

### The probe on the intention of use for elders of health improvement system

K.H.C. Wang & H.G. Chen

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**Purpose** Since the technology acceptance model (TAM) proposed by Davis (1989), researches have focused on different aspects of technology acceptance models. In this aged society, it is essential to study the intent of elders using new technology. Previous studies focus on tech products such as cell phones or tablets and have explored the barriers that elders face when using technology products, and divided barriers into physical, psychological, and disability aspects (Gu et al., 2015; Vaportzis et al., 2017). On the other aspect, Khaw (1997) argued that healthy ageing is a multifaceted adaptation of life, including physical, psychological and social health. Based on the concept of healthy aging, this study focuses on the use of the technology product - health improvement system to deliver the physical and mental health of elders and explore the barriers of technology use by older adults. **Method** This study proposed intention a barrier model on technology use for older adults. We examined the barriers and behavioral intention toward Health Improvement System use among older adults in Taiwan and China. The sampling method was applied to conduct a survey with 40 participants who were over 65 years old from Taipei, Taiwan and Fuzhou, China. **Results and Discussion** Results indicated that the physiological obstacles (-0.62,  $t=1.377$ ) and use barriers (-0.335,  $t=1.158$ ) had negative influence, and that mental obstacles (-0.582,  $t=2.055$ ) had a significantly negative influence on their health improvement system behavioral intention of use. Our findings provide the information technology industry with recommendations for the development of technology products for older adults.

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**Address:** Lunghwa University of Science and Technology, Taiwan

**Email:** che@mail.lhu.edu.tw