subject

RecSys: ACM Conference On Recommender Systems
Machine learning theory
Recommender systems

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Recommender systems

[IU: Intelligent User Interfaces \(3\)](#)
[MM: International Multimedia Conference \(3\)](#)
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RESEARCH-ARTICLE FREE



Enabling heterogeneous recommendations in OSS development,
what's done and what's next in CROSSMINER



Phuong T. Nguyen,



Juri Di Rocco,



Davide Di Ruscio

EASE '19: Proceedings of the Evaluation and Assessment on Software Engineering • April 2019, pp 326–331 • <https://doi.org/10.1145/3319008.3319353>

Open source software (OSS) forges contain rich data sources that are useful for supporting development activities. Research has been done to promote techniques and tools for providing open source developers with innovative features aiming at obtaining ...

[A](#) Highlights ▾

Abstract

Following the proposed paradigm, we have implemented recommender systems for providing various artifacts, such as third-party libraries and API usage.

As a proof of concept, we present a use case where we built a context-aware recommender system to recommend API function calls and usage patterns.

Full Text

KEYWORDS software engineering, recommender systems, machine learning
ACM Reference Format: Phuong T.

We already made available the CrossRec's replication package to facilitate future research.4 2.2.2 Context-aware recommender systems.

Incorporating context into the computation brings in a new level of recommender systems, so called context-aware recommender systems (CARS) [1].

Keywords

machine learning
recommender systems

Publication Date



2015

2020

[Past 2 years](#)
[Past year](#)


1 75





Journals Magazines Proceedings Books

SIGS Conferences People

Personalizing Session-based Recommendations with Hierarchical Recurrent Neural Networks

Search ACM Digital



Massimo Quadrana, Alexandros Karatzoglou, Balázs Hidasi,
 Paolo Cremonesi

RecSys '17: Proceedings of the Eleventh ACM Conference on Recommender Systems • August 2017, pp 130–137 • <https://doi.org/10.1145/3109859.3109896>

Session-based recommendations are highly relevant in many modern on-line services (e.g. e-commerce, video streaming) and recommendation settings. Recently, Recurrent Neural Networks have been shown to perform very well in session-based settings. While ...

A Highlights ▾

Full Text

Finally a sequence to sequence model with a version of Hierarchical Recurrent Neural Networks was used for generative context-aware query suggestion in [17]. 3 MODEL In this section we describe the proposed Hierarchical RNN (HRNN henceforth) model for personalized session-based recommendation. 3.1 Session-based Recurrent Neural Network Our model is based on the session-based Recurrent Neural Network (RNN henceforth) model presented in [7].

As recommender systems can suggest only few items at once, the relevant item should be amongst the first few items in the recommendation list. Session-Based Recommender Systems RecSys'17, August 27–31, 2017, Como, Italy 130 Session-Based Recommender Systems RecSys'17, August 27–31, 2017, Como, Italy 131 Session-Based Recommender Systems RecSys'17, August 27–31, 2017, Como, Italy 132 Session-Based Recommender Systems RecSys'17, August 27–31, 2017, Como, Italy 133 Session-Based Recommender Systems RecSys'17, August 27–31, 2017, Como, Italy 134 Session-Based Recommender Systems RecSys'17, August 27–31, 2017, Como, Italy 135 Session-Based Recommender Systems RecSys'17, August 27–31, 2017, Como, Italy 136 Session-Based Recommender Systems RecSys'17, August 27–31, 2017, Como, Italy 137

Subject

RecSys: ACM Conference On Recommender Systems
 RecSys: Recommender Systems
 Machine learning



75 1,177





ABSTRACT FREE



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[3rd Workshop on Recommendation Systems for Television and Online Video \(RecSysTV 2016\)](#)

SIGS Conferences People

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[Ian Neumann,](#)[John Hannon,](#)[Claudio Riefolo,](#)[Hassan Sayyadi](#)

RecSys '16: Proceedings of the 10th ACM Conference on Recommender Systems • September 2016, pp 423

– 424 • <https://doi.org/10.1145/2959100.2959198>

For many households the television is the central entertainment hub in their home, and the average TV viewer spends about half of their leisure time in front of a TV. At any given moment, a costumer has hundreds to thousands of entertainment choices ...

