

2022 年 12 月 15 日

財團法人張榮發基金會 1007

Medical Imaging

Moderators: Yi-Ping Chao and Wen-Chau Wu

Time	Speaker	Topic	Affiliation
13:50~14:20 Keynote Speech	Wen-Yih Issac Tseng	Brain predicted age is an emerging biomarker for brain health	AcroViz Technology, Inc., Taipei, Taiwan
14:20~14:35 (250380)	Hiu-Ki Lai ¹ Ting Chang ¹ Ting-Yun Deng ¹ Chung-Yu Chang ^{2,3} Wen-Chuan Kuo ^{1,*}	Oral cavity detection using handheld-probe polarization-sensitive optical coherence tomography	¹ Institute of Biophotonics, National Yang Ming Chiao Tung University, Taipei 112, Taiwan ² Department of Medicine, National Yang Ming Chiao Tung University, Taipei 112, Taiwan ³ Healthcare and Services Center, Taipei Veterans General Hospital, Taipei 112, Taiwan
14:35~14:50 (250213)	Li-Fu Lee Yen-Ting Liu Po-Syun Chen Mo-Han Lin Geng-Shi Jeng*	3D Phase-sensitive PatchMatch Searching for Ultrasound Motion Estimation	Institute of Electronics, National Yang Ming Chiao Tung University
14:50~15:05 (250206)	Wei-Cheng Hsiao ¹ Hsien-Jung Chan ¹ Bao-Yu Hsieh ^{1,2,*}	Pulse-Inversion Shear Wave Elastography (PI-SWE) Estimation of Stiffness Change by High Intensity Focused Ultrasound – Porcine liver	¹ Department of Medical Imaging and Radiological Sciences, Chang Gung University, Taoyuan, Taiwan ² Department of Medical Imaging and Intervention, Chang Gung Memorial Hospital, Taoyuan, Taiwan
15:05~15:20 (250181)	Wei-Hsiang Shen ¹ Meng-Lin Li ^{1,2,3,*}	Phase Aberration Correction Using Point Spread Function Reshaping for Biomedical Ultrasound Imaging	¹ Department of Electrical Engineering, National Tsing Hua University, Hsinchu, Taiwan ² Institute of Photonics Technologies, National Tsing Hua University, Hsinchu, Taiwan ³ Brain Research Center, National Tsing Hua University, Hsinchu, Taiwan

Moderators: Chun-Yi Wu and Meng-Lin Li

Time	Speaker	Topic	Affiliation
16:20~16:35 (250440)	Tzu-I Chuang* ¹ P-H Liana G. Changa	Mask Guided Generative Adversarial Networks for Osteoarthritis Repair MRI Simulation	¹ Institute of Medical Device and Imaging, National Taiwan University, Taipei 10051, Taiwan, R.O.C.
16:35~16:50 (250224)	Ming-Wei Lee ^{1,2} Meei-Ling Jan* ¹	Compensation of out-of-focus blurring for dual-head PET imaging in proton therapy	¹ Institute for Radiological Research, Chang Gung University, Taoyuan, Taiwan, R.O.C. ² Center for Reliability Science and Technology, Chang Gung University, Taoyuan, Taiwan, ROC
16:50~17:05 (250079)	Chang-Ling Chung ¹ Tommaso Furieri ^{2,3} Jyun-Yi Lin ¹ Ting-Chen Chang ¹ Jye-Chang Lee ⁴ Yi-Fan Chen ⁴ Ming-Kai Pan ^{4,5,6,7,8} Stefano Bonora ² Shi-Wei Chu ^{1,4,9}	Tunable acoustic lens plus adaptive optics (TAO) for fast volumetric two-photon imaging	¹ Department of Physics, National Taiwan University, Taipei 10617, Taiwan ² CNR-IFN of Padova, Padova, Italy ³ Department of Information Engineering, University of Padova, Padova, 35131, Italy ⁴ Molecular Imaging Center, National Taiwan University, Taipei 10617, Taiwan ⁵ Department of Medical Research, National Taiwan University Hospital, Taipei 10002, Taiwan ⁶ Department and Graduate Institute of Pharmacology, National Taiwan University College of Medicine, Taipei City 10051, Taiwan ⁷ Institute of Biomedical Sciences, Academia Sinica, Taipei City 11529, Taiwan ⁸ Cerebellar Research Center, National Taiwan University Hospital, Yun-Lin Branch, Yun-Lin 64041, Taiwan ⁹ Brain Research Center, National Tsing Hua University, Hsinchu 300044, Taiwan
17:05~17:20 (250281)	Ashish Kumar ¹ Venkanagouda S. Goudar ¹ Bishal Kumar Nahak ¹ Fan-Gang Tseng ^{1,2,3,4,5*}	Intratumor Oxygen Measurement in 3D-Multicellular Tumor Spheroids by using Ru(dpp)-based Fluorescent Polymeric Nano- sensors	¹ Department of Engineering and System Science, National Tsing Hua University, Taiwan ROC. ² Department of Radiation Oncology, Taipei Medical University Hospital, Taipei, Taiwan ROC. ³ Institute of Nano Engineering and Microsystems, National Tsing Hua University, Taiwan ROC. ⁴ Research Center for Applied Sciences, Academia Sinica, Taipei, Taiwan ROC. ⁵ Frontier Research Center on Fundamental and Applied Science of Matters, National Tsing Hua University, Taiwan ROC.
17:20~17:35 (250215)	Po-Syun Chen ¹ Lung-Chun Lin ² Geng-Shi Jeng ^{1*}	3D Ultrasound Cardiac Principal Stretch Imaging with Least- Squares-based Regularization	¹ Institute of Electronics, National Yang Ming Chiao Tung University ² National Taiwan University Hospital

