

NGUYEN DONG HAI PHUONG

Robotics Researcher & PhD Fellow

@ phuong.nguyen@iit.it Via Morego 30, 16163 Genova, Italy towardthesea.github.io
@towardthesea_vn in phuong-d-h-nguyen github.com/towardthesea



EXPERIENCE

Robotics Researcher & PhD Fellow

Istituto Italiano di Tecnologia

Jan 2016 – Ongoing Genova, Italy

- Develop new perception and sensorimotor capabilities of iCub

Collaborative Researcher

DIBRIS, Univ. of Genova

Sept 2015 – Dec 2015 Genova, Italy

- Develop control and planning algorithm for UAV, SAFEMAP project

Research Student

Laboratorium, Univ. of Genova

Feb 2015 – Sept 2015 Genova, Italy

Lecturer

Faculty of Elec. Eng., Da Nang Univ. of Science & Tech.

Nov 2010 – Jan 2016 Da Nang, Vietnam

- Teaching & Research assistant in Embedded System, Control

Intern

Van Thanh Medical Instruments Company

Nov 2009 – Dec 2009 Da Nang, Vietnam

Intern

Pleikrong Hydropower Plant

Jun 2009 – Aug 2009 Kontum, Vietnam

SCHOLARSHIPS & AWARDS

Marie Curie Early Stage Researcher Fellowship

European Commission

2016 – ongoing

Erasmus Mundus Scholarship

EMARO Program

2013 – 2015

Good Grade Graduation of Course 2005-2010 Award

Da Nang Univ. of Tech.

2010

Shinco Technos Scholarship for Excellent Students of Da Nang Univ. of Tech.

Shinko Technos Co.Ltd, Japan

2009

Odon Vallet Scholarship for Vietnamese Excellent Students

Rencontres Du Vietnam

2007 & 2008

RESEARCH INTERESTS

- Spatial perception and sensorimotor competences development in humanoid robotics.
- Machine Learning application on Robots.
- Control and Motion Planning.
- Embedded Systems.

EDUCATION

PhD. in Bioengineering & Robotics

Istituto Italiano di Tecnologia, Italy
University of Genova, Italy

Jan 2016 – ongoing

M.S. in Advanced Robotics

University of Genova, Italy
Ecole Centrale de Nantes, France

Sept 2013 – Sept 2015

B.Eng. in Electrical Engineering

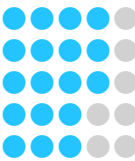
Da Nang University of Tech., Vietnam

Sept 2005 – June 2010

TECH. SKILLS

Programming

C/C++
ROS/YARP/OpenCV
Matlab/Simulink
Python
Visual Basic/Ladder/STL



Robots

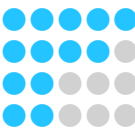
Khepera III Firefly(UAV) Pelican
Puma Baxter iCub Reem-C

MPU/MCU

Microchip PIC/dsPIC Cypress PSoC
Intel 8086 Atmel 8051
TI DSP/Stellaris

LANGUAGES

Vietnamese
English
French
Italian



PROJECTS

SECURE European Project.

📅 2016 - ongoing

WYSIWYD European Project.

📅 2016

Real-time Path Generation and Control with obstacles avoidance of Multicopters - Toward Autonomous Aerial Vehicles for Search and Rescue.

📅 2015

Monitoring and controlling Baxter robot with Oculus Drift.

📅 2014

Developing ROS (Robot Operating System) stack and localization ability for Khepera III mobile robot (K-team).

📅 2014

PUBLICATIONS

Journal Articles

- Nguyen, Phuong DH, Carmine T Recchiuto, and Antonio Sgorbissa (2017). "Real-Time Path Generation and Obstacle Avoidance for Multirotors: A Novel Approach". In: *Journal of Intelligent & Robotic Systems*, pp. 1-23. ISSN: 0921-0296.

Conference Proceedings

- Nguyen, Phuong DH, Matej Hoffmann, et al. (2016). "A fast heuristic Cartesian space motion planning algorithm for many-DoF robotic manipulators in dynamic environments". In: *Humanoid Robots (Humanoids), 2016 IEEE-RAS 16th International Conference on*. IEEE, pp. 884-891. ISBN: 1-5090-4718-2.
- Nguyen, Phuong DH, Carmine T Recchiuto, and Antonio Sgorbissa (2016). "Real-time path generation for multicopters in environments with obstacles". In: *Intelligent Robots and Systems (IROS), 2016 IEEE/RSJ International Conference on*. IEEE, pp. 1582-1588. ISBN: 1-5090-3762-4.

REFEREES

Prof. Giorgio Metta

@ giorgio.metta@iit.it

✉ iCub Facility, Istituto Italiano di Tecnologia, Genova, Italy

Dr. Ugo Pattacini

@ ugo.pattacini@iit.it

✉ iCub Facility, Istituto Italiano di Tecnologia, Genova, Italy

Prof. Antonio Sgorbissa

@ antonio.sgorbissa@unige.it

✉ Laboratorium, Università degli Studi di Genova, Genova, Italy

Prof. Wisama Khalil

@ wisama.khalil@ircryn.ec-nantes.fr

✉ Robotics group, IRCCyN, Ecole Centrale de Nantes, Nantes, France

Prof. Garcia Gaetan

@ gaetan.garcia@ec-nantes.fr

✉ Robotics group, IRCCyN, Ecole Centrale de Nantes, Nantes, France