

## PHỤ LỤC

(Ban hành kèm theo Thông tư số 06/2020/TT-BGDĐT ngày 19 tháng 3 năm 2020  
của Bộ trưởng Bộ Giáo dục và Đào tạo)

Mẫu số 03

### CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

#### Độc lập - Tự do - Hạnh phúc

### LÝ LỊCH KHOA HỌC

(Dành cho ứng viên/thành viên các Hội đồng Giáo sư)



#### 1. Thông tin chung

- Họ và tên: HOÀNG VĂN DŨNG.....
- Năm sinh: 1980 .....
- Giới tính: Nam.....
- Trình độ đào tạo (TS, TSKH) (năm, nơi cấp bằng): Tiến sĩ,  
năm 2015, tại Trường ĐH Ulsan, Hàn Quốc
- Chức danh Giáo sư hoặc Phó giáo sư (năm, nơi bổ nhiệm): .....

Bổ nhiệm lần đầu 2019, lần 2 năm 2021 tại Trường ĐH SPKT TP. Hồ Chí Minh

- Ngành, chuyên ngành khoa học: Công nghệ thông tin
- Chức vụ và đơn vị công tác hiện tại (hoặc đã nghỉ hưu từ năm): Phó trưởng khoa  
Công nghệ thông tin, Trường ĐH SPKT TP. Hồ Chí Minh
- Chức vụ cao nhất đã qua: Trưởng phòng .....
- Thành viên Hội đồng Giáo sư cơ sở (nếu có) (năm tham gia, tên hội đồng, cơ sở đào tạo):  
Hội đồng Giáo sư cơ sở năm 2024 của Trường ĐH SPKT TP. Hồ Chí Minh.
- Thành viên Hội đồng Giáo sư ngành (nếu có) (năm tham gia, tên hội đồng, nhiệm kỳ):  
.....

- Thành viên Hội đồng Giáo sư nhà nước (nếu có) (năm tham gia, tên hội đồng, nhiệm kỳ):

#### 2. Thành tích hoạt động đào tạo và nghiên cứu (thuộc chuyên ngành đang hoạt động)

##### 2.1. Sách chuyên khảo, giáo trình

a) Tổng số sách đã chủ biên: .....sách chuyên khảo; 02 giáo trình.

b) Danh mục sách chuyên khảo, giáo trình trong 05 năm liền kề với thời điểm được  
bổ nhiệm thành viên Hội đồng gần đây nhất (tên tác giả, tên sách, nhà xuất bản, năm  
xuất bản, mã số ISBN, chỉ số trích dẫn).

[1] Hoàng Văn Dũng, Xử lý ảnh số, NXB Đại học Quốc gia TP. HCM, 2024, ISBN:  
978-604-479-944-5.

## ***2.2. Các bài báo khoa học được công bố trên các tạp chí khoa học***

a) Tổng số đã công bố: 5 bài báo tạp chí trong nước; 25 bài báo tạp chí quốc tế thuộc danh mục Scopus/WoS SCIE.

b) Danh mục bài báo khoa học công bố trong 05 năm liền kề với thời điểm được bổ nhiệm thành viên Hội đồng gần đây nhất (*tên tác giả, tên công trình, tên tạp chí, năm công bố, chỉ số IF và chỉ số trích dẫn - nếu có*):

- Trong nước: Các bài báo tạp chí thuộc danh mục tính điểm của HDGSNN

[1] Trinh Thi Anh Loan, Pham The Anh, Le Viet Nam, Van-Dung Hoang, An effective deep learning model for recognition of animals and plants, Journal of Computer Science and Cybernetics, vol. 38, no. 1, p. 15–29, 2022 (trích dẫn 1).

[2] Dung Nguyen, Van-Dung Hoang\*, Van-Tuong-Lan Le, Applying Deep Learning Models for Weapon Detection in Public Environments Through Surveillance Cameras, Journal on Information Technologies & Communications, vol. 2025(1), pp.9-18, 2025.

- Quốc tế: Các bài báo tạp chí thuộc danh mục Scopus/WoS

[1] Khắc-Anh Phu, Van-Dung Hoang\*, Van-Tuong-Lan Le, Action Transformer: Model Improvement and Effective Investigation with MPOSE2021 and MSR Action 3D Datasets, Journal of Advanced Research in Applied Sciences and Engineering Technology, vol.62(1),pp. 76-89, 2026 (Scopus, Q3).

[2] Hoang Van Thanh, Nguyen Duy Quang, Tu Minh Phuong, Kang-Hyun Jo, Van-Dung Hoang\*, A Compact Version of EfficientNet for Skin Disease Diagnosis Application, Neurocomputing, Vol.620(1), pp.129166, 2025, (SCIE Q1, IF 5.5, trích dẫn 2).

[3] Van-Dung Hoang, Nhan T Huynh, Nguyen Tran, Khanh Le, Thi-Minh-Chau Le, Ali Selamat, Hien D Nguyen, Powering AI-driven car damage identification based on VeHIDE dataset, Journal of Information and Telecommunication, Taylor & Francis, vol. 9(1), pp. 24-43, 2025 (Scopus/WoS, Q2, trích dẫn 3).

[4] Thanh- An Pham, Van-Dung Hoang\*, Chest X-ray image classification using transfer learning and hyperparameter customization for lung disease diagnosis, Journal of Information and Telecommunication, Taylor & Francis, vol. 2024, pp. 1-15, 2024 (Scopus/WoS, Q2, trích dẫn 7).

[5] Van-Dung Hoang, Xuan-Thuy Vo, Kang-Hyun Jo, Categorical weighting domination for imbalanced classification with skin cancer in intelligent healthcare systems, IEEE Access, IEEE Press, Vol. 11, pp. 105170-105181, 2023, (SCIE Q1, IF 3.4, trích dẫn 8)

[6] Dong-Ho Le, Van-Dung Hoang\*, Application of Classification Methods in Forecasting Broadband Internet Subscribers Leaving the Network, International Journal of Machine Learning, Vol. 13 (1), pp. 13-30, 2022.

