

Title	既存曲に合わせて口ず `さまれる即興歌唱を利用した 音楽創作支援手法に関する研究
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# Research on Music Creation Support Method Using Ad-lib Singing While Listening to Music

Ryu Takchi

School of Knowledge Science,  
Japand Advanced Institute of Science and Technology

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Music is very familiar. People are familiar with music on a daily basis by singing songs and listening to songs. However, it is generally thought that "creating" music is highly difficult. Certainly in creating music, the technique to play various instruments as you want, and the expertise including music theory are very useful. But music is originally more free and casual. In "composing" or "arrangement" which is the foundation of music composition, there is no sure right answer.

Based on this idea, we realize that we are actually doing music creation activities where we are unconscious. An example is an Ad-lib Singing by people at the time of listening to music. When people are listening to music, people sing humming and beat rhythms according to the songs. This is exactly music creation activity. However, these Ad-lib Singing songs disappear quickly, neither being saved nor utilized. This is a waste of creativity.

In this research, we focus on this situation and propose Humming Composer. Humming Composer is a system that preserves Ad-lib Singing at the time of listening to music and makes the saved Ad-lib Singing available for music creation activities. Report on the collected Ad-lib Singing and report on how the collected improvised singing is used through the proposed system.

Ad-lib Singing at the time of listening to music is based on chord progression and rhythm of the original song. Therefore, Ad-lib Singing having a certain regularity can be performed. Also, due to the lack of consciousness of music creation, the freedom of innovation of Ad-lib, anyone can do it casually.

There are many studies to support composing, but as far as the author knows, research that attempts to utilize Ad-lib Singing that is discarded after being produced daily does not exist. By collecting Ad-lib Singing, we aim to make people aware of the musical creativity in themselves and to facilitate participation in music creation.

First of all, four subjects who had experience of instrument performance used the system and collected Ad-lib Singing. Next, while four subjects used the system, I saw how to use Ad-lib Singing.

As a result of the collection experiment, a unique Ad-lib Singing was given to many parts of listening music. As a result of utilization experiments, subjects were surprised at how to apply Ad-lib Singing, compared with Ad-lib Singing by other people on the same song, and so forth. Also, it was confirmed that people who have no composition experience superimpose Ad-lib Singing and trial and error to create new phrases.