[A](#) Highlights

Full Text

The unique challenges and wide-ranging applications of recommender systems in this domain motivated us to organize this workshop to bring together researchers from industry and academy in order to identify and share the key challenges, approaches and solutions of the field. 2. RecSys '16, September 15–19, 2016, Boston , MA, USA ACM 978–1–4503–4035–9/16/09. <http://dx.doi.org/10.1145/2959100.2959198> Context- aware TV and online video recommendations Leveraging contextual viewing behavior, e.g. device specific recommendations Mood based recommendations Group recommendations User modeling & leveraging user viewing and interaction behavior How can social media improve TV recommendations Cross-domain recommendation algorithms (linear TV, video on demand, DVR, gaming consoles) Multi-viewer profile separation Evaluation metrics for TV and online video recommendations Content-based TV and online video recommendations Analysis techniques for video recommendations based on video, audio, or closed caption signals Utilization of external data sources (movie reviews, ratings, plot summaries) for recommendations Other topics related to TV and online video recommendations Video play listing Linear TV usage and box office success prediction Catch-up TV recommendations Personalized advertisement recommendations Recommendations of 2nd screen web content Recommendations of short form videos (previews, trailers, music videos) 4. ACKNOWLEDGEMENTS We thank the RecSys 2016 organizing committee for giving us the opportunity to host this workshop in conjunction with RecSys 2016 and our companies Comcast, Moviri and Zalando for supporting this event.

Subject

RecSys: ACM Conference On Recommender Systems
RecSys: Recommender Systems
Machine learning

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Journals

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2nd Workshop on Recommendation Systems for Television and Online
Video (RecSysTV 2015)

SIGS Conferences People

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[Jan Neumann](#), [Danny Bickson](#), [Hassan Sayyadi](#), [Roberto Turrin](#),
 [John Hannon](#)

RecSys '15: Proceedings of the 9th ACM Conference on Recommender
Systems • September 2015, pp 353

–354 • <https://doi.org/10.1145/2792838.2798717>

For many households the television is the central entertainment hub in their home, and the average TV viewer spends about half of their leisure time in front of a TV. At any given moment, a costumer has hundreds to thousands of entertainment choices ...

A Highlights ▾

Full Text

The unique challenges and wide-ranging applications of recommender systems in this domain motivated us to organize this workshop to bring together researchers from industry and academy in order to identify and share the key challenges, approaches and solutions of the field. 2.

RecSys'15, Sept 16–20 2015, Vienna, Austria ACM 978–1–4503–3692–5/15/09 <http://dx.doi.org/10.1145/2792838.2798717> 3.

ACKNOWLEDGEMENTS We thank the RecSys 2015 organizing committee for giving us the opportunity to host this workshop in conjunction with RecSys 2015 and our companies Comcast, Dato, Moviri and Zalando for supporting this event.

Subject

RecSys: ACM Conference On Recommender Systems

RecSys: Recommender Systems

Machine learning

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Audience Activity Recommendation Using Stacked-LSTM Based Sequence Learning

SIGS Conferences

People

Search ACM Digital



Syed Tanveer Iishan,



Yiji Wang

ICMLC 2017: Proceedings of the 9th International Conference on Machine Learning and Computing • February 2017, pp 98

–106 • <https://doi.org/10.1145/3055635.3056606>

Recommender systems are used to suggest products to audiences by employing a similarity metric. One of the problem of such systems is that it does not incorporate the context of time. As result, it is not possible to change recommendation as audiences' ...

A Highlights ▾

Abstract

Recommender systems are used to suggest products to audiences by employing a similarity metric. One of the problem of such systems is that it does not incorporate the context of time.

Full Text

CCS Concepts • Information systems → Recommender systems; Temporal data; Computing Methodologies → Neural Networks.

Recommender systems are used to better understand the audience choices and behaviors. Therefore, recommender systems can be used to display products of interest to the audiences.