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17:35~17:50 (250309)	Shiuan-Hui Wang ¹ Jui-Ting Hsu ^{*1} Lih-Jyh Fuh ^{1,2} Heng-Li Huang ¹	The Effect of Gender and Age on Jawbone Quality: A Dental CBCT Study	¹ School of Dentistry, China Medical University, Taichung 404, Taiwan, R.O.C. ² Department of Dentistry, China Medical University and Hospital, Taichung 404, Taiwan, R.O.C.
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2022 年 12 月 16 日

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Medical Imaging

Moderators: Yi-Ru Lin and Chih-Chung Huang

Time	Speaker	Topic	Affiliation
15:40~16:10 Invited Speech	Che-Chou Shen	Enhanced Temporal Coherence for Ultrasound Ultrafast Power Doppler Imaging: Temporal Multiply-and-Sum (TMAS) Autocorrelation	Department of Electrical Engineering, National Taiwan University of Science and Technology
16:10~16:25 (250217)	Hsien-Jung Chan ^{*1} Wei-Cheng Hsiao ¹ Po-Hsiang Tsui ^{1,2,3} Bao-Yu Hsieh ^{1,4}	Nakagami Imaging Combined with Pulse Inversion Subtraction for Monitoring of Continuous HIFU Therapy	¹ Department of Medical Imaging and Radiological Sciences, Chang Gung University, Taoyuan, Taiwan ² Institute for Radiological Research, Chang Gung University, Taoyuan, Taiwan ³ Division of Pediatric Gastroenterology, Department of Pediatrics, Chang Gung Memorial Hospital at Linkou, Taoyuan, Taiwan ⁴ Department of Medical Imaging and Intervention, Chang Gung Memorial Hospital at Linkou, Taoyuan, Taiwan
16:25~16:40 (250130)	Chia-Hsuan Chang ¹ Yuan-Pin Cheng ² Jung-Chih Chen ^{*3}	Target Detection of B-mode Image through Two-dimensional CFAR Processing	¹ Graduate Degree Program of College of Electrical and Computer Engineering, National Yang Ming Chiao Tung University, Hsinchu City 300, Taiwan, R.O.C. ² Electronic Systems Research Division, National Chung-Shan Institute of Science and Technology, Taoyuan City 335, Taiwan, R.O.C. ³ Institute of Biomedical Engineering, National Yang Ming Chiao Tung University, Hsinchu City 300, Taiwan, R.O.C.
16:40~16:55 (250205)	Md Anowar Parvez ¹ Kazuhiro Yashiro ¹ Izumi Nishidate ¹ Yasuyuki Tsunoi ² Yasue Haruyama ² Daizoh Saitoh ³ Shunichi Sato ²	In vivo monitoring of hemoglobin derivative concentrations and saturations in rat burn wounds using diffuse reflectance spectral imaging	¹ Graduate School of Bio-Applications & Systems Engineering, Tokyo University of Agriculture and Technology, Tokyo 1848588, Japan ² Division of Bioinformation and Therapeutic Systems, National Defense Medical College Research Institute, Saitama, Japan ³ Division of Basic Traumatology, National Defense Medical College Research Institute Saitama, Japan

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16:55~17:10 (250048)	Hui-Yu Chang Hsuan-Ming Huang	Image-domain Material Decomposition using DIP for Dual Energy CT	Institute of Medical Device and Imaging, National Taiwan University, Taipei 10051, Taiwan
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