



The Engineering Institute of Canada

2024 Award Citation

EIC Fellow



Medhat Moussa

Nominated by IEEE Canada

Dr. Moussa, Professor and Dept Head at the University of Guelph, is a renowned figure in the field of robotics, especially in grasping and manipulation within unstructured environments. His groundbreaking approach to grasp synthesis, which combines real-time sensory input with accumulated experience, enables robots to grasp objects under uncertain conditions and even those they have not encountered previously.

His extensive publication record includes over 150 technical articles in esteemed journals such as the IEEE Transactions on Robotics, and IEEE Letters on Robotics and Automation, underscoring his expertise and the relevance of his work to industrial applications. Renowned as Canada's leading expert in Robotics and Automation in agriculture, his research lab introduced the innovative Guelph Intelligent Greenhouse Automation System, significantly impacting labour efficiency in Ontario's vital greenhouse sector.

His contributions have garnered substantial media attention, including 4 national interviews and 10 text articles. In the automotive industry, he has collaborated with national companies to develop advanced robotic systems for applications like bin picking and inspection, further demonstrating the practical and wide-ranging impact of his research and expertise.

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