Nguyen et al. (2014) extended the idea to context-aware recommendations, regarding the latent representation as a stacked vector of item and contextual factors [4].

Subject

ICMLC: International Conference on Machine Learning and Computing

ICMLC: International Conference on Machine Learning and Computing

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Towards Accurate and Interpretable Sequential Prediction: A CNN & Attention-Based Feature Extractor

SIGS Conferences People

Search ACM Digital



Jingyi Wang, Qiang Liu, Zhaocheng Liu, Shu Wu

CIKM '19: Proceedings of the 28th ACM International Conference on Information and Knowledge Management • November 2019, pp 1703

–1712 • <https://doi.org/10.1145/3357384.3357887>

With the influence of information explosion, there are more and more choices exposed to public view. Next item recommendation is being a significant and challenging task. Recently, attention mechanism, Convolutional Neural Networks (CNN) and other kinds ...

A Highlights ▾**Full Text**

CCS CONCEPTS • Information systems → Recommender systems; • Computing methodologies → Machine learning; Neural networks. KEYWORDS Sequential prediction; recommender systems; CTR prediction; sequential feature extractor ACM Reference Format: Jingyi Wang, Qiang Liu, Zhaocheng Liu, and Shu Wu. 2019.

An example of applying these extracted features is next item recommendation, which is an important task in real-world recommender systems [28].

Keywords

recommender systems

Subject

Machine learning

Recommender systems

Machine learning approaches

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SIGS Conferences People
Sequential Scenario-Specific Meta Learner for Online
Recommendation

Search ACM Digital



Zhengxiao Du,



Xiaowei Wang,



Hongxia Yang,



Jingren Zhou,



Jie Tang

KDD '19: Proceedings of the 25th ACM SIGKDD International Conference on
Knowledge Discovery & Data Mining • July 2019, pp 2895–2904 • <https://doi.org/10.1145/3292500.3330726>

Cold-start problems are long-standing challenges for practical recommendations. Most existing recommendation algorithms rely on extensive observed data and are brittle to recommendation scenarios with few interactions. This paper addresses such problems ...

A Highlights ▾**Full Text**

Though context-aware recommender systems have been proven effective [3], they are facing several challenges. Compared to traditional recommender systems that make predictions based on the information of users and items, context-aware recommender systems [1, 3] make predictions in the space of $U \times I \times C$, where C is the context space. Current available open datasets for context-aware recommender systems are mostly of small scale with very sparse contextual information [22].

Keywords

recommender systems

Subject

Machine learning

Machine learning approaches

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Contextual Intent Tracking for Personal Assistants

SIGs Conferences People

Search ACM Digital



Yu Sun,



Nicholas Jing Yuan,



Yingzi Wang,



Xing Xie,



Kieran McDonald,



Rui Zhang

KDD '16: Proceedings of the 22nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining • August 2016, pp 273

–282 • <https://doi.org/10.1145/2939672.2939676>

A new paradigm of recommendation is emerging in intelligent personal assistants such as Apple's Siri, Google Now, and Microsoft Cortana, which recommends "the right information at the right time" and proactively helps you "get things done". This type of ...

A Highlights ▾

**Abstract**

., playing music, getting taxis) they intend to do. Users' intent is closely related to context, which includes both external environments such as time and location, and users' internal activities that can be sensed by personal assistants.

Full Text

FM is a state-of-the art method for context- aware and sequential recommendations. It performs effectively in personalized item-tag recommendation and sequential next-basket recommendation [20]. • Kalman filter (K).

RELATED WORK 6.1 Context- Aware Recommendation Traditional recommendation models focus on a specific intent, e.g., to find movies [6], books [19] or music tracks [8], and aim at recommending new items for the intent, which are content-centered.

Following the line of content-centered recommendation, context- aware recommendation [4, 17] further considers users' context, such as time, locations, devices, etc., as users' preferences over new items may be different in different context.

