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Design and Evaluation on a Device Using Computer Speech Technology for the Rehabilitation of Subjects with Speech Disorder

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Abstract

The computer speech technology develops up to now, regard personal computer as the platform always and all mostly. Frequent user is all a have no speech disorder, unique few apply in the rehabilitation to speech disorder, even not mention to and is made into device. This plan puts forward a the device is to makes use of chip of the digital signal processing as the core of the platform, and in among them load the computer speech technology, purpose is for the rehabilitation of the speech disorder. Directions of the overall design towards low cost and small-scaled turn the development. On the choice of the components, toward low cost and popularize consideration, this is because want the lasting the development. Current this plan has completed the function that speech command recognizes, and has the valuation of the system of the first step.

Keywords: Speech recognition, Speech synthesis, Augmentative and Alternative Communication, assistive technology

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(Lynch, 1990; Tolley et al,1995; Yacine Bellik, 1997; Yoshinori et al, 2000; 2000; 90; 89; 90; 90;)

(1) (Voice Control):

(2) (Dictation):

(3) (Speaking aid):

(4) (Speech Training):

(assistive technology)

LabVIEW

LabVIEW

RS-232

RS-232

1	69%	67%	68%
2	71%	69%	70%
3	54%	50%	52%
4	71%	69%	70%
			65%

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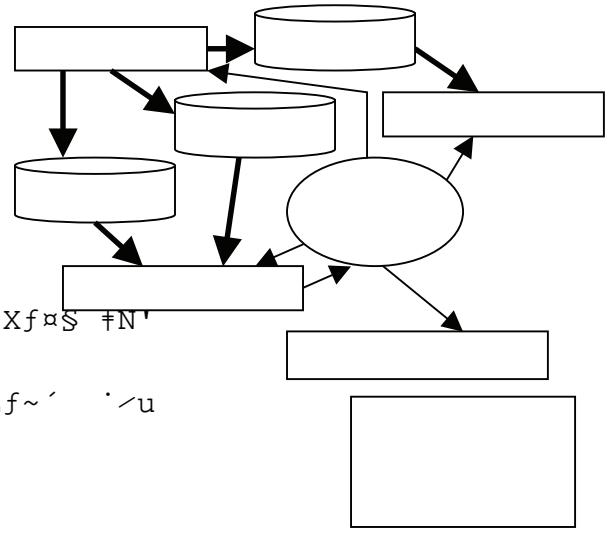

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