

Process for Forming List of Songs Under User's Needs

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Ukrainian people tend to sing songs during any event. That is why we have a common directory, where you can find songs according to your mood.

However, the task to pick a song according to what you have now the mood is sometimes very difficult. It would be convenient to have an intelligent system that could automatically determine the mood of the user and according to his offer next song. Examining the current market of electronic directories song was found that the solution to this problem yet.

For this reason it was decided to make an intelligent system that could determine the mood of the user to determine the mood of the song and in accordance with the results of the analysis to suggest that the next song.

To determine the mood of the song was used analysis of lyrics and chords analysis. The mood is characterized by a positive tone (merry, cheerful, elated) or negative (sad, depressed) and different dynamics.

We know that to determine the mood by text songs can use words and phrases that are commonly used to describe certain type of mood.

For cheerful mood used words like love, happiness, sun, mom.

For depressed mood using words such as sadness, grief, separation, sadness.

Also to determine the mood of the song was used analysis of chords on which the song played. A well-known fact is that funny, cheerful songs to play major chords. In contrast, sad, melancholic songs are played in minor chords. Since all the songs, I have developed a collection of songs with chords, the definition of mood songs on chords has great potential.

To determine the mood of the song are used both. In the basic implementation system was programmed points provided by the song, which can describe her mood. To determine the mood of the user used an algorithm in which the user also has the scale scores and opening the next song, he corrects it.

According to the scale points the user selected the most similar song on their scores and offered to the user.

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