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Study of Music Recommendation System Based on Acoustic Features

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Music recommendation systems are the systems that can guess and analyze users' preference. These systems can recommend suitable music for users based on result of analysis. Music infomation that users can obtain is increasing because of development of Internet and dizitizing music infomation. For this reason, users have to pay a lot of time to seek favorite music. To solve this problem, music recommendation systems are required.

Nowadays, there are commercial music recommendation systems. However, these systems cannot recommend musical pieces that have not reviwe by users. In other words, these music recommendation cannot recommend novel music for users.

To solve this problem, this study shows the result of investigation about research about music recommendation systems based on acoustic features.

This study explain the recommendation models such as collaborative filtering, content-based filtering, hybrid filtering, context-aware recommendation, and playlist genelation.

Then, this study investigate and review 10 research about music recommendation system based on acoustic features. Research theme was categorized into grouping based on acoustic features, music recommendation systems based on acoustic features, and hybrid music recommendation system.

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From this review, this study sets the problems to implove music recommendation systems based on acoustic features. The problems are about study musical infomation retreival, study influence of collaborative fillting on hybrid music information, examination appling audio features correspond to ryhthm and pitchs, and evaluation variety of audio features in recommend result. In addition, this study propose applying users' individual infomation and position infomation to music recommendation system for help system analizing users' preference.