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Context-Aware Music Recommender Systems for Groups: A Comparative Study

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Abstract: Nowadays, recommender systems are present in multiple application domains, such as e-commerce, digital libraries, music streaming services, etc. In the music domain, these systems are especially useful, since users often like to listen to new songs and discover new bands. At the same time, group music consumption has proliferated in this domain, not just physically, as in the past, but virtually in rooms or messaging groups created for specific purposes, such as studying, training, or meeting friends. Single-user recommender systems are no longer valid in this situation, and group recommender systems are needed to recommend music to groups of users, taking into account their individual preferences and the context of the group (when listening to music). In this paper, a group recommender system in the music domain is proposed, and an extensive comparative study is conducted, involving different collaborative filtering algorithms and aggregation methods.

Keywords: group recommender systems; music recommendation; context-aware recommender systems; collaborative filtering

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Citation: Valera, A.; Lozano Murciego, Á.; Moreno-García, M.N. Context-Aware Music Recommender Systems for Groups: A Comparative Study. *Information* **2021**, *12*, 506. https://doi.org/10.3390/info12120506

Academic Editor: Luis Martínez López

Received: 1 October 2021
Accepted: 5 December 2021
Published: 7 December 2021

Publisher's Note: MDPI stays neutral with regard to jurisdictional claims in published maps and institutional affiliations.

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1. Introduction

Recommender systems (RS) are present today in multiple application domains, such as e-commerce, tourism, television, etc. [1]. Music and audiovisual content, in general, are domains where there is a high demand for these systems, due to the popularization of portable devices and streaming services [1].

Each application area has its own particularities, and the music area is characterized, among other things, by the rapid consumption of items. Consequently, it is difficult to know the ratings explicitly, since users do not stop listening to express them. For this reason, ratings are generally inferred from user behavior. Moreover, the sparsity problem is more important than in other domains, due to the scarcity of ratings and large availability of items in music catalogs.

In this domain, recommender systems for groups acquire great relevance, since music is often listened in company, either by gathering friends for that purpose or while doing another activity, such as training in a gym or working in a library. In contrast, recommendations to groups are not feasible in many other areas where products are used or consumed individually. In addition to music, the main application domains for group recommender systems (GRS) are movies, television, and travel [2]. However, there are differences between these items and music [3]. For example, a song is usually played many times by the same user, while a movie is generally watched only once. Another difference is the number of items consumed in a particular time frame, which is higher for music than for movies and tourist attractions, among other items. These facts influence both the way implicit feedback is obtained from the user and the number and diversity of recommendations.

Moreover, in the music domain, the context of the user also has a great importance on user preferences [4]. Many environment-related contextual factors, such as time, weather, or place, as well as user-related contextual factors, such as, activity or mood, influence

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