**Schedule of Presentations: Poster Session**

**Rehabilitation Aids/Smart Healthcare/**

**Medical Device Innovation and Commercialization**

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| **Nov. 1 (Friday) 12:30~14:00 1F Lobby of the Dept. Chemistry** |
| **Poster No.** | **Paper No.** | **Presenter** | **Title** |
| PG5-1 | G5-015 | **Shih-Hsiang Lan**Taipei Medical University | The Influence of Extracerebral Tissue on Temporal Interference Stimulation |
| PG5-2 | G5-017 | **Yu-Zhu Liang**National Yang Ming Chiao Tung University | Study on the Application Advantages of Optical Pathological Voice Detection System in Noisy Environments |
| PG5-3 | G5-018 | **Chen-Wen Fang**National Cheng Kung University | Exploring the ability to ride a motorcycle in patients with Alzheimer’s disease, mild cognitive impairment and healthy control. A motorcycle simulation study. |
| PG5-4 | G5-019 | **李冠誼**National Cheng Kung University | Detection of Atrial Fibrillation Using Hidden Regular Irregularity in R-R Intervals from a Short ECG Recording |
| PG5-5 | G5-024 | **Pei-Ching Wu**National Cheng Kung University | Optimal Occupational Practice Solution of Telehealth Platform for Assistive device Implementation |
| PG5-6 | G5-051 | **Ju-Yu Wu**National Chung Hsing University/ National Health Research Institutes | Innovative Application and Outcomes of EMDR Therapy in AI-Integrated Remote Psychotherapy |
| PG5-7 | G5-052 | **Yen-Ting Chen**Southern Taiwan University of Science and Technology | Development and Evaluation of a Functional Exergame for the Elderly |
| PG5-8 | G5-055 | **Ming-Hao Chang**National Cheng Kung University | Developing Information and Communication Technology for older adults: A Case Study on Safety Alarm Systems |
| PG5-9 | G5-056 | **Jian-Yu Lian**National Cheng Kung University | Structured Biomedical Innovation Strategy in Interpretive Structural Modeling |
| PG5-10 | G5-060 | **Hsiao-Feng Chieh**National Cheng Kung University | Development of a Real-Time UR-Robot Mimic Hand Movement System with Dual-camera Tracking Technique |
| PG5-11 | G5-061 | **Chien-Ju Lin**National Cheng Kung University | Development of a Robotic Interface for Upper Limb Rehabilitation |
| PG5-12 | G5-078 | **Chao-Ying Chen**National Taiwan University | Impact of Body Fat Distribution on Standing Balance in Overweight Women in Overweight Female Patients with Degenerative Lumbar Disease |
| PG5-13 | G5-082 | **Hsueh-Chun Lee**National Cheng Kung University | Using Pull-up and Holding Activity (PUHA) Test to Assess Hand Coordination in Gastrointestinal Cancer Patients before Chemotherapy: A Preliminary Study |

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| **Nov. 2 (Saturday) 9:40~11:10 1F Lobby of the Dept. Chemistry** |
| **Poster No.** | **Paper NO.** | **Presenter** | **Title** |
| PG5-1 | G5-002 | **Wei-Ling Chen**Taipei Veterans General Hospital | Feasibility Assessment and Previous Research on Automated Dispensing in NM Class Cleanroom |
| PG5-2 | G5-007 | **En Chuang**Chung Yuan Christian University | A Novel optical probe for Quantitative Assessment of Pressure Ulcers |
| PG5-3 | G5-011 | **Yi-Hsuan Huang**National Cheng Kung University | The development of novel-type micro-plasma devices that meet safety regulations and their application in academic clinical trials for wound treatment |
| PG5-4 | G5-013 | **Ya-Ting Lin**National Yang Ming Chiao Tung University | Exploring the Acoustic Effects of Individual Ear Canal Structures on OTC Hearing Aids |
| PG5-5 | G5-022 | **Yota Fukai**Teikyo university, Japan | Study on the Shape of Shielding in Dosimeters for Gamma Ray Measurement |
| PG5-6 | G5-023 | **林摯鈞**義守大學 | 提供轉速增量課程的運動遊戲物聯網健身車可增加老年人敏捷性 |
| PG5-7 | G5-035 | **Chien-Hua Lin**National Sun Yat-sen University | Application of EEG in Observing Impulse Inhibition for AI-Assisted Cognitive Assessment of Patients with Internet Addiction and Comorbid ADHD |
| PG5-8 | G5-054 | **Meng-Hsuan Li**National Cheng Kung University | Challenges and Pathways for Open Innovation in the Medical Device Industry: A Crossfield Approach Using ISM |
| PG5-9 | G5-064 | **吳杰威**長庚大學 | 結合沈浸式科技與機器手臂在整形顯微手術之應用 |
| PG5-10 | G5-066 | **Chia-Wei Chang**National Applied Research Laboratories | Development of automatic drug susceptibility detection and analysis platform for clinical anaerobic bacteria |
| PG5-11 | G5-068 | **Sen-Yung Liu**National Cheng Kung University | 自動撥開眼皮暨量測瞳孔的眼罩 |
| PG5-12 | G5-074 | **Chung-Yu Lai**Hungkuang University | Develop of a clinical information on medical equipment with automatic backup |
| PG5-13 | G5-076 | **黃子平**國立中山大學 | 探討睡眠品質及焦慮狀態對個人化腦波情緒模型建構之影響 |