[7] Tri-Cong Pham, Chi-Mai Luong, Van-Dung Hoang, Antoine Doucet, AI outperformed every dermatologist in dermoscopic melanoma diagnosis, using an optimized deep-CNN architecture with custom mini-batch logic and loss function, Scientific Reports, Nature Publishing, vol. 11 (1), pp. 17485, 2021 (SCIE Q1, IF 3.8, trích dẫn 87)

[8] Diem-Phuc Tran, Gia-Nhu Nguyen, Van-Dung Hoang\*, Hyperparameter optimization for improving recognition efficiency of an adaptive learning system, IEEE Access, IEEE Press, vol. 8, pp. 160569-160580, 2020 (SCIE, IF 3.4, trích dẫn 14)

[9] Tri-Cong Pham, Antoine Doucet, Chi-Mai Luong, Cong-Thanh Tran, Van-Dung Hoang\*, Improving skin-disease classification based on customized loss function combined with balanced mini-batch logic and real-time image augmentation, IEEE Access, vol. 8, pp. 150725-150737, 2020 (SCIE, IF 3.4, trích dẫn 92)

[10] Tri-Cong Pham, Chi-Mai Luong, Antoine Doucet, Van-Dung Hoang, Diem-Phuc Tran, Duc-Hau Le, Meta-analysis of computational methods for breast cancer classification, International Journal of Intelligent Information and Database Systems, Inder Science, vol. 13(1), pp. 89-111, 2020 (Scopus, trích dẫn 4)

### **2.3. Các nhiệm vụ khoa học và công nghệ (chương trình và đề tài tương đương cấp Bộ trở lên)**

a) Tổng số chương trình, đề tài đã chủ trì/chủ nhiệm: 0 cấp Nhà nước; 03 Nafosted, 02 cấp Bộ và tương đương.

b) Danh mục đề tài tham gia đã được nghiệm thu trong 05 năm liền kề với thời điểm được bổ nhiệm thành viên Hội đồng gần đây nhất (*tên đề tài, mã số, thời gian thực hiện, cấp quản lý đề tài, trách nhiệm tham gia trong đề tài*):

[1] Nghiên cứu đề xuất giải pháp số hóa địa điểm danh lam thắng cảnh, du lịch QB trên nền tảng công nghệ Web và kỹ thuật 3D-Panoramic, 2019-2020, cấp tỉnh, chủ nhiệm đề tài.

[2] Nghiên cứu, phát triển mô hình mạng nơ ron nhân tạo học sâu và ứng dụng vào một số bài toán phát hiện đối tượng, mã số đề tài 102.05-2020.02, 2020-2023, đề tài Nafosted, thư ký khoa học.

### **2.4. Công trình khoa học khác (nếu có)**

a) Tổng số công trình khoa học khác:

- Tổng số có: ..... sáng chế, giải pháp hữu ích
- Tổng số có: ..... tác phẩm nghệ thuật
- Tổng số có: ..... thành tích huấn luyện, thi đấu

b) Danh mục bằng độc quyền sáng chế, giải pháp hữu ích, tác phẩm nghệ thuật, thành tích huấn luyện, thi đấu trong 5 năm trở lại đây (*tên tác giả, tên công trình, số hiệu văn bằng, tên cơ quan cấp*):

### **2.5. Hướng dẫn nghiên cứu sinh (NCS) đã có quyết định cấp bằng tiến sĩ**

a) Tổng số: 04 NCS đã hướng dẫn chính.

b) Danh sách NCS hướng dẫn thành công trong 05 năm liền kề với thời điểm được bổ nhiệm thành viên Hội đồng gần đây nhất (*Họ và tên NCS, đề tài luận án, cơ sở đào tạo, năm bảo vệ thành công, vai trò hướng dẫn*):

[1] Phạm Trí Công, Deep Learning customization models to enhance the efficiency of Cancer Diagnosis, USTH- Vietnam France University, 2021, đồng hướng dẫn.

[2] Trần Diễm Phúc, Adaptive learning solution based on deep learning for object recognition in traffic scenes, Trường Đại học Duy Tân, 2021, hướng dẫn chính.

### 3. Các thông tin khác

**3.1. Danh mục các công trình khoa học chính trong cả quá trình** (Bài báo khoa học, sách chuyên khảo, giáo trình, sáng chế, giải pháp hữu ích, tác phẩm nghệ thuật, thành tích huấn luyện, thi đấu...; khi liệt kê công trình, có thể thêm chủ dẫn về phân loại tạp chí, thông tin trích dẫn...):

[1] Khắc-Anh Phu, Van-Dung Hoang, Van-Tuong-Lan Le, Action Transformer: Model Improvement and Effective Investigation with MPOSE2021 and MSR Action 3D Datasets, Journal of Advanced Research in Applied Sciences and Engineering Technology, vol.62(1), pp. 76-89 (Scopus, 2025-Q3), 2026

[2] Hoang Van Thanh, Nguyen Duy Quang, Tu Minh Phuong, Kang-Hyun Jo, Van-Dung Hoang, A Compact Version of EfficientNet for Skin Disease Diagnosis Application, Neurocomputing, Vol.620(1), 129166 (SCIE, 2025-Q1), 2025

[3] Hai-Duong Le, Van-Dung Hoang, Enhancing Accuracy in Classification Models for Skin Disease Diagnosis based on Segformer and ConvNeXt Approach, Journal of Technical Education Science, (Accepted), 2025

[4] Khắc-Anh Phu, Van-Dung Hoang, Van-Tuong-Lan Le, Enhancing Action Recognition Using 3D Skeleton Reconstruction: Integrating MotioNet with AcTv2, Asian Conference on Intelligent Information and Database Systems, CCIS-Springer, vol. 2494, pp 121–132, 2025

