

*Design of a voice-interactive reminiscence album*

P-C. TUAN, H-S. KO. **Design of a voice-interactive reminiscence album for older adults.** *Gerontechnology* 2014; 13(2):291; doi:10.4017/gt.2014.13.02.273.00 **Purpose** The purpose of this study is to design a talking life memories album which allows elderly people to plan a 'family culture', that is, a physical album (referred to as an heirloom). When each page in this album is turned, a recorded voice is broadcast that explains the individuals in the photo. With voice interaction information technology, the elderly can leave recordings for future generations about nostalgic photos, and they can also record their memories in their own voice. This will help to preserve family culture, heritage, and life experiences and provide a narrative history and even words of encouragement for future generations. **Method** A light-dependent resistor (LDR) is used as the switch to trigger voice-Interaction<sup>1</sup> on or off. When the LDR is triggered, it automatically searches the corresponding voice zone with microprocessors in real time (*Figure 1*). The MP3 circuit unit has been constructed in the preliminary design of the heirloom system. The experiential context insight method was adopted in this study to facilitate the potential needs of the elderly when they use the proposed design. **Results & Discussion** The proposed heirloom product was evaluated by using the experiential context insight method<sup>2</sup> to analyze the experience behaviors of 12 elderly people. It was found that the elderly were greatly impressed by the voice-interaction concept, and they were interested in having the heirloom product. In addition, most of the test subjects were enthusiastic about the do-it-yourself capacity, which allows them to decide the content of the album themselves. Finally, it is important that the heirloom is designed to be a reliable product.

**References**

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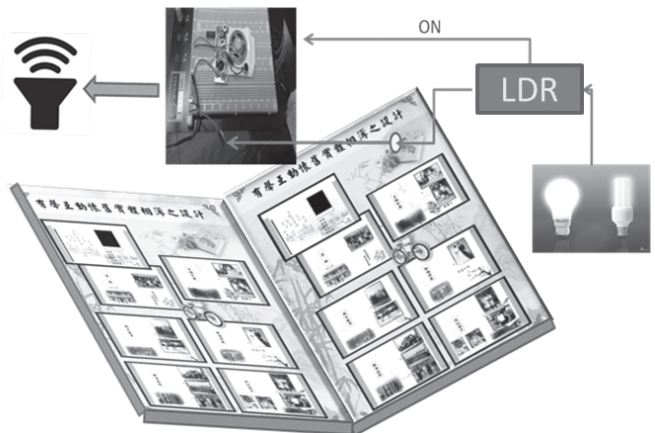


Figure 1. Voice-Interaction album