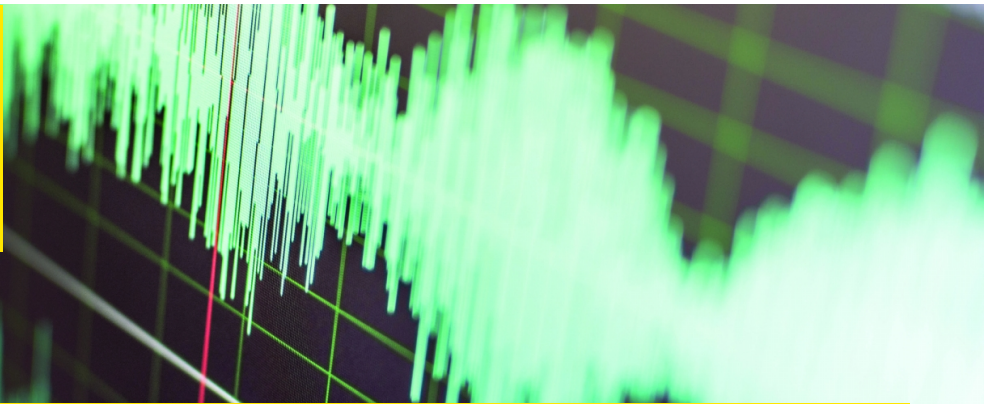




UNSW
SYDNEY



Flexible Surgical Robots and Wearable Devices

Expertise in designing teleoperation systems, flexible surgical robots, magnetic capsule endoscopy and soft wearable devices to improve the human quality of life.

Competitive advantage

- World-leading technologies on soft robotics, wearable devices, and flexible surgical systems with multifunctionalities that can be widely applied in various applications
- Expertise in mechanical design, electronics, system modelling, functional materials, and nonlinear control
- Experienced in international patent protections
- Strong collaboration networks in USA, Singapore and Australia

Impact

- Improved the human quality of life with cutting-edge technologies for haptics, entertainment, and healthcare

Successful applications

- World's first flexible endoscopic robot for gastrointestinal cancer treatment
- Soft magnetic capsule robot for weight management
- World's first multifunctional soft electromagnetic actuators, soft planar textile muscles, and microtubule sensors for haptics and robotic applications

Capabilities and facilities

- Full-scale experimental equipment for real-time control and characterisation of robotics and mechanical systems

Our partners

- Prince of Wales Hospital

More Information

Dr Thanh Nho Do

Graduate School of Biomedical Engineering

T: +61 432 281 689

E: tn.do@unsw.edu.au

UNSW Knowledge Exchange

knowledge.exchange@unsw.edu.au

www.capabilities.unsw.edu.au

+61 (2) 9385 5008