Subject

Machine learning approaches
Recommender systems
Machine learning

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Conceptualization of a personalized ecoach for wellness promotion

SIGs Conferences People

Search ACM Digital



Martin Gerdes, Santiago Martinez, Dian Tjondronegoro

PervasiveHealth '17: Proceedings of the 11th EAI International Conference on Pervasive Computing Technologies for Healthcare • May 2017, pp 365–374 • <https://doi.org/10.1145/3154862.3154930>

Evidence-based health promotion programs implement clinical practice guidelines built upon results of clinical trials with a definite number of participants, collected during a specific period of time. Wearable technologies allow for continuous ...

A Highlights **Abstract**

A statistical inference model can describe the relation between multidimensional activities and context parameters, the wellness of an individual and a comparable reference group, utilizing machine learning techniques and knowledge from continuous observations of multiple citizens.

Full Text

The analysis of Big Data leads to information and knowledge about the context of the citizen, and allows to provide context-aware healthcare services [26].

Environmental Context (air quality, dust, smog, humidity, a.o.) Social Context (age, family status, ...)

The eCoach observation data over time will be aggregated for an individual and across all patients to improve the machine learning accuracy and to reinforce personalized recommendations.

Keywords

machine learning

2 71




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MMTF-14K: a multifaceted movie trailer feature dataset for recommendation and retrieval

SIGs Conferences People

Search ACM Digital



Yashar Deldjoo,



Mihai Gabriel Constantin,



Bogdan Ionescu,



Markus Schedl,

+ 1

MMSys '18: Proceedings of the 9th ACM Multimedia Systems Conference • June 2018, pp 450–455 • <https://doi.org/10.1145/3204949.3208141>

In this paper we propose a new dataset, *i.e.*, the MMTF-14K multi-faceted dataset. It is primarily designed for the evaluation of video-based recommender systems, but it also supports the exploration of other multimedia tasks such as popularity ...

A Highlights ▾

Abstract

It is primarily designed for the evaluation of video-based recommender systems, but it also supports the exploration of other multimedia tasks such as popularity prediction, genre classification and auto-tagging (aka tag prediction).

Full Text

Section 2 presents a review of previous datasets created in the recommender systems community and positions our contribution.

The dataset is designed to facilitate research on context-aware movie recommender systems (CARS). As a general observation, none of these data come with advanced, precomputed, audio and visual descriptors.

The primary scope of this dataset is to support the development of movie recommender systems, and to the best of our knowledge, this is the first large-scale dataset in the recommender systems community that provides all types of content-based descriptors in conjunction with metadata.

Subject

Recommender systems

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Recommendation Algorithm for Federated User Reviews and Item Reviews

Search ACM Digital



Xingjie Feng,



Yunze Zeng,



Yixiong Xu

AIVR 2018: Proceedings of the 2018 International Conference on Artificial Intelligence and Virtual Reality • November 2018, pp 97

–103 • <https://doi.org/10.1145/3293663.3293667>

The recommendation model based on scoring matrix is widely used. Although it has achieved certain recommendation accuracy, it ignores the large amount of semantic information available in the reviews that reflects the user's interests, and the data ...

A Highlights ▾**Full Text**

CCS Concepts • Information systems→ Recommender systems • Computing methodologies→Neural networks. Keywords Word Vector; Recommendation System; Data Sparsity; Dual Channel; Convolutional Neural Network 1. In previous researches, various recommendation algorithms are discussed and analyzed, such as user similarity recommendation algorithm [2], user implicit factor feedback [3], review text emotion [4–6] and context-aware recommendation system.

This is because the traditional machine learning method is greatly influenced by human factors. The machine learning models based on feature classification are mostly shallow models, and the structure is relatively simple leading to the training data cannot be fully fitted.

Subject

Machine learning

Recommender systems

Machine learning approaches

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Journals Magazines Proceedings Books

The Effect of Privacy Concerns on Privacy Recommenders

SIGs Conferences People

Search ACM Digital



Yuchen Zhao, Juan Ye, Tristan Henderson

IUI '16: Proceedings of the 21st International Conference on Intelligent User Interfaces • March 2016, pp 218

– 227 • <https://doi.org/10.1145/2856767.2856771>

Location-sharing services such as Facebook and Foursquare/Swarm have become increasingly popular, due to the ease at which users can share their locations, and participate in services, games and other applications that leverage these locations. But it ...