[5] Dung Nguyen, Van-Dung Hoang, Van-Tuong-Lan Le, A Lightweight Transformer Model for Real-Time Object Detection on Edge Devices in Surveillance Camera Systems, Asian Conference on Intelligent Information and Database Systems, CCIS-Springer, vol. 2494, pp. 221-234, 2025

[6] Thanh-An Pham, Van-Dung Hoang, Doan-Hieu Tran, Van-Tuong-Lan Le, CerMixer: An Efficient Model for Cervical Cancer Classification Based on Patching and Multi-scale Depthwise Convolutional Fusion, Asian Conference on Intelligent Information and Database Systems (ACIIDS2025) LNCS (LNAI), Springer, vol.15683, pp 240–253, 2025

[7] Van-Dung Hoang, Nhan T Huynh, Nguyen Tran, Khanh Le, Thi-Minh-Chau Le, Ali Selamat, Hien D Nguyen, Powering AI-driven car damage identification based on VeHIDE dataset, Journal of Information and Telecommunication, Taylor & Francis, vol. 9(1), pp. 24-43 (Scopus-WoS, 2025-Q2), 2025

[8] Dung Nguyen, Van-Dung Hoang, Van-Tuong-Lan Le, Applying Deep Learning Models for Weapon Detection in Public Environments Through Surveillance Cameras, Journal on Information Technologies & Communications, vol. 2025(1), pp.9-18 (Accepted), 2025

[9] Ba-Duy Nguyen, Van-Dung Hoang, Hien D. Nguyen, Improved Skin Classification Performance Based on Hybrid Models, Asian Conference on Intelligent Information and Database Systems, CCIS-Springer, vol. 2494, pp 89–104, 2025

[10] Thanh-An Pham, Van-Dung Hoang, Chest X-ray image classification using transfer learning and hyperparameter customization for lung disease diagnosis, Journal of Information and Telecommunication, Taylor & Francis, vol. 2024, pp. 1-15 (Scopus/WoS, 2024-Q2), 2024

[11] Anh-Tu Nguyen-Phuong, Van-Dung Hoang, Development of Code Evaluation System based on Abstract Syntax Tree, Journal of Technical Education Science, Vol. 19(1), pp. 15-24, 2024

[12] Dung Nguyen, Van-Dung Hoang, Van-Tuong-Lan Le, V-DETR: Pure Transformer for End-To-End Object Detection, Asian Conference on Intelligent Information and Database Systems (ACIIDS), LNCS, Springer, vol. 14796, pp.120–131, 2024

- [13] Khac-Anh Phu, Van-Dung Hoang, Van-Tuong-Lan Le, Quang-Khai Tran, Omni-TransPose: Fusion of OmniPose and Transformer Architecture for Improving Action Detection, Asian Conference on Intelligent Information and Database Systems (ACIIDS), CCIS Springer, vol. 2145, pp. 59–70, 2024
- [14] Dung Nguyen, Van-Dung Hoang, Ba-Duy Nguyen, Van-Tuong-Lan Le, Transformer with MLP-like Approach for Improving Object Detection Efficiency, International Workshop on Intelligent Systems (IWIS), IEEE Press, pp. 1-6, 2024
- [15] Trung-Phien Nguyen, Van-Dung Hoang, Minh-Luan Su, Trong-Tri Bui, Ba-Duy Nguyen, Improving Skin Lesion Classification based on Fusion Multi-Learning Models, IEEE 9th International Conference on Data Science in Cyberspace (DSC), IEEE Computer Society, 810-817, 2024
- [16] Dung Nguyen, Van-Dung Hoang, Van-Tuong-Lan Le, Ngoc-Thuy Nguyen, Improvement of Small Object Detection Effectiveness Based on Swin Transformer, International Conference on Green Technology and Sustainable Development (GTSD), Springer, vol. 1195, pp.60-72, 2024
- [17] Minh-Trieu Truong, Van-Dung Hoang, Thi-Minh-Chau Le, Skeleton-Based Posture Estimation for Human Action Recognition Using Deep Learning, International Conference on Green Technology and Sustainable Development (GTSD), Springer, vol. 1195, pp. 85-98, 2024
- [18] Khac-Anh Phu, Van-Dung Hoang, Van-Tuong-Lan Le, Thinh Vinh Le, Enhancing Human Pose Estimation with SE-Block in the OmniPose Model, International Conference on Human System Interaction (HSI), IEEE Press, pp.1-6, 2024
- [19] Thanh-An Pham, Tien-Anh Nguyen, Quang-Vinh Tran, Van-Dung Hoang, Improve Breast Cancer Classification Based on Deep Feature Fusion and Hyperparameter Customization Using Transfer Learning, New Trends in Intelligent Software Methodologies, Tools and Techniques (SOMET), Frontiers in Artificial Intelligence and Applications, IOS Press, vol. 389, pp. 177 - 188, 2024
- [20] Van-Dung Hoang, Thanh-An Pham, Fusion of ViT Technique and Image Filtering in Deep Learning for Plant Pests and Diseases Recognition, International Conference on System Science and Engineering (ICSSE), pp. 438-443, IEEE Press, 2023
- [21] Thanh-An Pham, Van-Dung Hoang, Combination of Deep Learning and Ambiguity Rejection for Improving Image-Based Disease Diagnosis, Asian Conference on Intelligent Information and Database Systems (ACIIDS2023), Lecture Notes in Computer Science, Springer Nature, vol. 13995, pp. 147-160, 2023
- [22] Tri-Cong Pham, Van Duy Nguyen, Chi Hieu Le, Michael Packianather, Van-Dung Hoang, Artificial intelligence-based solutions for coffee leaf disease classification, International Conference on Marine Sustainable Development and Innovation, IOP Publishing, vol. 1278 (1), pp. 1-7, 2023
- [23] Van-Dung Hoang, Xuan-Thuy Vo, Kang-Hyun Jo, Categorical weighting domination for imbalanced classification with skin cancer in intelligent healthcare systems, IEEE Access, IEEE Press, Vol. 11, pp. 105170-105181 (SCIE, 2023-Q1), 2023
- [24] Nhan T Huynh, Nguyen ND Tran, Anh T Huynh, Van-Dung Hoang, Hien D Nguyen, VehiDE Dataset: New dataset for Automatic vehicle damage detection in Car insurance, 15th International Conference on Knowledge and Systems Engineering (KSE), IEEE Press, pp. 1-6, 2023
- [25] Xuan-Khoa Thai-Hoang, Van-Dung Hoang, Enhancing Brain Tumor Classification Through Customization of the Vision Transformer Learning, International Workshop on Intelligent Systems (IWIS), IEEE Press, pp. 1-5, 2023

