Chau Pham Hai

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Education

University at Buffalo Aug 2023 - now

- Ph.D. Student in Computer Science and Engineering.

Hanoi University of Science and Technology Sep 2017 - May 2022

- Banchelor Degree of Mechatronics.

Nguyen Trai High School for the Gifted 2014 - 2017

- Major: Math.

Publications

- Thanh Nguyen, **Chau Pham**, Khoi Nguyen, and Minh Hoai, "Few-Shot Object Counting and Detection", in *European Conference on Computer Vision (ECCV)*, 2022.
- **Chau Pham**, Tuan Truong Vu, and Khoi Nguyen, "LP-OVOD: Open-Vocabulary Object Detection by Linear Probing on Pseudo Labels Retrieved from Top Relevant Box Proposals", in *Winter Conference on Applications of Computer Vision (WACV)*, 2024.

Research Experience

VinAI Research Resident Aug 2021 - present

- Research project: Open Vocabulary Object Detection.
  - Advisor: Dr. Khoi Nguyen.
  - Work: Introducing a new Open Vocabulary Object Detection approach that detects objects beyond a closed set of categories.
  - Result: A paper accepted at WACV 2023.
- Research project: Few-shot Counting and Detection.
  - Advisors: Dr. Khoi Nguyen and Prof. Minh-Hoai Nguyen.
  - Work: Introducing the few-shot object counting and detection problem, new datasets for evaluation, and an approach to address the problem.
  - Result: A paper published at ECCV 2022.
- Applied project: Cost for annotating bounding boxes and tracking algorithm.
  - Advisor: Duong Trung Tin - AI Engineer at VinAI.
  - Work: Design a cost for annotating the bounding box and implementing an unsupervised tracking algorithm.
  - Result: Designing the pipeline to make algorithms for a product.

VinAI Engineer Resident Dec 2020 - May 2021

- Project: Monocular 3D Object Detection.
  - Advisor: Bac Nguyen - AI Engineer at VinAI.
  - Work: Implementing a DETR-based Monocular 3D Object Detection and a Weakly supervised 3D Object Detection based on a set of keypoint.

Honors And Awards

- Consolation Prize in Vietnamese Mathematical Olympiad 2017.

- Scholarship from Hanoi University of Science and Technology, 2020.

Technical Skills

- **Programming Language**: Python (most proficient), C++, C, Java.
- **Library**: PyTorch, Numpy, Opencv.
- **Online courses**: Machine Learning and Deep Learning