### 以音樂輔助銀髮族運動與復健之智慧科技創新應用-

## 「銀髮族智能保健之音樂科技研發與應用」

Music Technology in Therapeutic and Health Settings-Implementation of Music on Intelligent and Application to Assist Physical Activity and Rehabilitation in the Elderly

# Yu-Huei Su<sup>1</sup>, Von-Wun Soo<sup>2</sup>, Chuan-Kang Ting<sup>3</sup>, Yi-Wen Liu<sup>4</sup> and Yi-Shin Chen<sup>5</sup>

Department of Music, NTHU

<sup>2</sup>Department of Computer Science, NTHU

<sup>3</sup>Deaprtment of Power Mechanical Engineering, NTHU

<sup>4</sup>Department Electrical Engineering, NTHU

Email:yuhueisu@mx-mail.nthu.edu.tw

We designed a Music Care System (MCS) to incorporate music listening system and physiological data recording for the elderly in a long-term care facility. We started up the NTHU international academic exchanges on music and healthcare: (A). "Music, Neurology and Neuroscience"micro-credit course, the invited speaker Prof.Eckart Altenmüller is the academician of the German Academy of Sciences Göttingen/Vice President of the Hannover University of Music, Drama and Media, Director of the Institute of Music Physiology and Musician Medicine.(B).Host the third International Symposium on Music and Health Promotion, the key note speaker Prof.Bronwen Ackermann, department of biomedical sciences at the University of Sydney School of Medicine and Chairman of the Performing Artists Health Care Association. (C).Inspect the Seattle Pacific University's music therapy program. The practice areas include elderly apartments, special education institutions, hospitals and healthcare settings.

## **Keyword: Music and Healthcare, Music Therapy, Music Technology References**

- (01) M.J.Su, H.S. Chen, Y.C.Chang, **Y.H.Su** \* (2018). Pilot Study of Parkinson's Rehabilitation System with Rhythm Auditory Stimulation. Proceedings d of the Universal Academic Cluster International Summer Conference in Hokkaido,68-77.
- (02) W.Y. Hsu, L.L. Xie, Y.H.Su, M.J.Su, Li Su, M.Z. Chen, H.T. Zhan (2019, Nov). Establishment of a Music Care System for the Elderly in a Long-term Care Facility. The 7th IEEE International Conference on E-Health and Bioengineering, Iasi, Romania. MOST 105-WFA-0-450-739.

### **International Academic Exchanges on Music and Healthcare 2018**





#### **International Academic Exchanges on Music and Healthcare 2019**



