

# A study and design of speech recognition by grey relational grade theory

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## ABSTRACT

This paper mainly makes use of grey rational speech recognition to control a wireless brief system and promote the convenience of physical handicapped brief. First, the speech database is recorded and does the pre-processing toward the speech. In addition, the characteristics of speech are derived from Mel spectrum method and act as speech sampling reference. Then, the test speech is identified via grey rational analysis. The cognition result will be formed as a wireless brief shooting control PC in order to complete the wireless brief system. The experiment proves the design of this paper can actually and effectively promote physically handicapped brief efficiency and improve the inconvenience of traditional brief system for the handicapped lecturers.

Keywords : Speech recognition、 wireless brief system、 physical handicapped、 Mel spectrum、 Grey rational

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