**Schedule of Presentations: Oral Session**

**Rehabilitation Aids/Smart Healthcare/**

**Medical Device Innovation and Commercialization**

|  |
| --- |
| **Nov. 1 (Friday) 15:10 – 16 :30 3F Room 36308** **Chair：Prof. Yuan-Pin Lin 林遠彬教授**(Institute of Medical Science and Technology, National Sun Yat-sen University) |
| **Paper NO.** | **Presenter** | **Title** |
| G5-077 | **Kuel-Fu Yu**National Cheng Kung University | Multimodal Deep Learning System For Predicting Aphasia Severity: Integrating Acoustic, Gesture, Mouth Movement, And Textual Features |
| G5-033 | **蔡亞峻**National Taiwan University | 內皮細胞施以剪切應力於血管晶片模擬缺血性腦中風模型 |
| G5-063 | **Ho-Yuan Fang**National Sun Yat-sen University | The Effects Of Remote Dual-Task Training On Motor And Cognitive Functions In Patients With Parkinson's Disease |
| G5-080 | **I-Hua Huang**National Cheng Kung University | Development Of An AI-Enhanced Monitoring Device Of Peripheral Arterial Disease Evaluation For Elderly Homecare |
| G5-079 | **Hung-Ta Lai**National Yang Ming Chiao Tung University | Gait Assistance Using Hip Exoskeleton With Distributed Distributional Deep Deterministic Policy Gradient Algorithm |
| G5-004 | **Thad Jacob Tiong**National Chin Yi University of Technology | Ferrofluid-Based Pulse Tactile Palpation Trainer For Arrhythmia Detection |

|  |
| --- |
| **Nov. 2 (Saturday) 11:10 – 12 :30 1F Room 36104****Chair：Prof. Jung-Chih Chen 陳榮治教授**(Institute of Biomedical Engineering, National Yang Ming Chiao Tung University) |
| **Paper NO.** | **Presenter** | **Title** |
| G5-036 | **Yi-Hsuan Hsieh**National Sun Yat-sen University | Investigation Of Aper.Iodic EEG And Machine Learning-Assisted Assessment In Autism Spectrum Disorder |
| G5-053 | **Yu-Tsen Cheng**National Cheng Kung University | Barriers To Adopting Continuous Monitoring Digital Diagnostic Systems In Healthcare: A Case Study Of Smart Wound Care Solutions |
| G5-037 | **Shih-Nan Chang**National Cheng Kung University | Structured The Key Obstacles Of Medtech Innovation Using ISM Model |
| G5-038 | **曾睦勛**國立成功大學 | 基於立法分析探討遠距離醫療之影響因素：以台灣為例 |
| G5-081 | **Feng-Min Lai**National Yunlin University of Science & Technology | 具可變形及移位電動接駁椅的法規認證與臨床檢測 |
| G5-006 | **吳帛諺**Chaoyang University of Technology | Using Mechanic Learning Model For Evaluating Muscle Activity With Mechanomyography |

|  |
| --- |
| **Nov. 2 (Saturday) 15:40 – 17 :30 1F Room 36104****Chair：Prof.** **Jia-Jin Chen 陳家進教授**(Department of Biomedical Engineering, National Cheng Kung University) |
| **Paper NO.** | **Presenter** | **Title** |
| G5-034 | **Jun Sen Chen**National Taiwan University | Arrhythmia Detection Using Deep Convolutional Neural Network Based on Electrocardiogram and Photoplethysmography Signals |
| G5-069  | **Jiun-Hung Lin**National Kaohsiung University of Science and Technology | Design And Performance Evaluation Of A Suction-Based Knee Joint Auscultation System With Constant Pressure Control Mechanism |
| G5-062 | **Ying-Jhen Su**National Sun Yat-sen University | Development And Verification Of A LEGO-Like Functional Near-Infrared Spectroscopy Headset |
| G5-059 | **Xiao-Fan Lin**Chung Yuan Christian University | Introduction To The Prediction Process Of Mobile Application Connected To Digital Portable Plantar Pressure Insoles |
| G5-065 | **Jose Gomez-Tames**Chiba University, Japan | A Study On Efficient Non-Invasive Peripheral Magnetic Stimulation |
| G5-041 | **Thanita SANGHAN**Prince of Songkla University, Thailand | Comparative Analysis Of Muscle Activity And Gait Asymmetry In Stroke Patients And Healthy Individuals Using Electromyography |

|  |
| --- |
| **Nov. 3 (Sunday)** **11:20~12:40 1F Room 36104****Chair：Prof. Hung-Yi Lin** **林宏益教授**(Department of Electrical Engineering, National University of Kaohsiung) |
| **Paper NO.** | **Presenter** | **Title** |
| G5-030 | **Che-Chi Liao**Kaohsiung Medical University | Effects Of Cupping Therapy On Shoulder Fatigue Recovery And Sports Performance In Baseball Pitchers |
| G5-048  | **李莛蓉**中原大學 | 機器學習應用於中風等級評估：主動與被動運動方式之比較 |
| G5-047 | **Hoang Thuc Minh Vo**National Cheng Kung University | A Prototype Of Thumb Robotic Rehabilitation System |
| G5-045 | **Zhi-Wei Zheng**Ming Chuan University | Electromyography Based Swallowing Function Assessment |
| G5-003 | **I-Hsiang Lin**National Chung Hsing University | The Efficacy Of Oxygen Therapy In Activating Air By Single Oxygen Atom Breathing |