

Hung Pham

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Education

- 2016–present **Ph.D. student in Robotics**, *NTU*, Singapore, supervised by Dr. Quang-Cuong Pham.
- 2011–2015 **Mechanical Engineering**, *NTU*, Singapore, *First class honours*.
- Honors and Awards**
- 2011, 2013 NTU Mechanical Engineering Dean's List
- 2014 Winner of VTM Concept Design by Wincor Nixdorf
- 2011–2015 ASEAN undergraduate scholarship
- 2010 Silver Medal in Asian Physics Olympiad

Publications

Journal papers

- J1, 2018 *A new approach to time-optimal path parameterization based on reachability analysis*
Hung Pham, Quang-Cuong Pham
IEEE Transactions on Robotics 34, Issue 3, June 2018.
- J2, 2018 *Robotic manipulation of a rotating chain*
Hung Pham, Quang-Cuong Pham
IEEE Transactions on Robotics 34, Issue 1, Feb 2018.
- J3, 2018 *Large-scale 3D printing by a team of mobile robots*
X. Zhang, M. Li, J.-H. Lim, Y. Weng, D. Tay, **Hung Pham**, Q.-C. Pham
Automation in Construction, vol. 95, 2018

Conference papers

- C1, 2018 *Time-Optimal Path Tracking via Reachability Analysis*
Hung Pham, Quang-Cuong Pham
2018 IEEE International Conference on Robotics and Automation.
- C2, 2018 *Departure and Conflict Management in Multi-Robot Path Coordination*
Puttichai Lertkultanon, Yang Jingyi, **Hung Pham**, Quang-Cuong Pham
2018 IEEE International Conference on Robotics and Automation.
- C3, 2017 *On the structure of the time-optimal path parameterization problem with third-order constraints*
Hung Pham, Quang-Cuong Pham
2017 IEEE International Conference on Robotics and Automation.

C4, 2016 *Robotic 3D-Printing for Building and Construction*
Hung Pham, Jian Hui Lim, Quang-Cuong Pham
International Conference on Progress in Additive Manufacturing

Experience

Professional services

Reviewer for 2019 IEEE International Conference on Robotics and Automation

Reviewer for IEEE Transaction of Robotics

Reviewer for IEEE Transactions on Control Systems Technology

Reviewer for IEEE Robotics & Automation Letters

Reviewer for 2018 IEEE/RSJ International Conference on Intelligent Robots and Systems

Reviewer for Mechanism and Machine Theory

Vocational

2015–2016 **Project Officer**, *NTU*, Singapore.

Responsible for conducting research and development in robotic motion planning.

Detailed achievements:

- Developed a robotic concrete 3D printing;
- Won second place in the Airbus Shopfloor Challenge Competition with CRI team.

Internships

2014–2015 **Engineer, Intern**, *Innovation Center*, Nanyang Technological University.

Designed mechanical layout for water-borne testing machines.

2014–2014 **Design Engineer, Intern**, *Dyson Singapore*.

Developed a component for a Dyson machine.

Utilized statistical methods to create a magnetic field analysis tool.

Skills

Development Robotic development in Ubuntu, proficient with Python, C++. Have worked with OpenRAVE, ROS.

Research Expertise in time-optimal and robust robotic motion planning and control. Is familiar with applied mathematics (Linear Algebra, Optimization, Optimal Control). Have brief experience with Machine Learning.