Highlights

Full Text

On the other hand, location-privacy preferences are highly context- aware [1]; sharing information depends on where they are and when they are in a certain place.

Recommendations should be context- aware The second effect we find is from the contexts for the recommendations.

IUI 2016 • Recommender Systems March 7–10, 2016, Sonoma, CA, USA 218
 IUI 2016 • Recommender Systems March 7–10, 2016, Sonoma, CA, USA 219
 IUI 2016 • Recommender Systems March 7–10, 2016, Sonoma, CA, USA 220
 IUI 2016 • Recommender Systems March 7–10, 2016, Sonoma, CA, USA 221
 IUI 2016 • Recommender Systems March 7–10, 2016, Sonoma, CA, USA 222
 IUI 2016 • Recommender Systems March 7–10, 2016, Sonoma, CA, USA 223
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 IUI 2016 • Recommender Systems March 7–10, 2016, Sonoma, CA, USA 225
 IUI 2016 • Recommender Systems March 7–10, 2016, Sonoma, CA, USA 226
 IUI 2016 • Recommender Systems March 7–10, 2016, Sonoma, CA, USA 227

Keywords

recommender systems

5 288





RESEARCH-ARTICLE FREE



Journals Magazines Proceedings Books

Prediction of music pairwise preferences from facial expressions

SIGS Conferences People



Marko Tkalčič,



Nima Maleki,



Matevž Pesek,



Mehdi Elahi,



Francesco Ricci, + 1

IUI '19: Proceedings of the 24th International Conference on Intelligent User Interfaces • March 2019, pp 150–159 • <https://doi.org/10.1145/3301275.3302266>

Users of a recommender system may be requested to express their preferences about items either with evaluations of items (e.g. a rating) or with comparisons of item pairs. In this work we focus on the acquisition of pairwise preferences in the music ...

[A](#) Highlights ▾

Abstract

In this work we focus on the acquisition of pairwise preferences in the music domain. Asking the user to explicitly compare music, i.e., which, among two listened tracks, is preferred, requires some user effort.

Our work shows that by introducing a low user effort preference elicitation approach, which, however, requires to access information that may raise potential privacy issues (face expression), one can obtain good prediction accuracy of pairwise music preferences.

Full Text

CCS CONCEPTS • Human-centered computing → Interaction devices; Empirical studies in HCI ; • Computing methodologies → Machine learning. Since our aim in future work is to build a context-aware recommender system for music we have assumed that pairwise comparisons could be a more appropriate preference elicitation mechanism than ratings.

In classical recommender systems the user profiles usually consist of ratings for items. Various privacy-preserving techniques have been devised.

Subject

Machine learning



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RESEARCH-ARTICLE FREE



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Understanding Context for Tasks and Activities

SIGs Conferences People

Search ACM Digital



Ian R. Benetka,



John Krumm,



Paul N. Bennett

CHIIR '19: Proceedings of the 2019 Conference on Human Information Interaction and Retrieval • March 2019, pp 133

–142 • <https://doi.org/10.1145/3295750.3298929>

Human activity is one of the most important pieces of context affecting an individual's information needs. Understanding the relationship between activities, time, location, and other contextual features can improve the quality of various intelligent ...

[A](#) Highlights

Abstract

Understanding the relationship between activities, time, location, and other contextual features can improve the quality of various intelligent systems, including contextual search engines, task managers, digital personal assistants, chat bots, and recommender systems.

Full Text

Understanding the relationship between activities, time, location, and other contextual features can improve the quality of various intelligent systems, including contextual search engines, task managers, digital personal assistants, chat bots, and recommender systems.

Considering their ability to handle large feature spaces with categorical values, we opted for a random forests classifier as the machine learning algorithm of choice.

To conclude, this work provides a significant step toward a probabilistic model of common-sense that enables context-aware systems to reason about the connections between location, time, and natural language descriptions of activity.