- [26] Hoang-Phuoc-Toan Van, Van-Dung Hoang, Insulator Detection in Intelligent Monitoring Based on Yolo Family and Customizing Hyperparameters, *Journal of Technical Education Science*, vol. 18, pp. 69-77, 2023
- [27] Van-Dung Hoang, Xuan-Thuy Vo, Khac-Anh Phu, Kang-Hyun Jo , Fusion of Segmentation and Classification for Improving Skin Disease Diagnosis, *International Conference on Green Technology and Sustainable Development, Lecture Notes in Networks and Systems-Springer*, vol. 567, pp 144–154, 2022
- [28] Thi-Anh-Loan Trinh, The-Anh Pham , Van-Dung Hoang, Layout-invariant license plate detection and recognition, *International Conference on Multimedia Analysis and Pattern Recognition (MAPR)*, IEEE, pp. 1-6, 2022
- [29] Dong-Ho Le, Van-Dung Hoang, Application of Classification Methods in Forecasting Broadband Internet Subscribers Leaving the Network, *International Journal of Machine Learning*, Vol. 13 (1), pp. 13-30, 2022
- [30] Van-Thanh Hoang, Van-Dung Hoang, Kang-Hyun Jo, Rethinking Mobile Inverted Bottleneck Convolution for EfficientNet, *International Conference on Green Technology and Sustainable Development (GTSD2022)*, Springer, vol. 567, pp.35-445, 2022
- [31] Anh T. Huynh, Van-Dung Hoang, Sang Vu, Trong T. Le, Hien D. Nguyen, Skin cancer classification using different backbones of convolutional neural networks, *International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems (IEA/AIE2022)*, Springer, vol. 13343, pp.160-172, 2022
- [32] Xuan-Thuy Vo, Van-Dung Hoang, Duy-Linh Nguyen, Kang-Hyun Jo, Pedestrian head detection and tracking via global vision transformer, *International Workshop on Frontiers of Computer Vision (FCV2022)*, Springer, vol. 1578, pp. 155-167, 2022
- [33] MT Nguyen, AT Nguyen, Van-Dung Hoang, DD Lam, A feature extraction method for automatic identification of flying targets from radar data, *24th International Conference on Advanced Communication Technology (ICACT)*, IEEE, pp. 360-364, 2022
- [34] Trinh Thi Anh Loan, Pham The Anh, Le Viet Nam , Van-Dung Hoang, An effective deep learning model for recognition of animals and plants, *Journal of Computer Science and Cybernetics*, vol. 38, no. 1, p. 15–29, 2022
- [35] Tri-Cong Pham, Chi-Mai Luong, Van-Dung Hoang, Antoine Doucet, AI outperformed every dermatologist in dermoscopic melanoma diagnosis, using an optimized deep-CNN architecture with custom mini-batch logic and loss function, *Scientific Reports, Nature Publishing*, vol. 11 (1), pp. 17485 (SCIE, 2021-Q1), 2021
- [36] Tri-Cong Pham, Antonie Doucet, Van-Dung Hoang, Quang-Hoa Nguyen, Trong-Bach Phan, Cong-Thanh Tran, Tran-Tien Bui, Chi-Mai Luong, Van-Giang Bui, Evaluating the deep convolutional neural network for thyroid nodule detection on Vietnamese ultrasound dataset, *Advances in Intelligent Information Hiding and Multimedia Signal Processing (FITAT2020)*, Springer, vol. 212, pp.358-366, 2021
- [37] Van-Dung Hoang, Rice Leaf Diseases Recognition Based on Deep Learning and Hyperparameters Customization, *27th International Workshop on Frontiers of Computer Vision ( IW-FCV 2021)*, Springer, vol. 1405, pp. 189-200, 2021
- [38] Tri-Cong Pham, Antoine Doucet, Tran-Tien Bui, Minh-Sao-Khue Luu, Duy-Anh Mai, Chi-Mai Luong, Van-Dung Hoang, A New Feature Selection and Classification Approach for Optimizing Breast Cancer Subtyping Based on Gene Expression, *Advances in Intelligent Information Hiding and Multimedia Signal Processing (IIHMSP 2020)*, Springer, vol. 212, pp.298-307, 2021
- [39] Van-Dung Hoang, Kang-Hyun Jo, *Advanced Sensors and Vision Systems, Mechatronics and Robotics, 1st Edition Book* , CRC Press, pp.235-254, 2020

