ABSTRACT
When the hearing-impaired people express themselves by speaking, they could not know if they pronounce correctly because of the blocked feedback. This paper provides a set of visual aid interface to help them. They can "see" the sound via spectrogram, pitch contour and FLASH animation. We hope that the users can get more feedback information with this interface and the auxiliary equipments they already have in hand. By FLASH animation, we can clearly see the pronunciation position of each phone. One can compare the spectrogram and pitch contour of his sound to that of a model sound. Our system allows the user to edit the contents and example sound. Teachers and parents can design the contents base on various demands of different hearing-impaired people. We tested this system with a hearing-impaired person. During the process, the subject received the visual feedback of the phonetic signal and attempted to change the way she pronounced. We can see some improvements through this visual aid.

Keywords: spectrogram、pitch contour、formant、endpoint detection、FLASH animation、FLASH animation