



The Engineering Institute of Canada

2023 Award Citation

EIC Fellow



Xinyu Liu

Nominated by IEEE Canada

Dr. Xinyu Liu is the Percy Edward Hart Professor of Mechanical and Industrial Engineering at the University of Toronto. He is internationally recognized for his pioneering contributions in paper-based microfluidics, microrobotics, and flexible/stretchable sensors, with successful applications in disease diagnostics and treatment, basic biology research, and wearable electronics.

He has published 106 articles in high-impact journals such as Science, Science Robotics, Nature Communications, and IEEE Transactions, 84 conference articles, 3 books, and 13 book chapters. He is a co-inventor of 13 US/Canadian patent applications (6 granted), with 4 licenced to industry.

Dr. Liu has received many awards such as the Canada Research Chair in Microfluidics and BioMEMS, the Douglas R. Colton Medal for Research Excellence, the Christophe Pierre Award for Research Excellence from McGill University, and 8 Best Paper Awards from major engineering and medical conferences. He is a Fellow of CSME and ASME.

Dr. Liu is the Corresponding Chair of the IEEE-RAS Technical Committee for Micro/Nano Robotics and Automation and the Chair of the IEEE-RAS TC Cluster on Health and Medical Robotics. He has served on the editorial boards of 8 international journals and organized many IEEE/ASME conferences in different roles including general/program/awards (co-)chair and steering/program committee member.

Ladies and gentlemen, and Ms. President, please welcome Xinyu Liu as a Fellow of the Engineering Institute of Canada.