

Yangwei You

PERSONAL DATA

PLACE AND DATE OF BIRTH: Jiangxi, China | 14 November 1989
ADDRESS: Via Morego 30, 16163, Genova, Italy
PHONE: +39 392 5885454
EMAIL: yangwei_you@126.com

EDUCATION

| | | |
|-----------------|---|----------|
| 2014.11-current | Istituto Italiano di Tecnologia , Italy Research Line: Humanoids and Human Centered Mechatronics | Ph.D. |
| 2011.08-2013.07 | Harbin Institute of Technology , China Major: Mechatronic Engineering in State Key Robotics Institute | Master |
| 2007.08-2011.07 | Harbin Institute of Technology , China Major: Mechanical Design, Manufacture and Automation | Bachelor |

PROJECTS

| | |
|--------------------------------|--|
| <i>Current</i> NOV. 2014 | Locomotion Control for Humanoid Robot WALKMAN Ph.D. thesis in Istituto Italiano di Tecnologia. Focused on optimization-based high-level trajectory planning and low-level torque control on the whole-body humanoid robot as part of FP7 European project WALK-MAN. |
| <i>Sept. 2017</i> MAR. 2017 | Control Software Development for Cooky Robot Arms of MROBOT Ltd A short-term working package for the robot arm development of MROBOT Ltd. Based on ROS, developed a uniform control platform to perform simulation in Gazebo and run experiments on real robots with easy switch. |
| NOV. 2014 JULY 2013 | Design Engineer in Sensata Technologyies Worked as a design engineer in an American Company "Sensata Technologies" in China mainland, mainly in charge of the design of automotive pressure transducer. |
| JULY 2013 JULY 2011 | Control Method Study of Stable Quadruped Trot Running Master thesis subordinated to the national 863 project of China. A combined simulation platform of ADAMS and MATLAB was built for a 3D quadruped robot. Different control strategies were investigated to realize stable running of quadruped robots. |
| OCT. 2012 JUNE 2012 | Design and Manufacture of Contact Resistance Measuring Instrument A delicate fixture and a 3-axis motion platform were built to automatically measure the contact resistance between electrical contacts with static contact force control accuracy $\pm 0.005\text{N}$ and position control accuracy 0.1mm . |
| JUNE 2011 OCT. 2010 | Software Development for Vitesse2 Microwave Oven of Whirlpool Ltd Bachelor thesis as a University and Whirlpool Joint R&D project. A synthetical control program, running in STM8 micro-controller, was developed successfully for the whole Vitesse2 microwave oven series, one software for different specifications. |
| SEPT. 2010 SEPT. 2009 | Design of Portable and Multi-functional Rescue Instrument Won national first prize in the fourth national undergraduate mechanical innovative design competition with "portable and multifunctional rescue instrument" as team leader. |

PUBLICATION

1. Songyan Xin, Yangwei You, Chengxu Zhou, Cheng Fang, and Nikos Tsagarakis. A torque-controlled humanoid robot riding on a two-wheeled mobile platform. In *International Conference on Intelligent Robots and Systems (IROS)*, 2017, Accepted.
2. Yangwei You, Chengxu Zhou, Zhibin Li, and Nikos Tsagarakis. A study of nonlinear forward models for dynamic walking. In *International Conference on Robotics and Automation (ICRA)*, 2017.
3. Yangwei You, Songyan Xin, Chengxu Zhou, and Nikos Tsagarakis. Straight leg walking strategy for torque-controlled humanoid robots. In *International Conference on Robotics and Biomimetics (ROBIO)*, 2016.
4. Yangwei You, Zhibin Li, Darwin G Caldwell, and Nikos G Tsagarakis. From one-legged hopping to bipedal running and walking: A unified foot placement control based on regression analysis. In *International Conference on Intelligent Robots and Systems (IROS)*, 2015.
5. Yangwei You, Zhibin Li, Nikos G Tsagarakis, and Darwin G Caldwell. Foot placement control for bipedal walking on uneven terrain: An online linear regression analysis approach. In *International Conference on Climbing and Walking Robots and Support Technologies for Mobile Machines (CLAWAR)*, 2015.

SCHOLARSHIPS

- 2015-2017 Ph.D Student Scholarship from Istituto Italiano di Tecnologia
- 2011-2013 Postgraduate Scholarship(first class 1 time, second class 1 time)
- 2007-2011 People's Scholarship(first class 1 time, second class 4 times, third class 2 times)
- 2007-2011 Fuji Xerox Enterprise Scholarship(1 time); STX Enterprise Scholarship(1 time)
- 2007-2011 Merit Student(2 times); Excellent Graduate of Harbin Institute of Technology

LANGUAGES

CHINESE: Mother tongue
ENGLISH: Fluent

COMPUTER SKILLS

Basic: Linux, CMake, Python.
Familiar: C, C++, Micro-controller, SolidWorks, Matlab, ADAMS, ODE, ROS, GAZEBO.

INTERESTS AND ACTIVITIES

Robotics, Open-Source, Programming
Badminton, Swimming, Hiking