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| **Nov. 2 (Saturday) 14:10~15:40 1F Lobby of the Dept. Chemical** |
| **Poster No.** | **Paper No.** | **Presenter** | **Title** |
| PG5-1 | G5-009 | **Chien-Wen Lai**National Health Research Institutes | Object cognition and locomotor activities of rats after repetitive transcranial magnetic stimulation with a three-axis coil |
| PG5-2 | G5-010 | **Chi Lee**National Health Research Institutes | Evaluating 3-Axis Magnetic Coils for Targeted Rat Brain Stimulation in Transcranial Magnetic Therapy |
| PG5-3 | G5-012 | **Pin-chen Chen**National Yang Ming Chiao Tung University | Enhancing the Parameter Adjustment Efficiency of Active Noise Cancellation Systems Using Deep Learning Technology |
| PG5-4 | G5-016 | **鄭凱中**國立陽明交通大學 | 開發與評估減少膝關節壓力之髖膝護具 |
| PG5-5 | G5-029 | **Yu-Hung Tsai**National Chung Hsing University | Stress Classification of Athletes Using EEG Signals Based on Convolutional Neural Network |
| PG5-6 | G5-031 | **Zhu-Hsiang Huang**National Chung Cheng University | Analysis of The Physically Challenged Human Gait with Skeleton Tracking |
| PG5-7 | G5-032 | **廖崧揚**中原大學 | 結合WiFi通道狀態訊息和注意力增強型長短期記憶網路的人體動作識別系統 |
| PG5-8 | G5-039 | **Yao-Wei Yeh**National Cheng Kung University | Development of a Collaborative Irradiation System for Microorganisms Based on Photodynamic Sterilization Combined with Ultraviolet |
| PG5-9 | G5-040 | **Yu-Hao Huang**National Yang Ming Chiao Tung University | 3D Gait Trajectory Tracking Using Inertial Measurement Unit |
| PG5-10 | G5-042 | **Yu-Ching Tseng**National Health Research Institutes | Evaluating the Impact of Virtual Reality Interactive Games on Physical Fitness and Quality of Life in Community-Dwelling Older Adults: A Preliminary Study |
| PG5-11 | G5-043 | **Kanata Yatsuda**Chiba University, Japan | Impact of Deep Brain Target Shape Approximation on Electrode Optimization in Transcranial Interference Stimulation |
| PG5-12 | G5-057 | **黃信雄**國立成功大學 | Investigating the Factors Influencing the Design of Fall Detection Applications |
| PG5-13 | G5-067 | **Hui-Wen Deng**Chung Yuan Christian University | Effect of Home-Based Speech Therapy on Swallowing Function Improvement in Parkinson's Disease Patients |
| PG5-14 | G5-075 | **Hung Yi Cheng**Chung Yuan Christian University | Design and Usability Study of an Anxiety Management System Based on Mindfulness Breathing Training |

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| **Nov. 3 (Sunday) 10:10~11:20 1F Lobby of the Dept. Chemical** |
| **Poster No.** | **Paper No.** | **Presenter** | **Title** |
| PG5-1 | G5-001 | **Yu-Tsang Hsieh**China Medical University | Prototype design of new lever-driven wheelchair mechanism |
| PG5-2 | G5-014 | **Yu-Xuan Liu**HungKuang University | Kinematic analysis of upper limb joints in stroke patients using arm support device |
| PG5-3 | G5-025 | **曹祖源**國立成功大學 | 智能行動外骨骼輔具之人體意圖與步行狀態檢測 |
| PG5-4 | G5-026 | **Shion Kano**Teikyo University, Japan | Evaluation methods and shielding effectiveness of scatter radiation protective powder |
| PG5-5 | G5-027 | **蕭釧原**國立陽明交通大學 | 使用注射式泵浦結合壓力差導引椎體成形術對磷酸鈣骨水泥複合材料進行灌注研究 |
| PG5-6 | G5-044 | **Tso-Chun Yeh**National Yang Ming Chiao Tung University | IMU-based Fukuda Stepping Test for Postural Stability Assessment in Patient with Vestibular Dysfunction |
| PG5-7 | G5-046 | **Feng-Hsu Hsu**Chung Yuan Christian University | Feasibility Analysis of Using Virtual Reality for Field of View Inspection |
| PG5-8 | G5-049 | **Cheng-Han Ho**Chung Yuan Christian University | Event Sound Reminder Assistive system |
| PG5-9 | G5-050 | **Yun-Chi Chuang**National Yang Ming Chiao Tung University | Optimizing the Number and Placement of Wearable IMU Sensors for Subtask Segmentation of Timed Up and Go Test |
| PG5-10 | G5-070 | **鄭智隆**義守大學 | 基於熱成像技術之頭薦骨調理對鬆緩背脊肌肉效能之驗證 |
| PG5-11 | G5-071 | **郭兆洋**銘傳大學 | 自製光療裝置結合App應用於肥胖指標之研發 |
| PG5-12 | G5-072 | **Chung-Yu Lai**Hungkuang University | Development of sleep blood oxygen continuous monitoring and information platform |
| PG5-13 | G5-073 | **Shih-Min Huang**National Central University | A Flexible Healthcare Wearable Design Based on Metal-Free Perovskites |