

2022 年 12 月 16 日

財團法人張榮發基金會 1006

Assistive Technologies

Time	Speaker	Topic	Affiliation
13:50-14:20	Li-Wei Ko	Mobile Brain-controlled Exoskeleton Interfaces (mBExIs) for Post-Stroke Lower Limb Rehabilitation	Institute of Electrical and Control Engineering, National Yang Ming Chiao Tung University
14:20-14:35 (250069)	Ling-Hsuan Yang, Chia-Yen Yang	Lip-Reading Recognition System Based on CNN-LSTM Model	Department of Biomedical Engineering, Ming Chuan University
14:35-14:50 (250164)	Ting-You Liu <sup>1</sup> , Yi-Chun Du <sup>*1,2</sup>	Development of an Assistant Device of Specific Speech Separation and Enhancement for Hearing Loss Patients	<sup>1</sup> Department of Biomedical Engineering, National Cheng Kung University, <sup>2</sup> Medical Device Innovation Center, National Cheng Kung University
14:50-15:05 (250097)	Yun-Chi Chuang, Chia-Yen Yang	Monitoring of Long term Sitting Posture at Work based on Image detection and EMG measurement	Department of Biomedical Engineering, Ming Chuan University
15:05:1520 (0093)	Tzu-Yang Weng, Shih-Yuan Chen, Chun-Hsiang Chang, Chi-Lun Lin	WiFi-Based Human Motion Identification and Quantification for Health Monitoring	Mechanical Engineering, National Cheng Kung University
15:20~15:40	Coffee Break		
15:40-16:10	Lan-Yuen Guo	Assistive technologies in dementia care	Department of Sports Medicine, Kaohsiung Medical University
16:10-16:25 (250216)	Nitish Kumar <sup>1</sup> , Yu-Te Liao <sup>2</sup> , Shu-Ping Lin <sup>1*</sup>	Impedimetric Detection of Lactate in Human Sweat via Modified Screen-Printed Carbon Electrodes	<sup>1</sup> Graduate Institute of Biomedical Engineering, National Chung Hsing University, <sup>2</sup> Department of Electrical and Computer Engineering, National Yang-Ming Chiao Tung University
16:25-16:40 (250270)	Aaron Raymond See <sup>1</sup> , Aldrin Joshua C. Tolentino <sup>1,2</sup> , Renann G. Baldovino <sup>2</sup>	Tactile Feedback Analysis of Ferrofluids for the Education of the Blind and Visually Impaired	<sup>1</sup> Department of Electrical Engineering, Southern Taiwan University of Science and Technology, <sup>2</sup> Manufacturing Engineering and Management Department, De La Salle University, Manila,

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**December 15-17, 2022**

16:40-16:55 (250372)	Hsuan-Yu Ho <sup>1</sup> , Hua-Shan Wu <sup>2</sup> , Zong-Hong Lin <sup>1,2</sup>	An Integrated Wearable and Self-Powered Thermoelectric-assisted System for Wound Healing and Tracking Functions	<sup>1</sup> Institute of Power Mechanical Engineering, National Tsing Hua University, <sup>2</sup> Institute of Biomedical Engineering, National Tsing Hua University
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16:55-17:10 (250478)	Chia-Wei Tu <sup>1,3</sup> , Keng-Chia Kuo <sup>1</sup> , Hsi-An Shih <sup>2</sup> , Ching-Feng Liu <sup>3,4</sup> , Peng-Ting Chen <sup>*1</sup>	Barriers of Wearable Medical Device Innovation: A study of Hearing Aids	<sup>1</sup> Department of Biomedical Engineering, National Cheng Kung University, <sup>2</sup> Institute of International Business, National Cheng Kung University, <sup>3</sup> Department of Otolaryngology, Chi Mei Medical Center, <sup>4</sup> Department of Electrical Engineering, Southern Taiwan University of Science and Technology
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