Development and Application of A Bio-Signal Monitoring System for the Elders with Sarcopenia

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• Subproject 1: Development of Integrated Wearable ECG and EMG Sensing System, Ko-Chi Kuo (NSYSU)
• Subproject 2: Integration of Hardware and Software for Bio-Signal Monitoring, Ing-Jer Huang (NSYSU)
• Subproject 3: Development of Smart Neuro-Muscular Function Precision Training System, Lan-Yuen Guo/ Li-Chun Liaw (KMU)
• Subproject 4: A New Approach to Enhance Precision Physical Training Program: The Application of ECG and EMG Feedback System, Wen-Lan Wu (KMU)
Wearable measuring device (Subproject 1)

Analog front-end development (Subproject 1)

Digital back-end and circuit board (Subproject 2)

SoC integration (Subproject 1)

Deep Learning (Subproject 4)

Cloud server (Subproject 2,3,4)

Internet

ECG/heart rate/mood
EMG/Activity/game

Smart phone APP (Subproject 2)

test

equipment test (Subproject 3&4)

Interactive game

Care center (all subproject)