NGUYEN DONG HAI PHUONG

Robotics Researcher & PhD Fellow

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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
Falculty 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
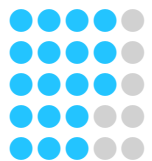
B.Eng. in Electrical Engineering
Da Nang University of Tech., Vietnam
📅 Sept 2005 – June 2010

TECH. SKILLS

Programming

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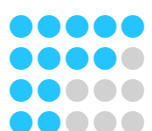**Visual Basic/Ladder/STL** ●●●○○○

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

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

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@ antonio.sgorbissa@unige.it
✉ Laboratorium, Università degli Studi di Genova, Genova, Italy

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

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