**Schedule of Presentations: Poster Session**

**Biomedical Informatic / Biomedical Imaging**

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| **Nov. 1 (Friday) 12:30~14:00 1F Lobby of the Dept. Chemistry** |
| **Poster No.** | **Paper No.** | **Presenter** | **Title** |
| PG3-1 | G3-012 | **Chao-Hsin Ding**National Yang Ming Chiao Tung University, Taiwan | Utilizing Diffusion Models to Evaluate Brain Glymphatic Function Through Perivascular Space Enlargement Analysis |
| PG3-2 | G3-015 | **Pei-Yu Su**National Yang Ming Chiao Tung University, Taiwan | 機器學習輔助MRI分析在頸椎後縱韌帶骨化診斷的創新應用 |
| PG3-3 | G3-028 | **Pang Hao Chou**National Cheng Kung University, Taiwan | Texture Feature-Based Approaches for Multi-Class Classification in Breast Ultrasound |
| PG3-4 | G3-029 | **Chao-Yu Pin**National Yang Ming Chiao Tung University, Taiwan | Comparing Deep Learning And Traditional Feature Extraction Methods For Intelligent Optical Bone Densitometry |
| PG3-5 | G3-031 | **Clara Lavita Angelina**National Yunlin University of Science and Technology, Taiwan | Equivariant Deep Learning for Robust Brain Tumor Segmentation |
| PG3-6 | G3-042 | **Jun Ming Bai**National Yang Ming Chiao Tung University, Taiwan | Ensemble Models and Graphical User Interface Integration with Optical Coherence Tomography for Dental Calculus Detection |
| PG3-7 | G3-044 | **Ching-Yao Lu**National Yang Ming Chiao Tung University, Taiwan | Deep-learning Ultrasound Vector Flow Imaging |
| PG3-8 | G3-054 | **Wen-Chen Huang**National Yang Ming Chiao Tung University | A Denoising Autoencoder for IMU-based Human Activity Recognition. |
| PG3-9 | G3-055 | **Chiao-Yi Cheng**National Central University, Taiwan | Detecting R-wave in Electrocardiograms with a 2D Image based Deep Learning Approach |
| PG3-10 | G3-062 | **Tzu-Ping Cho**National Cheng Kung University, Taiwan | Accelerating Myocardial Infarction Detection in 12-Lead ECG Using Continuous Wavelet Transform and Convolutional Neural Networks Optimized with TensorRT |
| PG3-11 | G3-065 | **Kazuki Sone**Tohoku University, Japan | Microfluidic platform for reproduction of extravasation of circulating tumor microemboli |
| PG3-12 | G3-066 | **Tzu-Han Lin**National Yang Ming Chiao Tung University, Taiwan | Toothbrushing Region Identification Using Machine Learning Models for Brushing Monitoring |
| PG3-13 | G3-069 | **Chun-Tai Chena**China Medical University, Taiwan | Comparative Analysis of Multi-Angle Compound Imaging Techniques in Ultrasound: Beam Scanning versus Plane Wave Imaging |
| **Poster No.** | **Paper No.** | **Presenter** | **Title** |
| PG3-14 | G3-087 | **Hsin-Tzu Huang**National Tsing Hua University, Taiwan | 基於深度學習技術之低 b-value/高 b-value 擴散權重影像轉換生成研究 |
| PG3-15 | G3-089 | **Lalitha Palanivelu**Taipei Medical University, Taiwan | Characterizing Neurobiological and Metabolic Alterations in a VPA-induced Rat Model of Autism Spectrum Disorder Through Diffusion Tensor Imaging and Gut Microbiota Profiling |
| PG3-16 | G3-094 | **Hsin-Ju Hsu**Chung Yuan Christian University, Taiwan | Deep Learning Applied To Development Of Vocal Cord Detection System For Video Laryngoscopy |

