



Mr Yanan Liu

Teaching Support Assistant

Area of research

Robotics and Autonomous System

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[\(See a map\)](#)

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Summary

Yanan Liu's current research interests include real-time computer vision, robot control, mobile robot navigation, robotic vision, visual servoing, and automotive applications. He is fascinated with applying his knowledge to practical engineering.

Biography

2009 - 2013, Shandong University, Jinan, China, Mechanical Engineering, Bachelor

2013 - 2016, Shandong University, Jinan, China, Mechatronics (Industrial Robots), Master

2016 - 2017, Shandong University, Jinan, China, Research Assistant

2017.09-, University of Bristol, Bristol, UK, Bristol Robotics Laboratory. Robotics and Autonomous System, PhD Student

Teaching

Teaching Support Assistant on Robotics MSC courses: Robotics Fundamental, Robotic System from October 2018

Keywords

- robot navigation
- robotic vision
- visual servoing

Memberships

Organisations

[Department of Electrical & Electronic Engineering](#)

[Bristol Robotics Laboratory](#)

Other sites

- [Aerospace](#)
- [Eeng](#)

Research Groups

- [Visual Information Laboratory](#)
- [Robotics](#)

Links

-  [YouTube Channel](#)

Selected publications

- Fan, R, Liu, Y, Bocus, J & Liu, M, 2018, '[Real-Time Subpixel Fast Bilateral Stereo](#)'. in: *Real-Time Subpixel Fast Bilateral Stereo*.

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Recent publications

- Liu, Y, Fan, R, Yu, B, Bocus, J, Liu, M, Fan, J & Mao, S, 2019, '[Mobile Robot Localisation and Navigation Using LEGO NXT and Ultrasonic Sensor](#)'. in: *2018 IEEE International Conference on Robotics and Biomimetics (ROBIO 2018): Proceedings of a meeting held 12-15 December 2018, Kuala Lumpur, Malaysia..* Institute of Electrical and Electronics Engineers (IEEE), pp. 1088-1093
- Fan, R, Liu, Y, Yang, X, Bocus, J, Dahnoun, N & Tancock, S, 2018, '[Real-Time Stereo Vision for Road Surface 3-D Reconstruction](#)'. in: *Real-Time Stereo Vision for Road Surface 3-D Reconstruction*.
- Liu, Y, Hu, T, Ni, H, Zhang, C, Lin, B & Judd, E, 2018, '[Design of a PC-based Open Industrial Robot Control System Integrated with Real-Time Machine Vision](#)'. in: *2018 WRC Symposium on Advanced Robotics and Automation (WRC SARA): Proceedings of a meeting held 16 August 2018, Beijing, China..* Institute of Electrical and Electronics Engineers (IEEE), pp. 1-6

[View complete publications list](#) in the University of Bristol publications system

Courses

Mr Liu currently teaches 1 courses: