

2022 年 12 月 15 日  
財團法人張榮發基金會 1008

Biomechanics

Time	Speaker	Topic	Affiliation
13:50~14:20	Wei-Li Hsu	Virtual reality skateboarding: A novel virtual reality-based training and its biomechanical characteristics	School and Graduate Institute of Physical Therapy, College of Medicine, National Taiwan University
14:20~14:50	Yingchun Chen	Detection and Evaluation of Cartilage at Early Stages Osteoarthritis using UV-VIS-NIR Spectroscopy and its Potential Application	Department of Mechanical Engineering, National Taipei University of Technology
14:50~15:20	Yu-Tzu Wang	The development and biomechanical analysis of mandibular reconstruction plates with a decrease in mandibular segment relapse for different types of Hemifacial microsomia	Department of Mechanical and Electro-Mechanical Engineering, TamKang University
15:20~16:20	Coffee Break		
16:20~16:35 (250118)	Pin-Hsun Lian Tzu-I Chuang Gary Han Chang	Automatic Identification of Pain-Associated Imaging Abnormalities from Knee MRI Imaging by Deep Generative Networks	Department of Medical Device and Imaging, National Taiwan University
16:35~16:50 (250193)	Tsan-Yang Chen <sup>1,2</sup> Ting-Ming Wang <sup>3</sup> Kuan-Wen Wu <sup>3</sup> Pei-An Lee <sup>2</sup> Tung-Wu Lu <sup>2,3</sup>	Effects of Age on Three-dimensional Kinematics in Toddlers	<sup>1</sup> Center of General Education, Chia Nan University of Pharmacy and Science <sup>2</sup> Department of Biomedical Engineering, National Taiwan University <sup>3</sup> Department of Orthopaedic Surgery, School of Medicine, National Taiwan University
16:50~17:05 (250265)	Yu-Kai Hsieh Wei-Yu Chen Cheng-Yang Liu	Optical forces on human red blood cells induced by a shaped fiber probe with a photonic nanojet	Department of Biomedical Engineering, National Yang Ming Chiao Tung University
17:05~17:20 (250363)	Yi-Ching Tsai <sup>1</sup> Phunsuk Kantha <sup>1</sup> Po-Jung Chen <sup>1</sup> Dar-Ming Lai <sup>2</sup> Wei-Li Hsu <sup>1,3</sup>	Musculoskeletal Simulation for Muscle Forces during Static Postural Balance in Patients with Degenerative Lumbar Spine Disease	<sup>1</sup> School and Graduate Institute of Physical Therapy, National Taiwan University <sup>2</sup> Division of Neurosurgery, Department of Surgery, National Taiwan University Hospital

<p>17:20~17:35 (250415)</p>	<p>Li-Fong Lin<sup>1,2,3</sup> Kai-Yun Chen<sup>3,4</sup> Yi-Ju Hung<sup>1,2,3</sup> Ju-Chi Ou<sup>3,4</sup> Yung-Hsiao Chiang<sup>3,4,5</sup></p>	<p>Elucidate the postural control of dual-task balance assessment in patients with mild traumatic brain injury</p>	<p><sup>1</sup>School of Gerontology Health and Long Term Care, College of Nursing, Taipei Medical University <sup>2</sup>Department of Physical Rehabilitation and Medicine, Shuang Ho Hospital, Taipei Medical University <sup>3</sup>Neuroscience Research Center, Taipei Medical University <sup>4</sup>Graduate Institute of Neural Regenerative Medicine, College of Medical Science and Technology, Taipei Medical University <sup>5</sup>Department of Neurosurgery, Taipei Medical University Hospital, Taipei Medical University</p>
<p>17:35~17:50 (250443)</p>	<p>You-Cheng Yu<sup>1</sup> Tang-Chuan Wang<sup>2,3,4</sup> Tzu-Ching Shih<sup>1,5</sup></p>	<p>Using Extended High Frequency to Explore Effects of Age-related Tympanic-membrane Properties and Negative Middle Ear Pressure on Sound Transmission</p>	<p><sup>1</sup>The PhD Program for Medical Engineering and Rehabilitation Science, College of Biomedical Engineering, China Medical University <sup>2</sup>School of Medicine, College of Medicine, China Medical University <sup>3</sup>Department of Otolaryngology-Head and Neck Surgery, China Medical University Hsinchu Hospital <sup>4</sup>Department of Biomedical Engineering, College of Biomedical Engineering, China Medical University <sup>5</sup>Department of Biomedical Imaging and Radiological Science, College of Medicine, China Medical University</p>