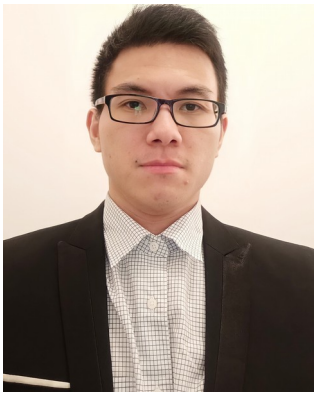

DINH-CUONG HOANG

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Academic Career:

Dec 2021 – Now Lecturer & Researcher at FPT University (Full Time) Guest Researcher at Örebro University (Remotely)	**Teaching courses:** Computer Architecture; Programming Fundamentals; Object-Oriented Programming; Data Structures and Algorithms; Digital Image Processing; Advanced Computer Vision; Programming for Robotics; Robotics: Perception; Introduction of Deep Learning. **Research Areas:** Computer vision, deep learning, robotics.
Jan 2018 – Dec 2021 Ph.D in Computer Science, Örebro University, Sweden. website Centre for Applied Autonomous Sensor Systems (AASS).	**Thesis:** *Vision-based Perception For Autonomous Robotic Manipulation.* web PDF **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.* **ILIAD Project**: *a key member of the EU-funded research project Iliad. website code video* video video
2016 – 1, 2017 Research Assistant at National Taiwan University (NTU)	**Project 1**: Innovative machine tool controller and optical modules for automated 3D pick & place and key dimension inspection on randomly stacked workpieces. video video **Project 2**: 3D surface reconstruction and automated robotic inspection system. video
2014 – 2015	Master of Science in Automation Technology from National Taipei University of Technology (NTUT). **Thesis**: Multi-View 3-D surface digitization using Automated robot scanning and image registration. video video
2009 – 2014	Bachelor, Control and Automation engineering, Hanoi University of Science and Technology (HUST).

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 (ISI/SCOPUS):

1. Hoang, D. C., Stork, J. A., & Stoyanov, T. Context-Aware Grasp Detection for Target Objects in Cluttered Scenes Using Deep Hough Voting. *IEEE International Conference on Robotics and Automation (ICRA 2022 - Accepted)*. PDF

2. 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. *(*also accepted and presented at *ICRA 2020)*. PDF *code video*

3. 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

4. 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

5. Chen, L. C., **Hoang, D. C.**, Lin, H. I., & Nguyen, T. H. (2016). Innovative methodology for multi-view point cloud registration in robotic 3D object scanning and reconstruction. Applied Sciences, 6(5), 132. PDF code video

6. Hoang, D. C., Stork, J. A., & Stoyanov, T. Voting and Attention-based Pose Relation Learning for Object Pose Estimation from 3D Point Clouds. *(RAL - Under Review)*. PDF

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.