Jiadong Guo

Robotics Engineer

- 11 July 1992
- Zurich Area, Switzerland
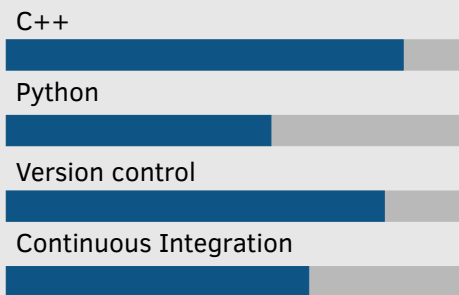- http://jd-eth.github.io
- jiadong.guo@outlook.com

About me

Jiadong (JD in short) is a curious engineer who is relentlessly seeking for elegant and robust solutions of robotics problems. With broad theoretical understanding and diverse practical experience in field robotics, he now wants to bring AI into life.

Knowledge

Localization and mapping

State estimation

Planning and control

Coding

C++

Python

Version control

Continuous Integration
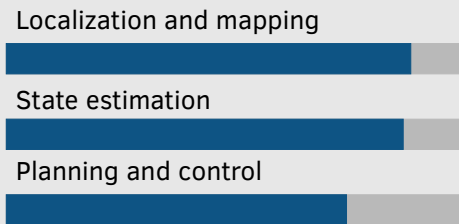
(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Interests

Robotics perception and control, especially learning-based approaches.

Education

2016-2019	M.Sc. in Robotics, Systems and Control	ETH Zurich
	Specializing in learning, vision and control. Graded 5.64/6.	
2011-2016	B.Sc. in Mechanical Engineering	RWTH Aachen
	Specializing in automotive engineering. Graded 1.7/1.	
2004-2010	High School	Shanghai Foreign Language School
	German as first foreign language.	

Publications

2019	Local descriptor for robust place recognition using LiDAR intensities, 1st author	ICRA 2019
2019	Robust photogeometric localization over time for map-centric loop closure, 4th author	ICRA 2019

Awards

2017	Overall best team in CAT vehicle challenge, University of Arizona.

Experience

Apr 2016	Semester Project	Agile & dexterous robotics lab, ETH Zurich
	State and inertial parameter estimation of a quadruped, 6 months.	
Sep 2016	Teaching Assistance	Institute for Machine Learning, ETH Zurich
	Supporting Machine Learning class, 3 months.	
Mar 2017	Intern in Control	Flyability SA, Lausanne, Switzerland
	Control algorithm evaluation and implementation, prototyping, simulation, sensor integration, 8 months.	
Nov 2018	Master thesis and internship	CSIRO's Data61, Brisbane Austrlia
	Perception of autonomous utility vehicle with LiDAR and camera, develop and deployed a robust localization approach.	

Other information

Projects

Details about previous projects, developed on real-size cars, drones, can be found under personal page and YouTube channel.

Hobby

JD climbs, kitesurfs and snowboards. He was also consistently ranked masters with random race on StarCraft 2, and won the second place in Aachener Championship.