- [40] Van-Thanh Hoang, Van-Dung Hoang, Kang-Hyun Jo, Realtime multi-person pose estimation with rcnn and depthwise separable convolution, International Conference on Computing and Communication Technologies (RIVF), IEEE, pp. 1-5, 2020
- [41] Diem-Phuc Tran, Gia-Nhu Nguyen, Van-Dung Hoang, Hyperparameter optimization for improving recognition efficiency of an adaptive learning system, IEEE Access, IEEE Press, vol. 8, pp. 160569-160580 (SCIE, 2020-Q1), 2020
- [42] Tri-Cong Pham, Antoine Doucet, Chi-Mai Luong, Cong-Thanh Tran, Van-Dung Hoang, Improving skin-disease classification based on customized loss function combined with balanced mini-batch logic and real-time image augmentation, IEEE Access, vol. 8, pp. 150725-150737 (SCIE, 2020-Q1), 2020
- [43] Tri-Cong Pham, Chi-Mai Luong, Antoine Doucet, Van-Dung Hoang, Diem-Phuc Tran, Duc-Hau Le, Meta-analysis of computational methods for breast cancer classification, International Journal of Intelligent Information and Database Systems, Inderscience, vol. 13(1), pp. 89-111 (Scopus, 2020-Q3), 2020
- [44] Van-Dung Hoang, Van-Thanh Hoang, Kang-Hyun Jo, Hybrid deep learning and data augmentation for disease candidate extraction, 26th International Workshop on Frontiers of Computer Vision (IW-FCV 2020), Springer, vol. 1212, pp.274-286, 2020
- [45] Van-Dung Hoang, Diem-Phuc Tran, Nguyen Gia Nhu, The-Anh Pham, Van-Huy Pham, Deep feature extraction for panoramic image stitching, 12th Asian Conference on intelligent Information and Database Systems (ACIIDS 2020), Springer, LNAI, vol. 12034, pp. 141-151, 2020
- [46] Van-Dung Hoang, Cong-Hieu Le, The-Anh Pham, Human Identification Based on Shallow Learning Using Facial Features, Asian Conference on Intelligent Information and Database Systems (ACIIDS 2019), Springer, vol. 830, pp. 231-239, 2020
- [47] Diem-Phuc Tran, Van-Dung Hoang, Vehicle categorical recognition for traffic monitoring in intelligent transportation systems, Asian Conference on Intelligent Information and Database Systems (ACIIDS), LNCS, Springer, LNCS, vol. 11432, pp. 670-679, 2019
- [48] Van-Huy Pham, Kang-Hyun Jo, Van-Dung Hoang, Scalable local features and hybrid classifiers for improving action recognition, Journal of Intelligent & Fuzzy Systems, IOS Press, vol. 36 (4), pp. 3357-3372, (SCIE, 2019-Q2), 2019
- [49] Tri-Cong Pham, Giang Son Tran, Thi Phuong Nghiem, Antoine Doucet, Chi Mai Luong, Van-Dung Hoang, A comparative study for classification of skin cancer, International Conference on System Science and Engineering (ICSSE), IEEE, pp. 267-272, 2019
- [50] Tien-Thanh Nguyen, Van-Dung Hoang, Truc-Thanh Tran, A wireless physical layer security method based on binary Exclusive-Or jamming message and CSI alignment, International Conference on System Science and Engineering (ICSSE), IEEE, pp. 291-296, 2019
- [51] Van-Huy Pham, Diem-Phuc Tran, Van-Dung Hoang, Personal identification based on deep learning technique using facial images for intelligent surveillance systems, International Journal of Machine Learning and Computing, vol. 9(4), pp. 465-470, 2019
- [52] Diem-Phuc Tran, Van-Dung Hoang, Gia-Nhu Nguyen, Adaptive learning based on tracking and ReIdentifying objects using convolutional neural network, Neural Processing Letters, Springer, vol. 50 (1), pp. 263-282, (SCIE, 2019-Q2), 2019
- [53] Hoang-Thanh Vo, Van-Dung Hoang, Hybrid discriminative models for banknote recognition and anti-counterfeit, NAFOSTED conference on information and computer science (NICS), IEEE, pp. 394-399, 2018

- [54] Van-Dung Hoang, My-Ha Le, Truc Thanh Tran, Van-Huy Pham, Improving traffic signs recognition based region proposal and deep neural networks, Asian Conference on Intelligent Information and Database Systems (ACIIDS), LNCS, vol. 10752, pp. 604-613, 2018
- [55] Diem-Phuc Tran, Nguyen Gia Nhu, Van-Dung Hoang, Pedestrian action prediction based on deep features extraction of human posture and traffic scene, Asian Conference on Intelligent Information and Database Systems (ACIIDS), LNCS, Springer, vol. 10752, pp. 563-572, 2018
- [56] Tri-Cong Pham, Chi-Mai Luong, Muriel Visani, Van-Dung Hoang, Deep CNN and data augmentation for skin lesion classification, Asian Conference on Intelligent Information and Database Systems (ACIIDS), LNCS, Springer, vol. 10752, pp. 573-582, 2018
- [57] Diem-Phuc Tran, Van-Dung Hoang, Tri-Cong Pham, Chi-Mai Luong, Pedestrian activity prediction based on semantic segmentation and hybrid of machines, Journal of Computer Science and Cybernetics, vol. 34 (2), pp. 113-125, 2018
- [58] Van-Dung Hoang, Duong-Hung Hoang, Cong-Le Hieu, Action recognition based on sequential 2D-CNN for surveillance systems, 44th Annual Conference of the IEEE Industrial Electronics Society (IECON), IEEE, pp. 3225-3230, 2018
- [59] Van-Dung Hoang, Van-Dat Dang, Tien-Thanh Nguyen, Diem-Phuc Tran, A solution based on combination of RFID tags and facial recognition for monitoring systems, NAFOSTED Conference on Information and Computer Science (NICS), IEEE, pp. 384-387, 2018
- [60] Van-Huy Pham, My-Ha Le, Van-Dung Hoang, Boosting Discriminative Models for Activity Detection Using Local Feature Descriptors, Asian Conference on Intelligent Information and Database Systems (ACIIDS), LNCS, Springer, vol. 10191, pp. 609-618, 2017
- [61] Van-Dung Hoang, Multiple classifier-based spatiotemporal features for living activity prediction, Journal of Information and Telecommunication, Taylor & Francis, vol. 1(1), pp. 100-112, 2017
- [62] True Thanh Tran, Duy HN Nguyen, Sinh VB Nguyen, Van-Dung Hoang, A method to approximate the transmission rate of phase signal with amplitude uncertainty, International Conference on Recent Advances in Signal Processing, Telecommunications & Computing (SigTelCom), IEEE, PP. 240-245, 2017
- [63] Van-Dung Hoang, My-Ha Le, Kang-Hyun Jo, Motion estimation based on two corresponding points and angular deviation optimization, IEEE Transactions on Industrial Electronics, vol. 64(11), pp. 8598-8606, 2017
- [64] Van-Thanh Hoang, Van-Dung Hoang, Kang-Hyun Jo, An improved method for 3d shape estimation using cascade of neural networks, International Conference on Industrial Informatics (INDIN), IEEE, vol. 285-289, 2017
- [65] Van-Dung Hoang, Kang-Hyun Jo, Accelerative Object Classification Using Cascade Structure for Vision Based Security Monitoring Systems, Asian Conference Intelligent on Information and Database Systems (ACIIDS2016), LNAI, Springer, vol. 9621, pp. 790–800, 2016
- [66] Wahyono, Van-Dung Hoang, Kang-Hyun Jo, Multiscale car detection using oriented gradient feature and boosting machine, Asian Conference on Intelligent Information and Database Systems (ACIIDS2016), LNAI, Springer, vol. 9621, pp.731-740, 2016
- [67] Van-Dung Hoang, Kang-Hyun Jo, A simplified solution to motion estimation using an omnidirectional camera and a 2-D LRF sensor, Transactions on Industrial Informatics, IEEE, vol. 12 (3), pp. 1064-1073, 2016
- [68] Van-Dung Hoang, Kang-Hyun Jo, Joint components based pedestrian detection in crowded scenes using extended feature descriptors, Neurocomputing, Elsevier, vol. 188, pp. 139-150, 2016

