The Chinese University of Hong Kong
Department of Biomedical Engineering

BME@CUHK Research Day: Explore, Innovate and Care

24 May 2024 (Friday)

2:30p.m. – 4:00p.m.

T.Y. Wong Hall Lecture Theatre (TYW_LT), CUHK

Program Rundown

Time	Topic	Keynote Speaker
2:30pm	Recent Development and Opportunities in CUHK BME	Prof. Raymond TONG BME, CUHK
2:35pm	Myoelectrically-controlled rehabilitation robots for patients after stroke	Prof. Rong SONG School of Biomedical Engineering, Sun Yat-Sen University
3:05pm	From neuroimage marker computing to neuroinformatic representation	Prof. Ting MA School of Electronic and Information Engineering, Harbin Institute of Technology (Shenzhen)
3:35pm	Plasmonic Insights from Nano to Metastructures for Biomedical Engineering	Prof. Donghyun KIM School of Electrical and Electronic Engineering, Yonsei University

Speakers

Rong Song (Senior Member, IEEE). He received the B.S. degree in electrical engineering from Tsinghua University, Beijing, China, in 1999, the M.S. degree in electronic engineering from Shantou University, Shantou, China, in 2002, and the Ph.D. degree in biomedical engineering from the Hong Kong Polytechnic University, Hong Kong, China, in 2006.
He is currently a Professor with the School of Biomedical engineering, Sun Yat-sen University, Guangdong, China. His research interests include musculoskeletal modeling, biomedical signal processing, and rehabilitation robots.

Ting MA, PhD, graduated from the Chinese University of Hong Kong
Professor, School of Electronic & Information Engineering, Harbin Institute of Technology at Shenzhen.
Research interest focuses on neuroinformatics, including neuroimage computing, brain-computer-interface, and related translational research in neural diseases. She proposed Neural Fingerprinting Framework to achieve multi-modality neural information fusion computation. Up to date, Neural Fingerprinting Framework has been employed by national clinical research center as the only intelligent technique, serving more than 400 hospitals. Ting Ma has been funded by different foundations including national key grants and Shenzhen Outstanding Young researchers, and published more than 150 research papers and 20 patents. Ting Ma is also the founder of MindsGo Co., which provides AI products for screening and early diagnosis of neurodegenerative diseases.

Donghyun Kim received B.S. and M.S. from Seoul National University in Department of Electronics Engineering. He graduated from Massachusetts Institute of Technology with Ph.D. in the area of multi-dimensional display technologies and smart optical filters. He worked on next generation fiber-optic access communication systems at Photonic Research and Test Center of Corning Inc. as a senior research scientist and then investigated cellular biophotonic sensors for cell-based assays at Cornell University as a postdoctoral fellow. He has since been leading Biophotonics Engineering Laboratory of Yonsei University, Seoul, Korea. He was elected as fellow of SPIE in 2021. The main theme of his research at Yonsei has been focused on photonic technology and applications in biomedical engineering based on near-field manipulation by plasmonic techniques and metastructures.

*** ALL ARE WELCOME ***

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