2022 年 12 月 16 日
財團法人張榮發基金會 1007

Medical Electronics

Time	Speaker	Topic	Affiliation
08:30~09:00	Pei-Yi Lin	Bedside cerebral physiology monitoring in neonatal neurocritical care	Pediatrics at Harvard Medical School
09:00~09:15 (250163)	Ying-Yu Chen[1*] Nan-Yu Cheng[2] Shih-Yu Tzeng[1] Ming-Chein Fang[1] Sheng-Hao Tseng[1]	Quantification of Neonatal Bilirubin and Hemoglobin Concentrations with a Miniaturized DRS Handheld Device	[1]Department of Photonics, National Cheng-Kung University, [2]Department of Health-Business Administration, Fooyin University
09:15~09:30 (250165)	Jia-Jung Wang[*1] Hangliang Zhang[1] Thung-Lip Lee[2]	Prediction of Vascular Access Stenosis from Phonoangiogram Signals Using the VGG16 and VGG19 Models	[1]Department of Biomedical Engineering, I-Shou University [2]Department of Cardiology, E-Da Hospital
09:30~09:45 (250179)	Chia-Hsuan Chang[1,2] Jung-Chih Chen[3] Gin-Shin Chen[*2,3]	Ultrasonic Acupuncture Lowers Blood Glucose	[1]Graduate Degree Program of College of Electrical and Computer Engineering, National Yang Ming Chiao Tung University [2]Institute of Biomedical Engineering and Nanomedicine, National Health Research Institutes [3]Institute of Biomedical Engineering, National Yang Ming Chiao Tung University
09:45~10:00 (250245)	Yu-Ting Wei Shu-Ping Lin	Extended-Gate Field-Effect Transistor with an Indium Tin Oxide-Coated Vertically Aligned Silicon Nanowires for the Detection of Cortisol	Graduate Institute of Biomedical Engineering, National Chung Hsing University
10:00~10:20	Coffee Break		
10:20~10:50	Hau-Tieng Wu	Turning nonstationary biomedical signals into useful clinical information using modern signal processing	Department of Mathematics, Duke University
10:50~11:05 (250304)	Shih-Yang Hung[1] Cheng-Bin Xu[1] Yi-Chun Du[*,1,2]	Development of a 6-axis RUS for AVF Stenosis Assessment	[1]Department of Biomedical Engineering, National Cheng Kung University [2]Medical Device Innovation Center, National Cheng Kung University
11:05~11:20 (250360)	Neil Adrian P. Ondevilla Peng-Wen Liu Hsien-Chang Chang[*]	Rapid and sensitive electrochemical biosensor for the detection of TNF-α	Department of Biomedical Engineering, National Cheng Kung University

11:20~11:35 (250403)	Moumita Deb[1] Mei-Yu Chen[2] Po-Yi Chang[1,3,4] Pin-Hsuan Li[1] Ming-Jen Chan[5,6,7] Ya-Chung Tian[5,6] Ping-Hung Yeh[2] Olivier Soppera[3,4*] Hsiao-Wen Zan[1*]	Ultra-sensitive respiration detection mask with low cost SnO2sensors	[1]Department of Photonics, College of Electrical and Computer Engineering, National Yang Ming Chiao Tung University [2]Department of Physics, Tamkang University [3]Université de Haute-Alsace, CNRS, IS2M UMR 7361, F-68100 Mulhouse, France [4]Université de Strasbourg, France [5]Department of Medicine, Chang Gung University [6]Kidney Research Center and Department of Nephrology, Linkou Chang Gung Memorial Hospital [7]Graduate Institute of Clinical Medical Science, College of Medicine, Chang Gung University
11:35~11:50 (250414)	Huai-Hsuan Shao[1] Ta-Chung Liu[1] Ting-Wei Kuo[1] Yu-Chun Lo[2] Tzu-Hsin Tseng[1] Min-Chieh Chuang[3*] You-Yin Chen[1, 2, 4*]	Neuroscience Tool: Ultrasensitive Electrochemical Dopamine Aptasensor on the Multi-Electrode Array	[1]Department of Biomedical Engineering, National Yang Ming Chiao Tung University [2]PhD Program in Medical Neuroscience, College of Medical Science and Technology, Taipei Medical University [3]Department of Chemistry, Tunghai University [4]Medical Device Innovation and Translation Center, National Yang Ming Chiao Tung University