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| **Nov. 2 (Saturday) 9:40~11:10 1F Lobby of the Dept. Chemistry** |
| **Poster No.** | **Paper No.** | **Presenter** | **Title** |
| PG3-1 | G3-013 | **Han-Lin Tsai**Feng Chia University, Taiwan | 糖尿病患在過度換氣下非線性腦血流調控的性別差異分析 |
| PG3-2 | G3-014 | **沈家汝****逢甲大學** | 姿勢性直立心搏過速症在過度換氣下非線性腦血流調控的性別差異分析 |
| PG3-3 | G3-016 | **黃品焱**National Taiwan University of Science and Technology, Taiwan | 基於注意力機制的深度學習模型檢測 COVID-19 相關肺炎 |
| PG3-4 | G3-017 | **Chia-Yu Lin**China Medical University, Taiwan | 3D CT Imaging Assessment and Correlation Analysis of of Maxillary Sinus Internal Morphology for Sinus Membrane Perforation in Maxillary Sinus Floor Elevation Surgery |
| PG3-5 | G3-020 | **吳玫萱**China Medical University, Taiwan | 利用錐狀射束電腦斷層掃描影像評估顴骨植體手術 |
| PG3-6 | G3-025 | **Ting-Hsuan Wu**China Medical University, Taiwan | Assessment of accessory branches of canalis sinuous and distribution in the Chinese Population Using Cone Beam Computed Tomography in Dentistry |
| PG3-7 | G3-037 | **Yu Chen Tu**National Yang Ming Chiao Tung University, Taiwan | A Diffusion Model-Based Data Augmentation Method for Human Activity Recognition Using Inertial Sensor |
| PG3-8 | G3-043 | **Li-Hsiang Liu**National Yang Ming Chiao Tung University, Taiwan | A study on global longitudinal strain with few-shot learning applied in Optical Coherence Tomography angiography |
| PG3-9 | G3-045 | **Ching Hsuan Wu**National Cheng Kung University, Taiwan | Deep learning pipeline for DIC microscope Image processing of the spheroid invasion-on-chip |
| PG3-10 | G3-046 | **Yu-Chieh Wang**National Tsing Hua University, Taiwan | Radiomics analysis of Cardiac Magnetic Resonance Image in Patients with Fontan Circulation. |
| **Poster No.** | **Paper No.** | **Presenter** | **Title** |
| PG3-11 | G3-048 | **Chen-Fu Hung**Kaohsiung Medical University, Taiwan | Utilizing Jaw Movement Analysis for Early Detection of Swallowing Difficulties in the Elderly. |
| PG3-12 | G3-050 | **Fang-Yu Lin**National Cheng Kung University, Taiwan | The mechanism of hypoxia-regulated sprouting angiogenesis induced by aging and hypertrophy of the ligamentum flavum |
| PG3-13 | G3-052 | **Wang Jia-Jung**I-Shou University, Taiwan | Identification of Arteriovenous Access Patency Using the Multiple-Channel AI Model |
| PG3-14 | G3-058 | **Hsian-Min Chen**Taichung Veterans General Hospital, Taiwan | Optimization of Kernel Least Square Orthogonal Subspace Projection Parameters for Enhanced Prediction and Diagnosis of Diabetic Small Fiber Neuropathy |
| PG3-15 | G3-071 | **Kuan-Yun Wang**National Yang Ming Chiao Tung University, Taiwan | Real-time in Vivo Vasculature Imaging Using an LED-based Photoacoustic System |
| PG3-16 | G3-083 | **Hsien-Jung Chan**Chang Gung University, Taiwan | Nakagami Imaging Combined with Pulse Inversion for Localizing of HIFU Therapy |

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| **Nov. 2 (Saturday) 14:10~15:40 1F Lobby of the Dept. Chemical** |
| **Poster No.** | **Paper No.** | **Presenter** | **Title** |
| PG3-1 | G3-033 | **Yi-Chieh Wang**Chung Yuan Christian University, Taiwan | Computer-Aided Detection of Acute Ischemic Stroke on Computed Tomography Images |
| PG3-2 | G3-034 | **Zi-Chao Leng**National Cheng Kung University, Taiwan | Evaluation of Cell Nuclei in Spheroids Using SENSE: A Method Combining Fluorescence Calibration and Supervoxel Segmentation Techniques |
| PG3-3 | G3-035 | **Yin-Hsu Chen**National Tsing Hua University, Taiwan | Enhancing Deep Learning Segmentation of Whole Mouse Brain Blood Vessels in Microscopy Images Through Data pre-processing |
| PG3-4 | G3-036 | **Pei-Shan Wang**China Medical University, Taiwan | SAM-Med3D Model Optimization with Tow-stage Prompt fine-tuning for Enhanced iNPH Segmentation |
| PG3-5 | G3-038 | **Chung-Lin Wang**National Cheng Kung University, Taiwan | Local pulse wave velocity measurements using the area-flow method with a novel T-shaped ultrasound transducer |
| PG3-6 | G3-039 | **Ting-An Chang**National Yunlin University of Science and Technology, Taiwan | Robust Alzheimer's Disease Prediction Using ResNet-50 Model From Brain Magnetic Resonance Imaging |
| PG3-7 | G3-040 | **Tzu-Chun Lin**National Cheng Kung University, Taiwan | Investigating the Impact of Mitral Regurgitation on Natural Shear Waves in a Murine Model |
| **Poster No.** | **Paper No.** | **Presenter** | **Title** |
| PG3-8 | G3-047 | **Xiang-Ting Wang**National Cheng Kung University, Taiwan | The potential of super resolution imaging for studying vascular development based on zebrafish model |
| PG3-9 | G3-049 | **Yen-Fang Huang**National Tsing Hua University, Taiwan | Radiomics Analysis for differentiating Fabry Disease from Hypertrophy Cardiomyopathy by Cardiac Magnetic Resonance images |
| PG3-10 | G3-063 | **Wei-Cheng Hsiao**Chang Gung University, Taiwan | High Intensity Focused Ultrasound-Induced Stiffness Change Estimation in Porcine Liver Using Pulse-Inversion Shear Wave Elastography (PI-SWE) |
| PG3-11 | G3-070 | **Fang-Rong Hsu**Feng Chia University, Taiwan | Deep Learning-Based Biliary Atresia Classification in Neonatal Ultrasound Images |
| PG3-12 | G3-074 | **Chih-Chien Tsai**Chang Gung University, Taiwan | White Matter Alteration in the Brain of Patients with Parkinson Disease: Effect from Comorbidity of Diabetes Mellitus |
| PG3-13 | G3-075 | **Zi-Wen Kao**National Taiwan University, Taiwan | Development of Multi-view Optical Coherence Tomography (OCT) and Image Registration Algorithm with Refractive Index Correction for Tooth Imaging |
| PG3-14 | G3-085 | **李柏叡**Chang Gung University, Taiwan | Validation of Self-developed Ultrasound Shear Wave Elastography |
| PG3-15 | G3-086 | **Chia-Wei Wang**National Yang Ming Chiao Tung University, Taiwan | Innovation of Fully Automatic Cone-beam X-ray Excited Luminescence Computed Tomography (CB-XLCT) System |
| PG3-16 | G3-088 | **Hung Ching-Chieh**National Taiwan University, Taiwan | A Deep Learning-Based Model for Identifying Adult and Infant Bowel Sounds |

