

Section I (10:20-11:50)	
Artificial Intelligence in Biomedical Engineering and Applications	
B-001	Translational Multimodal Biosensing Platform for Clinical Affective Monitoring Based on Physiological Signals and Dual-Modality Facial Imaging
B-003	An Application Study of Non-contact Optical Sensing in Deep Learning-based Voice Pathology Detection
B-008	AI-driven process-tolerant BioFET sensing model for precise biliary atresia diagnosis of infants with a single drop of blood
B-010	Deep learning-assisted cytopathological analysis for assessing tumor content of endobronchial ultrasound bronchoscopy-guided lung biopsy



Section II (14:00-15:20)	
Artificial Intelligence in Biomedical Engineering and Applications	
B-014	Machine Learning-driven Gait-assisted Self-powered Wearable Sensing System for Advanced Healthcare Monitoring
B-015	Quantitative Assessment of Training Load and Fatigue Using Multi-Channel PPG and Deep Feature Learning
B-016	Simulation of the Cortical-Basal Ganglia-Thalamic Loop and Generative Adversarial Network-based Neural Signal Translation for Adaptive Deep Brain Stimulation in Parkinson's Disease
B-017	Integration of Multi Point Tongue Pressure Analysis and AI-Driven Intraoral Tongue Localization for Oral Phase Dysphagia Assessment
B-018	A Novel Robotic Ultrasound System with Hybrid AI Model for DOS Assessment in AVF in Hemodialysis Patients



Section III (15:40–17:00)	
Artificial Intelligence in Biomedical Engineering and Applications	
B-025	Multispectral Generation Based on Proximal Policy Optimization for Photobiomodulation Therapy
B-027	ARDScope: A Multimodal Deep Learning Platform for Mortality and Fibrosis Prediction in Acute Respiratory Distress Syndrome
B-028	CTS-ContextNet: A Spatio-Temporal Context-Aware Network for Automatic CTS Diagnosis from Ultrasound Imaging
B-030	Brain Structural-Functional Coupling Classifies Age
B-032	Intelligent Triboelectric Wearable Belt with Integrated AI for Continuous Respiration Monitoring



Section IV (09:50–11:30)	
Artificial Intelligence in Biomedical Engineering and Applications	
B-034	Speech-Based Parkinson's Disease Screening Using Propensity Score-Adjusted SVM and Acoustic Feature Optimization
B-037	Vessel-BloomSeg: A Vessel Feature-aware Deep Segmentation Network to Overcome Blooming Artifacts in Coronary CT Angiography
B-038	Multi-channel Rotational Electric Field Repetitive Transcranial Magnetic Stimulation (rTMS) with Integrated GAI for decision-making
B-039	Integration of an Economical, Deployable Intelligent Digital Droplet Sensing Device with Raspberry Pi-based YOLOv11 for Rapid Droplet Recognition to Detect Biomarker Gene Changes of Traumatic Brain Injury