- [69] My-Ha Le, Hoang-Hon Trinh, Van-Dung Hoang, Kang-Hyun Jo, Automated architectural reconstruction using reference planes under convex optimization, *International Journal of Control, Automation and Systems*, Springer, vol. 14 (30), pp. 814-826, 2016
- [70] My-Ha Le, Van-Dung Hoang, Van-Thuyen Ngo, Electrical colored wires inspection algorithm for automatic connector producing machines, *International Conference on System Science and Engineering (ICSSE)*, IEEE, pp. 1-4, 2016
- [71] Laksono Kurnianggoro, Van-Dung Hoang, Kang-Hyun Jo, Calibration of a 2D laser scanner system and rotating platform using a point-plane constraint, *Computer Science and Information Systems*, vol. 12(1), pp. 307-322, 2015
- [72] Van-Dung Hoang, Danilo Caceres Hernandez, Alexander Filonenko, Kang-Hyun Jo, Path Planning for Unmanned Vehicle Motion Based on Road Detection Using Online Road Map and Satellite Image, *Asian Conference on Computer Vision (ACCV2014)*, LNCS-Springer, vol. 9009, pp. 433-447, 2015
- [73] Alexander Filonenko, Danilo Cáceres Hernández, Van-Dung Hoang, Kang-Hyun Jo, Smoke Detection for Autonomous Vehicles using Laser Range Finder and Camera, *28th International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems (IEA/AIE2015)*, vol. 9101, pp. 601-610, 2015
- [74] Van-Dung Hoang, Kang-Hyun Jo, Path planning for autonomous vehicle based on heuristic searching using online images, *Vietnam Journal of Computer Science*, Springer, vol. 2, pp. 109-120, 2015
- [75] Laksono Kurnianggoro, Van-Dung Hoang, Kang-Hyun Jo, Calibration of rotating 2d laser range finder using circular path on plane constraints, *International Conference on Computational Collective Intelligence (ICCCI 2014)*, *New Trends in Computational Collective Intelligence*, Springer, vol 572, pp 155–163, 2015
- [76] Joko Hariyono, Van-Dung Hoang, Kang-Hyun Jo, Human detection from omnidirectional camera using feature tracking and motion segmentation, *Asian Conference on Intelligent Information and Database Systems (ACIIDS 2015)*, *Lecture Notes in Computer Science*, Springer, vol. 9012, pp. 329-338, 2015
- [77] Van-Dung Hoang, Kang-Hyun Jo, Combined Motion Estimation and Tracking Control for Autonomous Navigation, *Asian Conference Intelligent Information and Database Systems (ACIIDS 2015)*, *LNAI-Springer*, vol. 9012, pp. 349-358, 2015
- [78] Joko Hariyono, Van-Dung Hoang, Kang-Hyun Jo, Tracking failure detection using time reverse distance error for human tracking, *28th International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems (IEA/AIE)*, *LNAI-Springer*, vol. .pp. 611–620, 2015
- [79] Truc Thanh Tran, Dac-Binh Ha, Van-Dung Hoang, Gia Nhu Nguyen, I-Q based cooperative spectrum sharing in system with multiple SU transmitters and common receiver, *International Conference on Communications, Management and Telecommunications (ComManTel2015)*, IEEE, pp. 18-23, 2015
- [80] Kang-Hyun Jo , Van-Dung Hoang, My-Ha Le, Hyun-Deok Kang, Local descriptors based random forests for human detection, *Science and Technology Development Journal*, *VNUHCM Press*, vol. 18 (K6), pp. 199-209, 2015
- [81] Kang-Hyun Jo, Automatic calibration of camera and LRF based on morphological pattern and optimal angular back-projection error, *International Journal of Control, Automation and Systems*, Springer, vol. 13(6), 1436-1445, 2015
- [82] Van-Dung Hoang, Danilo Cáceres Hernández, Kang-Hyun Jo, Simple and efficient method for calibration of a camera and 2D laser rangefinder, *Asian Conference on Intelligent Information and Database Systems (ACIIDS)*, LNCS, Springer, vol. 8397, pp. 561-570, 2014

