

Dang Bui Dinh

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RESEARCH INTERESTS

Artificial Intelligent, Deep Learning, Computer Vision, Machine Vision, Image Super Resolution, Low-light Image Enhancement, Video Quality Enhancement, Video Coding.

EDUCATION

VNU - University of Engineering and Technology, Hanoi

Sept. 2021 – June 2025

B.S.Eng of Robotics Engineering

GPA 3.26/4.0, Thesis score: 9.1/10

EXPERIENCE

Research Assistant

June 2025 – Present

Department of Robotics Engineering, VNU - University of Engineering and Technology

- Advisor: Assoc. Prof. Hoang Van Xiem, Department of Robotics Engineering.
- Working on image and video processing using deep learning for machine vision tasks, video coding for machine (C++, Python, PyTorch, TensorFlow).

PROJECTS

ESRPCB - from Human Vision to Machine Vision Project

2024 – 2025

ESRPCB - deep learning model to enhance defect detection accuracy

- Developed a state-of-the-art framework combining super-resolution with edge-guided enhancement and ensemble object detection models.
- Achieved over 98% mean Average Precision (mAP) on a tiny PCB defect dataset using the proposed system.
- Work accepted and published in the *Engineering Applications of Artificial Intelligence* (Q1 journal).

RESEARCH PUBLICATIONS

Journal

[J1] X. Hoang Van, **D. Bui Dinh**, T. N. Canh and V. T. Nguyen, “*ESRPCB: An edge guided Super - Resolution model and ensemble learning for tiny Printed Circuit Board defect detection.*” *Engineering Applications of Artificial Intelligence*, 2025, 159, p.111547.

Conference

[C1] X.HoangVan, **D.BuiDinh**, S.NguyenQuang and W.-H.Peng, “*Compressed Video Quality Enhancement: Classifying and Benchmarking over Standards,*” 2025 International Conference on Advanced Technologies for Communications (ATC) (Accepted).

Patent

[P1] X. HoangVan, **D. BuiDinh**, “*Hệ thống và Phương pháp tạo ảnh Siêu phân giải,*” Vietnam Patent Application No. 1-2025-05274 (pending), 2025.

ADDITIONAL INFORMATION

Languages: Python, C/C++, Matlab, Kotlin

Technologies: Git, Bash, Jupyter, PyTorch, TensorFlow, Keras

Languages: English