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Abstract
The MPEG-4 (Moving Pictures Experts Group) is one of the most popular researches on the development of audio and video in recent years, such as media communication, Digital Audio Broadcasting (DAB) and multi-media applications, and so forth. Therefore, it is an important technology for low bit-rate multi-media compression standards. The algorithm of speech compression, which consists of two sub-systems, the Harmonic Vector eXcitation Coding (HVXC) and Code Excitation Linear Prediction (CELP), is separated form ISO/IEC MPEG-4 audio compression standards. The bit rate of HVXC can achieve 2kbps for lowest fix-bit-rate mode and 1.2kbps (in average) in the variable-bit-rate mode. It has better coding performance than the standard of ITU-T. An important feature of HVXC is the speed and pitch of decoded sound can be individually changed. This property is an essential characteristic for the applications of speech database. Therefore, this thesis will explicate the algorithm of Harmonic Vector eXciation Coding (HVXC) algorithm in MEPG-4 standard. In order to perform the special technique on playing speech database, the HVXC algorithm is implemented by using windows programming.
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