- [83] Joko Hariyono, Van-Dung Hoang, Kang-Hyun Jo, Human detection from mobile omnidirectional camera using ego-motion compensated, Asian Conference on Intelligent Information and Database Systems, LNCS, Springer, vol. 8397, pp. 553-560, 2014
- [84] Van-Dung Hoang, Danilo Cáceres Hernández, Kang-Hyun Jo, Partially obscured human detection based on component detectors using multiple feature descriptors, International Conference on Intelligent Computing Theory (ICIC), LNCS, Springer, vol. 8588, pp. 338-344, 2014
- [85] Joko Hariyono, Van-Dung Hoang, Kang-Hyun Jo, Motion segmentation using optical flow for pedestrian detection from moving vehicle, International Conference on Computational Collective Intelligence: Technologies and Applications: , (ICCCI), LNCS, Springer, vol. 8733, pp. 204-213, 2014
- [86] Danilo Cáceres Hernández, Van-Dung Hoang, Kang-Hyun Jo, Methods for vanishing point estimation by intersection of curves from omnidirectional image, Asian Conference on Intelligent Information and Database Systems (ACIIDS), LNCS, Springer, vol. 8397, pp. 543-552, 2014
- [87] Danilo Cáceres Hernández, Van-Dung Hoang, Alexander Filonenko, Kang-Hyun Jo, Fuzzy logic guidance control systems for autonomous navigation based on omnidirectional sensing, International Conference on Industrial Engineering and Other Applications of Applied Intelligent Systems, (IEA/AIE), LNCS, Springer, vol. 8481, pp. 420-429, 2014
- [88] Danilo Cáceres Hernández, Van-Dung Hoang, Kang-Hyun Jo, Vanishing Point Estimation in Urban Roads for Omnidirectional Image, Advances in Intelligent Systems and Computing (Human-Computer Systems Interaction: Backgrounds and Applications), Springer, vol. 300, pp. 313–323, 2014
- [89] Van-Dung Hoang, Kang-Hyun Jo , Optimal Partial Rotation Error for Vehicle Motion Estimation Based on Omnidirectional Camera, International Conference on Computational Collective Intelligence: Technologies and Applications (ICCCI), LNCS, Springer, vol. 8733, pp. 292-301, 2014
- [90] Danilo Cáceres Hernández, Van-Dung Hoang, Alexander Filonenko, Kang-Hyun Jo, Vision-based heading angle estimation for an autonomous mobile robots navigation, 23rd International Symposium on Industrial Electronics (ISIE), IEEE, vol. 1967-1972, 2014
- [91] Van-Dung Hoang, Danilo Cáceres Hernández, Han-Sung Park, Kang-Hyun Jo, Closed-form solution to 3D points for estimating extrinsic parameters of camera and laser sensor, 23rd International Symposium on Industrial Electronics (ISIE), IEEE, pp. 1932-1937, 2014
- [92] Van-Dung Hoang, Danilo Cáceres Hernández, Joko Hariyono, Kang-Hyun Jo, Global path planning for unmanned ground vehicle based on road map images, International Conference on Human System Interactions (HSI), IEEE, pp. 82-87, 2014
- [93] Danilo Cáceres Hernández, Van-Dung Hoang, Kang-Hyun Jo, Laser based obstacle avoidance strategy for autonomous robot navigation using DBSCAN for versatile distance, International Conference on Human System Interactions (HSI), IEEE, pp. 112-117, 2014
- [94] Van-Dung Hoang, My-Ha Le, Kang-Hyun Jo, Hybrid cascade boosting machine using variant scale blocks based HOG features for pedestrian detection, Neurocomputing, Elsevier, vol. 135, pp. 357-366, 2014
- [95] Van-Dung Hoang, Danilo Cáceres Hernández, Dongwook Seo, Kang-Hyun Jo, Optimal angular back-projection error for vehicle motion estimation using omnidirectional vision, IEEE/ASME International Conference on Advanced Intelligent Mechatronics, IEEE, 658-663, 2014

