



SEMINAR/WORKSHOP: Medical and Robotic Ultrasound with AI



Moderator:

Professor Zhongliang Jiang

*Assistant Professor in robotics & AI,
Mechanical Engineering Department, HKU*



March 17, 2026 (Tue)



2:00-6:00 PM



Tam Wing Fan Innovation Wing Two, G/F

About the workshop:

This interdisciplinary workshop explores the fusion of AI with medical robotics and ultrasound. Leading experts will discuss machine learning for surgical perception, AI-driven ultrafast cardiovascular imaging, and intelligent robotic assistants. Presentations will also cover novel metamaterials for soft actuators and application-oriented ultrasound for clinical diagnosis. The program highlights the path from intelligence amplification to autonomous systems, showcasing innovations shaping the future of computer-assisted interventions and patient care.



**Topic: Sensing, Perception, Intelligence & Action in
High Intensity, Dynamic Surgical Environments**

Professor Nassir Navab

Professor in Computer Science, Technical University of Munich



Topic: Metamaterials for Soft Actuators and Robots

Professor Nicholas X Fang

*Chair Professor of Photonics Innovation,
Mechanical Engineering Department, HKU*



Topic: Ultrafast Ultrasound Imaging of the Cardiovascular System

Professor Wei-Ning Lee

*Associate Professor and Associate Head (Research),
Department of Electrical and Computer Engineering, HKU*



Topic: Application-Oriented Ultrasound Empowered by AI

Professor Yong-Ping Zheng

*DoRISA & Chair Professor of Biomedical Engineering,
The Hong Kong Polytechnic University*



Topic: Intelligent Medical Assistive Robots

Professor Zheng Li

*Full Professor in the Department of Surgery,
The Chinese University of Hong Kong*