Subject

Recommender systems

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Journals Magazines Proceedings Books

Song Recommendation System Using Collaborative Filtering Methods

SIGs Conferences People

Search ACM Digital



Abba Suganda Girsang, Antoni Wibowo, Edwin

ICDTE 2019: Proceedings of the 2019 The 3rd International Conference on Digital Technology in Education • October 2019, pp 160

–162 • <https://doi.org/10.1145/3369199.3369233>

Currently, digital online music increase significantly, both in terms of content and users. Increasing the number of digital music content every month conduce a lot of song catalog data and becoming unstructured and making it difficult for users to ...

[A](#) Highlights ▾**Abstract**

Currently, digital online music increase significantly, both in terms of content and users. Increasing the number of digital music content every month conduce a lot of song catalog data and becoming unstructured and making it difficult for users to choose the songs they want to listen to. To make it easier for users to optimize a large number of subscribed music catalogs, a user-centric music recommendation system is needed that allows users to be able to manage catalogs of digital music content according to their needs. This study examines how to implement song recommendation system using collaborative filtering method in digital online music.

Full Text

CCS Concepts Computing methodologies → Machine learning → Machine learning approaches → Factorization methods → Factor analysis
 Keywords Collaborative filtering; digital music; recommendation; playlist generation. 1. Recently, recommender systems are used to handle real world issues. A large Increase needs of recommender systems because it helps user to finding their own preferences from a huge data over the past few years. A good music recommender system should be personalized and context-aware, in which user's preference can be learned from historical behaviors of music selection and consumption [4].

Subject

Machine learning
 Machine learning approaches



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SIGS Conferences People

Towards Intent-Aware Contextual Music Recommendation: Initial Experiments

Search ACM Digital



Sergey Volokhin,



Eugene Agichtein

SIGIR '18: The 41st International ACM SIGIR Conference on Research & Development in Information Retrieval • June 2018, pp 1045

–1048 • <https://doi.org/10.1145/3209978.3210154>

While activity-aware music recommendation has been shown to improve the listener experience, we posit that modeling the \em listening intent can further improve recommendation quality. In this paper, we perform initial exploration of the dominant music listening intents associated with common activities, using music retrieved from popular online music services. We show that these intents can be approximated through audio features of the music itself, and potentially improve recommendation quality.

A Highlights

Abstract

While activity-aware music recommendation has been shown to improve the listener experience, we posit that modeling the \em listening intent can further improve recommendation quality. In this paper, we perform initial exploration of the dominant music listening intents associated with common activities, using music retrieved from popular online music services. We show that these intents can be approximated through audio features of the music itself, and potentially improve recommendation quality.

Full Text

The most popular music services such as Pandora, Spotify or Last.fm, use, among other algorithms, context aware recommendations, which often include demographic context, user location, type of the device, time of day, and others, to improve recommendation quality. Contextual recommender systems (CARS) have been extensively studied [3, 4], and have been successfully incorporated into state-of-the-art recommendation systems [11, 12].

Furthermore, user intent, especially in recommender systems, is notoriously difficult to automatically infer, and to incorporate into recommendation.

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RESEARCH-ARTICLE FREE



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SherLock vs Moriarty: A Smartphone Dataset for Cybersecurity Research

SIGS Conferences People

Search ACM Digital



Yisroel Mirsky, Asaf Shabtai, Lior Rokach, Bracha Shapira, Yuval Elovici

AISec '16: Proceedings of the 2016 ACM Workshop on Artificial Intelligence and Security • October 2016, pp 1–12 • <https://doi.org/10.1145/2996758.2996764>

In this paper we describe and share with the research community, a significant smartphone dataset obtained from an ongoing long-term data collection experiment. The dataset currently contains 10 billion data records from 30 users collected over a period ...

A Highlights ▾

Full Text

Keywords Smartphone dataset; machine learning; malware; forensics; anomaly detection; continuous authentication. 1.

The dataset can also be used for fields other than security such as social sensing and recommender systems. • We demonstrate how the dataset can be used to analyze malicious behaviors.

For example, context aware recommender systems, event prediction, user personalization and awareness, location prediction, and more.

Keywords

machine learning

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