- [96] Joko Hariyono, Van-Dung Hoang, Kang-Hyun Jo, Moving object localization using optical flow for pedestrian detection from a moving vehicle, *The Scientific World Journal*, Hindawi, vol. 2014, pp. 1-9, 2014
- [97] Joko Hariyono, Van-Dung Hoang, Kang-Hyun Jo, Location classification of detected pedestrian, *International Conference on Control, Automation and Systems (ICCAS)*, IEEE, pp. 599-602, 2014
- [98] Alexander Filonenko, Van-Dung Hoang, Kang-Hyun Jo, Smoke detection on roads for autonomous vehicles, *Annual Conference of the IEEE Industrial Electronics Society (IECON)*, IEEE, pp. 4063-4066, 2014
- [99] Danilo Cáceres Hernández, Van-Dung Hoang, Alexander Filonenko, Kang-Hyun Jo, Local path planning strategy: a practical implementation for versatile distance, *Annual Conference of the IEEE Industrial Electronics Society (IECON)*, IEEE, pp. 4028-4033, 2014
- [100] Van-Dung Hoang, Dongwook Seo, Laksono Kurnianggoro, Kang-Hyun Jo, Path planning and global trajectory tracking control assistance to autonomous vehicle, *International Conference on Ubiquitous Robots and Ambient Intelligence (URAI)*, IEEE, pp. 646-650, 2014
- [101] Van-Dung Hoang, Laksono Kurnianggoro, Kang-Hyun Jo, Scalable histogram of oriented gradients for multi-size car detection, *France-Japan/Europe-Asia Congress on Mechatronics (MECATRONICS)*, IEEE, pp. 228-231, 2014
- [102] Van-Dung Hoang, My-Ha Le, Danilo Cáceres Hernández, Kang-Hyun Jo, Error reduction for large rotational motion estimation of autonomous vehicle, *France-Japan/Europe-Asia Congress on Mechatronics (MECATRONICS)*, IEEE, pp. 224-227, 2014
- [103] Danilo Cáceres Hernández, Van-Dung Hoang, Kang-Hyun Jo, Lane surface identification based on reflectance using laser range finder, *International Symposium on System Integration (SICE)*, IEEE, pp. 621-625, 2014
- [104] Van-Dung Hoang, Danilo Cáceres Hernández, Kang-Hyun Jo, Combining edge and one-point ransac algorithm to estimate visual odometry, *9th International Conference on Intelligent Computing Theories (ICIC)*, LNCS, Springer, vol. 7995, pp. 556-565, 2013
- [105] Danilo Cáceres Hernández, Van-Dung Hoang, Kang-Hyun Jo, Vanishing point based image segmentation and clustering for omnidirectional image, *International Conference Intelligent Computing Theories and Technology (ICIT)*, LNCS, Springer, vol. 7996, pp. 541-550, 2013
- [106] Van-Dung Hoang, My-Ha Le, Kang-Hyun Jo, Planar motion estimation using omnidirectional camera and laser rangefinder, *International Conference on Human System Interactions (HSI)*, IEEE, pp. 632-636, 2013
- [107] Danilo Cáceres Hernández, Van-Dung Hoang, Kang-Hyun Jo, Iterative vanishing point estimation based on DBSCAN for omnidirectional image, *International Conference on Human System Interactions (HSI)*, IEEE, pp. 651-655, 2013
- [108] My-Ha Le, Van-Dung Hoang, Andrey Vavilin, Kang-Hyun Jo, One-point-plus for 5-DOF localization of vehicle-mounted omnidirectional camera in long-range motion, *International Journal of Control, Automation and Systems*, Springer, vol. 11 (1), pp. 1018-1027, 2013
- [109] Van-Dung Hoang, Danilo Cáceres Hernández, My-Ha Le, Kang-Hyun Jo, 3D motion estimation based on pitch and azimuth from respective camera and laser rangefinder sensing, *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, IEEE, vol. 735-740, 2013
- [110] Van-Dung Hoang, My-Ha Le, Danilo Cáceres Hernández, Kang-Hyun Jo, Localization estimation based on Extended Kalman filter using multiple sensors, *Annual Conference of the IEEE Industrial Electronics Society (IECON)*, IEEE, pp. 5498-5503, 2013

[111] Van-Dung Hoang, Andrey Vavilin, Kang-Hyun Jo, Fast human detection based on parallelogram haar-like features, 38th Annual Conference on IEEE Industrial Electronics Society (IECON2012), IEEE, pp. 4220-4225, 2012

[112] Ming Qing, Van-Dung Hoang, Kang-Hyun Jo, Localization and tracking of same color vehicle under occlusion problem, Europe-Asia Congress on Mechatronics (MECATRONICS), IEEE, pp. 245-250, 2012

[113] Van-Dung Hoang, Andrey Vavilin, Kang-Hyun Jo, Pedestrian detection approach based on modified Haar-like features and AdaBoost, 12th International Conference on Control, Automation and Systems, IEEE, 614-618, 2012

[114] My-Ha Le, Van-Dung Hoang, Andrey Vavilin, Kang-Hyun Jo, Vehicle localization using omnidirectional camera with GPS supporting in wide urban area, Asian Conference on Computer Vision (ACCV 2012)- Workshops, Springer, vol. 7728, pp. 230–241, 2012

[115] Van-Dung Hoang, Thi-Dung Vo, OOP with ObjectStore database management systems, International Conference on Science, Technology and Innovation for Sustainable Well-Being (STISWB II), pp. 1-5, 2010

[116] Van-Dung Hoang, Duc-Thi Vu, The application of data clustering technique in the result classification data searching, Kỷ yếu hội thảo Quốc gia: Một số vấn đề chọn lọc của CNTT&TT (@2007), Đại Lải, NXB Khoa học tự nhiên và Công nghệ, trang 32-39, 2008

### **3.2. Giải thưởng về nghiên cứu khoa học trong và ngoài nước (nếu có):**

01 Bằng lao động sáng tạo của Tổng liên đoàn lao động Việt Nam năm 2017, 02 bài báo xuất sắc tại hội nghị khoa học quốc tế (HSI 2013 và ICCCI2014), được ghi nhận là phản biện có đóng góp xuất sắc cho tạp chí quốc tế ISI (Journal of Computational Science, Elsevier, SCIE, IF 2.591), đóng góp xuất sắc 10 năm (2018) và 15 năm (2023) hội thảo Các hệ cơ sở dữ liệu và thông tin thông minh (ACIIDS).

### **3.3. Các thông tin về chỉ số định danh ORCID, hồ sơ Google scholar, H-index, số lượt trích dẫn (nếu có):**

ORCID: 0000-0001-7554-1707,

Google scholar:user=MeZq\_d4AAAAJ, số trích dẫn 1435, h-index 19, i10-index 43

### **3.4. Ngoại ngữ**

- Ngoại ngữ thành thạo phục vụ công tác chuyên môn: tiếng Anh .....

- Mức độ giao tiếp bằng tiếng Anh: tốt .....

*Tôi xin cam đoan những điều khai trên là đúng sự thật, nếu sai tôi xin hoàn toàn chịu trách nhiệm trước pháp luật.*

*Tp. Hồ Chí Minh, ngày 12 tháng 5 năm 2025*

**NGƯỜI KHAI**

*(Ký và ghi rõ họ tên)*

Hoàng Văn Dũng