

# Yafu Tian

Ph.D Candidate

State Key Laboratory of Robotics and System

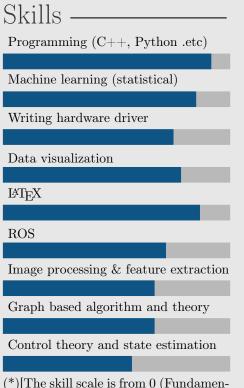
9 January 1994 Harbin China

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tal Awareness) to 6 (Expert).]

# Research Interests

Semantic SLAM, Object Detection and Recognition, Environment reconstruction

#### Education

since 2017.9	Ph.D. Candidate State Key Laboratory of Robotics and Sys Majoring in Robotics (Software system)	Harbin Institute of Technology stem
2016-2017	Ph.D. Student State Key Laboratory of Robotics and Sys Majoring in Robotics (Software system)	Harbin Institute of Technology stem
2012-2016	Undergraduate Chen Geng experimental class. Specializing control theory and computer s GPA 3.8 with 4.0 overall	Harbin Engineering University science.

# Publications

- Tian Y, Wang K, Li R and Zhao L (2016) Fast map segmentation 2016.8method based on spectral partition for robot semantic navigation. In: 2016 IEEE International Conference on Mechatronics and Automation. pp. 10591065. DOI:10.1109/ ICMA.2016.7558709. 2018.1 Yafu Tian, Ke Wang, Ruifeng Li, Lijun Zhao A Fast Incremental Map Segmentation Algorithm Based on Spectral Clustering and Quad Tree.
  - (under review)

# Awards

2013.5	National Air Model Competition	$\mathbf{S}$	second prize
2013.10	Chinese Robot Competition & RoboCup (AUV even	nt)	First prize
2014.9	Chinese Robot Competition & RoboCup (AUV even	nt)	First prize
2014.6	Mathematical Modeling of Northeastern Provinces I	League S	lecond prize
2013-2015	Scholarship for Outstanding Student	6 times wi	ith 6 overall
2013.10	Merit Student		
2013.10	Master of Sports & Certified Judge Grade 2 for Voll	evball	

### Projects

2016-2017	Whole Robot Software System & Controller on Mobile Platform Patrol Robot XiaoBai & XiaoHuang (Check my website for details)
2016-2017	Fast map segmentation method based on spectral partition for robot semantic navigation 1 SCI and 1 EI Conference Paper
2015-2016	SLAM and Navigation System for Indoor Patrol Robot Graduation Design
2015.8	Neusoft Project Training Internship Embedded system development
2013-2015	Robot software system development Participate in writing AUV (Underwater Autonomous Robot) Con- troller and Hardware Driver. Responsible for object detection and state estimation.
2012-2013	Robot software system development Writing aeromodel and UGV hardware driver. Writing path planner and base controller.

# Other information

My life goal is to implement science fiction vision of advanced artificial intelligence. And I devote myself to any research field which will help. A more actual goal is to make robot learning and recognizing environment automatically. In past few years I focused on state estimation and environment recognition problem of different robots (Aeromodel, AGV and AUV).