Abstract

In this paper we present an implementation of karaoke machine for vocal. Karaoke is a form of entertainment in which users sing a song along with recorded music using microphone. In our first step we have successfully designed a karaoke machine in Simulink using subtraction method. After that we have implemented on TMS320C6713 DSP processor in real-time environment. A Simulink model is linked to code composer studio through embedded target and Real Time workshop facility to generate corresponding C code. The generated C code is used for the DSP processor to perform Karaoke Machine.

References

- Jihoon Park, Jungpyo Hong, Kwangki Kim, and Minsoo Hahn &quot;Harmonic elimination structures for Karaoke Mode in Spatial Audio Object Coding Scheme&quot;, ICCE conference, published in 2011
- Wei-Ho Tsai , Hsin-Chieh Lee &quot;An Automated Singing Evaluation Method For
Implementation of Karaoke Machine on the DSK6713 Processor

Karaoke Systems"; ICASSP conference 2011
- Dolly Reney, Dr. Neeta Tripathi "Signal Generation Using TMS320C6713 Processor"; IJCSET, December 2011, Vol 1, Issue 11, 753-756, ISSN-2231-011

Index Terms
Computer Science  Signal Processing

Keywords
Karaoke Machine  TMS320C6713  MATLAB  Simulink