Abstract

The rapid growth of the technology makes various field of study to get the benefit from it. Nowadays in the music industry, many applications that can help the productivity of the musicians emerged. That is—of course—attracting the public attention to explore and study about music. That's because technology offers simplicity and usabillity. But, it is not easy to study music. Music has it's own difficulty level. Therefore, it is worth to try to creates an application that can help others to learn how to improvise music.

The application can improvise and building a melodic structure. Users can use their music as an accompaniment to the application and they can adjust this application's paramter to fulfill their preferences. The system will improvise itself and creating music. The improvisation process will be implemented using harmony search algorithm. Then users can enjoy the music created by the improvisation process or just want to study the music.

The result of this experiment stated that the system built using harmony search produced improvisation that acceptable by the respondens form the survey conducted.

Keywords: harmony search, musical improvisation