

SCIENTIFIC PROGRAM

SESSION LECTURE

No. 10

Interventional and Minimally Invasive Medicine
Room: 311A

Co-Chairs: Hongen Liao



Nassir Navab



Day 3 October 29th (Monday) 8:30 – 12:00

Time	Speaker	Title
8:30-9:00	Nassir Navab <i>Technical University of Munich, Germany</i>	Robotic Imaging, Machine Learning and Augmented Reality for Computer Assisted Interventions
9:00-9:30	Ping Liang <i>Chinese PLA General Hospital, China</i>	Image-guided precise ablation of tumors in China
9:30-10:00	Ichiro Sakuma <i>The University of Tokyo, Japan</i>	Integration of Robotics and Biomedical Measurement Engineering for Minimally Invasive Therapies
10:00-10:30	Tea Break	
10:30-11:00	Xiaoyuan Chen <i>National Institutes of Health, USA</i>	Radiotheranostics for Personalized Cancer Imaging and Therapy
11:00-11:30	Hongen Liao <i>Tsinghua University, China</i>	Innovation of 3D Imaging, Processing and Display for High Accuracy Minimally Invasive Medicine



Hongen Liao

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Hongen Liao is a full Professor and Vice Chairman in the Department of Biomedical Engineering, School of Medicine, Tsinghua University. He has been selected as a National “Thousand Talents” Distinguished Professor, National Recruitment Program of Global Experts, China since 2010. His research interests include 3D medical image, image-guided surgery, medical robotics, computer-assisted surgery, and fusion of these innovative healthcare technologies for minimally invasive precision diagnosis and therapy. He has also been involved in long viewing distance autostereoscopic display and 3D visualization.



Nassir Navab

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Nassir Navab is a full Professor and Director of the Laboratory for Computer Aided Medical Procedures, Technical University of Munich and Johns Hopkins University. He also has secondary faculty appointments at both affiliated Medical Schools. He is the author of hundreds of peer reviewed scientific papers, with more than 19,000 citations and an hindex of 69. His current research interests include multimodal imaging, augmented reality in medical education and training, computer-aided surgery, medical robotics, and machine learning.



Ping Liang

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Prof. Ping Liang is Chairman of Dept. of Interventional Ultrasound of Chinese PLA General Hospital; M.D., Chief physician, tutor of doctor; Recipient of the National Science Fund for Distinguished Young Scholars; Designate Chairman of Ultrasonic Committee of Chinese Medical Association. Prof. Liang has been granted by 20 national and provincial research projects and has published 98 SCI articles. Her major scientific interests are microwave ablation and radiofrequency ablation treatment of solid tumors in multiple organs.



Ichiro Sakuma

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Ichiro Sakuma is a Director of Research Institute for Biomedical Science and Engineering, and a Professor in Medical Device Development and Regulation Research Center, Department of Bioengineering/Department of Precision Engineering, School of Engineering, The University of Tokyo. His research interests include the field of biomedical engineering to assist diagnosis, treatment, and fundamental medicine.



Xiaoyuan Chen

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He is the Chief Investigator at the Laboratory of Molecular Imaging and Nanomedicine (LOMIN) at the National Institute of Biomedical Imaging and Bioengineering. His current research interests include development of molecular imaging toolbox for better understanding of biology, early diagnosis of disease, monitoring therapy response, and guiding drug discovery/development.