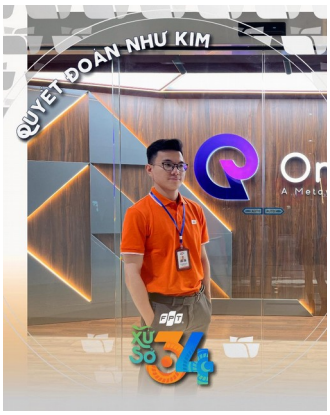


# DINH-CUONG HOANG

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## Academic Career:

| | |
|---|---|
| Lecturer & Researcher at FPT University (Full Time) | **Teaching courses:** Programming Fundamentals (C Language); Object Oriented Programming (Java); Data Structures and Algorithms; Digital Image Processing; Advanced Computer Vision; Programming for Robotics; Robotics: Perception; Introduction of Deep Learning.<br>**Research Areas:** Computer vision, deep learning, robotics. |
| Ph.D in Computer Science, Örebro University, Sweden.<br>website<br>Centre for Applied Autonomous Sensor Systems (AASS). | **Thesis:** *Vision-based Perception For Autonomous Robotic Manipulation.* web PDF<br>**Research interests**: *My research interests lie at the intersection of computer vision, robotics, and machine learning. I am particularly interested in topics involving autonomy for robots, with a focus on perception algorithms.*<br>**ILIAD Project**: *a key member of the EU-funded research project Iliad. website code video* video video |
| Research Assistant at National Taiwan University (NTU) | **Project 1**: Automated 3D pick & place and key dimension inspection on randomly stacked workpieces. video video<br>**Project 2**: 3D surface reconstruction and automated robotic inspection system. video |
| Master of Science | Master of Science in Automation Technology from National Taipei University of Technology (NTUT).<br>**Thesis**: Multi-View 3-D surface digitization using Automated robot scanning and image registration. video video |
| Engineering Program (HUST) | 5-year Engineering Program, Control and Automation Engineering, Hanoi University of Science and Technology. |

## Research Skills:

- Practical experience in C/C++, python , ROS, Gazebo.
- Strong familiarity with 2D image and 3D point cloud processing algorithms.
- Research experience in deep learning, familiarity with Pytorch.
- Solid theoretical background of the basic concepts in robotics, computer vision, and deep learning.

## Awards and Honors:

- Fully Funded PhD Program in Computer Science, Orebro Unversity, Sweden.
- National Taiwan University Regulations Governing Academic Research Fellowship for Outstanding International Graduate Students 2016.
- 2016 CTCI Scholarship for Oversea Graduate Students in Taiwan.
- Award for being ranked 1st among the master students graduated at the Institute of Automation Technology (2016), National Taipei University of Technology.
- The second place of Intelligent Automation Equipment Invention Award 6th 2016, Taiwan.
- Best Poster Award at International Conference on Inventions (ICI) 2015.
- The honorable award of 2015 Robot Competition for innovative smart application on industrial robot, Taiwan.
- National Taipei University of Technology Scholarship for Outstanding International Master's Students (2014-2015).

**Recent Publications**

**Conference Rank A*:**

**1. Hoang, D. C.,** Stork, J. A., & Stoyanov, T. (2022). Voting and Attention-based Pose Relation Learning for Object Pose Estimation from 3D Point Clouds. *The 2022 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2022)*, Kyoto, Japan, October 23-27, 2022. PDF

**2. Hoang, D. C.,** Stork, J. A., & Stoyanov, T. (2022). Context-Aware Grasp Generation in Cluttered Scenes. *IEEE International Conference on Robotics and Automation (ICRA 2022)*, Philadelphia, USA, May 23-27, 2022. PDF

**3. Hoang, D. C.**, Lilienthal, A. J., & Stoyanov, T. (2020). Panoptic 3D Mapping and Object Pose Estimation Using Adaptively Weighted Semantic Information. *IEEE International Conference on Robotics and Automation (ICRA 2020), Paris, France, May 31-Jun 4, 2020.* PDF *code video*

**ISI/SCOPUS Q1:**

**4. Hoang, D.C.**, Stork, J.A. and Stoyanov, T., 2022. Voting and Attention-Based Pose Relation Learning for Object Pose Estimation From 3D Point Clouds. *IEEE Robotics and Automation Letters, 7(4), pp.8980-8987.* PDF

**5. Hoang, D. C.**, Lilienthal, A. J., & Stoyanov, T. (2020). Object-RPE: Dense 3D reconstruction and pose estimation with convolutional neural networks. *Robotics and Autonomous Systems (RAS)*, 133, 103632. PDF code video

**6. Hoang, D. C.**, Lilienthal, A. J., & Stoyanov, T. (2020). Panoptic 3D Mapping and Object Pose Estimation Using Adaptively Weighted Semantic Information. *IEEE Robotics and Automation Letters (RAL)*, 5(2), 1962-19. PDF *code* *video*

**7. Hoang, D. C.**, Chen, L. C., & Nguyen, T. H. (2016). Sub-OBB based object recognition and localization algorithm using range images. Measurement Science and Technology, 28(2), 025401. PDF code video

*ICRA*, *RAL*, and *RAS* are top conferences and journals in robotics and artificial intelligence. Sources: google scholar and scimagojr.
***Please find my full publication list on research gate or google scholar.***