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| **Nov. 3 (Sunday) 10:10~11:20 1F Lobby of the Dept. Chemical** |
| **Poster No.** | **Paper No.** | **Presenter** | **Title** |
| PG3-1 | G3-002 | **Pingchia Cheng**National Yang Ming Chiao Tung University, Taiwan | A Web Application for Salivary Gland Tumor Detection and Classification Using Deep Learning |
| PG3-2 | G3-003 | **Li-Sheng Chung**E-DA Hospital, Taiwan | Enhanced Cerebral Stroke Segmentation in Brain CT Using Fully Convolutional Networks |
| PG3-3 | G3-004 | **林雨葳**國立陽明交通大學 | 探討小纖維神經病變的大腦功能性連結異常 |
| PG3-4 | G3-006 | **Yu-Min Huang**National Yang Ming Chiao Tung University, Taiwan | Whole Breast Handheld Ultrasound Standardized Scanning with Computer-Aided Detection |
| **Poster No.** | **Paper No.** | **Presenter** | **Title** |
| PG3-5 | G3-007 | **Chao Chi Chen**E DA Cancer Hospital, Taiwan | Comprehensive Brain Tumor Classification Using Composite CNNs and Varied MRI Imaging Sequences |
| PG3-6 | G3-008 | **Che-Cheng Chang**E-DA Hospital, Taiwan | AI-Based Segmentation for Accurate LVEF Measurement in Cardiac CT Imaging |
| PG3-7 | G3-009 | **Ling-Ju Chen**China Medical University, Taiwan | Evaluation of the Mandibular Condylar Morphology |
| PG3-8 | G3-010 | **Mizuki Sato**Teikyo University, Japan | Detection of Proximal Femur on Dual-Energy Subtraction Tomosynthesis Using to Yolo Network |
| PG3-9 | G3-011 | **Koharu Kimura**Teikyo University, Japan | Application of Structural Similarity Index for cGAN Using a Tomosynthesis Reconstruction Images. |
| PG3-10 | G3-022 | **楊子慶**童綜合醫療社團法人童綜合醫院 | 利用CNN演算法來設計肺結核X光影像的自動判讀模型 |
| PG3-11 | G3-056 | **Tzu Hao Hung**Feng Chia University, Taiwan | Multi-Site Fracture Detection Based on Deep Learning |
| PG3-12 | G3-059 | **Wun-Chan Yu**Taipei Veterans General Hospital, Taiwan | 3D列印解剖模型用於骨科手術 |
| PG3-13 | G3-060 | **Mu-Ting Wang**National Cheng Kung University, Taiwan | Feasibility of a Novel Ultrasonographical Guiding System for Assessing Anatomical Structures of Human Hand |
| PG3-14 | G3-081 | **Shiuan-Hui Wang**China Medical University, Taiwan | Comparison of 2D and 3D ROI Methods for Cancellous Bone Density Measurement in Dental CBCT |
| PG3-15 | G3-091 | **De-Quan Chen**National Cheng Kung University, Taiwan | Evaluating Neoadjuvant Chemo Response in Pancreatic Cancer Using Combined Endoscopic Ultrasound and Ultrasound Localization Microscopy |
| PG3-16 | G3-092 | **Po-Yang Lee**National Cheng Kung University, Taiwan | Enhanced Imaging Resolution through CNN-Based Signal Decomposition in Synthetic Aperture Transmit Systems |
| PG4-17 | G3-095 | **范城瑋** 國立成功大學 | A Fast Unsupervised Small-Data-Driven Neuroimaging Algorithm for Detection of Alzheimer's Disease |