Frontiers of Autonomous Robotics

SPEAKER	**Prof Dongbing Gu**	DATE	16 Jul, 2025 (Wed)
	Professor	TIME	10:00 AM - 12:00 PM
	School of Computer Science and Electronic Engineering, University of Essex	VENUE	CS Seminar Room, Y6405, 6th Floor, Yellow Zone, Yeung Kin Man Academic Building, City University of Hong Kong, 83 Tat Chee Avenue, Kowloon Tong

ABSTRACT

This talk focuses on recent research advances of autonomous robotics conducted at University of Essex. It covers the topics ranging from robotic fishes, robotic wheelchairs, multiple drones, simultaneous localisation and mapping, to agriculture robotics. The state of the art robotic techniques and AI aspects involved in these autonomous systems will be emphasised during the talk. Some recent results will be demonstrated in video clips.

BIOGRAPHY

Dongbing Gu is a Professor in the School of Computer Science and Electronic Engineering, University of Essex. He received the B.Sc. and M.Sc. degrees in automatic control from Beijing Institute of Technology, Beijing, China and the Ph.D. degree in robotics from University of Essex, UK. He was an Academic Visiting Scholar with the Department of Engineering Science, University of Oxford, Oxford, UK, from October 1996 to October 1997. His research expertise is in the field of robotics, autonomous systems, and machine learning. He has published more than 250 papers in international conferences and journals. His research has been supported by UK Research Councils (EPSRC), InnovateUK, Royal Academy of Science, European Commission, and industry. He is an Editorial Board Member of Cognitive Computation and IEEE Automation and Robotics Letter, and a Specialty Chief Editor of Frontiers in Robotics and AI. He served the organisation committee and programme committee for many international conferences. He was the president of the Chinese Automation and Computing Society in the UK during 2016-2017.

All are welcome!

In case of questions, please contact Prof LU Zhichao at zhichao.lu@cityu.edu.hk, or visit the CS Departmental Seminar Web at https://www.cs.cityu.edu.hk/events/cs-seminars/recent-cs-colloquiums.