VU DUC QUANG

Research Scholar - Computer Science & Engineering

CONTACT

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My research interests are computer vision, image processing, machine learning and AI, optimazation and approximate algorithms.

SKILLS

Machine Learning	4+ yrs
Deep Learning	4+ yrs
Python	4+ yrs
C++	3+ yrs
C#	2+ yrs
Linux	3+ yrs

EDUCATION

Ph.D. - Computer Science & Information Engineering — **2017 - ongoing**
National Central University, Taoyuan, Taiwan

Current Status: Prepare for thesis defense.

Master. - Information System — **2013 - 2016**
VNU University of Engineering and Technology, Ha Noi, Vietnam

Passed with **2.91 GPA**. Thesis mark A+ with the title "Application of ant colony optimization to solve facility location problem".

Bachelor. - Information Education — **2009 - 2013**
Thai Nguyen University of Education, Thai Nguyen, Vietnam

Passed with **2.85 GPA**.

WORK EXPERIENCE

Lecturer — **Sep 2013 - Now**
Department of Information System - Faculty of Mathematic - Thai Nguyen University of Education (Vietnam)

PUBLICATIONS

(2+1)D Distilled ShuffleNet: A Lightweight Unsupervised Distillation Network for Human Action Recognition — **Top Conference**
Duc-Quang Vu, Ngan Le, and Jia-Ching Wang,

IEEE International Conference on Pattern Recognition (ICPR), 2022

Selective Mutual Learning: An Efficient Approach for Single Channel Speech Separation — **Top Conference**
H. M. Tan, D. -Q. Vu, C. -T. Lee, Y. -H. Li and J. -C. Wang

IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2022, pp. 3678-3682

Self-knowledge Distillation: An Efficient Approach for Falling Detection — **SCOPUS**
Duc, Q., Phung, T., Nguyen, M., Nguyen, B., Nguyen, T.

Lecture Notes on Data Engineering and Communications Technologies, vol 124. Springer, Cham. https://doi.org/10.1007/978-3-030-97610-1_29

ACHIEVEMENTS

AWARDS AND HONOURS

- 2^{nd} in National Informatics Olympiad for Universities, Vietnam in 2009.
- 3^{rd} in National Informatics Olympiad for Universities, Vietnam in 2011.
- 4^{th} in Young Scientist Talent Contest for Universities, Vietnam in 2012.

A (2+1)D Attention Convolutional Neural Network for Video Prediction — SCOPUS
Phung, T., Nguyen, V.T., Ma, T.H.T., Duc, Q.V.

Lecture Notes on Data Engineering and Communications Technologies, vol 124. Springer, Cham. https://doi.org/10.1007/978-3-030-97610-1_31

Teaching Yourself: A Self-Knowledge Distillation Approach to Action Recognition — SCIE - IF 3.36
D. -Q. Vu, N. Le and J. -C. Wang

IEEE Access, vol. 9, pp. 105711-105723, 2021

A Novel Self-Knowledge Distillation Approach with Siamese Representation Learning for Action Recognition — Top Conference
D. -Q. Vu, T. -T. -T. Phung and J. -C. Wang

International Conference on Visual Communications and Image Processing (VCIP), 2021, pp. 1-5

Self-Supervised Learning for Action Recognition by Video Denoising — SCOPUS
T. T. Trang Phung, T. Hong Thu Ma, V. T. Nguyen and D. Quang Vu

International Conference on Computing and Communication Technologies (RIVF), 2021, pp. 1-6

Age and Gender Recognition Using Multi-task CNN — SCOPUS
D. -Q. Vu, T. -T. -T. Phung, C. -Y. Wang and J. -C. Wang

Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC), 2019, pp. 1937-1941

A Hybrid Tabu Search-Based Artificial Immune Algorithm For Construction Site Layout Optimization
Vu Duc Quang, Hoang Xuan Huan, Nguyen Van Truong, Vu Thi Thuy

Journal of Research and Development on Information and Communication Technology, 2018, 03(15), pp. 1-7.

A hybrid algorithm between aiNet and Tabu search solves the problem of Single Row Facility Layout
Phung Thi Thu Trang, Ngan Hoang My Linh, Vu Duc Quang

Journal of Science and Technology, Thai Nguyen University, 2017, 02(162), pp. 171-175.

An improved artificial immune network for solving construction site layout optimization — SCOPUS
D. Q. Vu, V. T. Nguyen and X. H. Hoang

IEEE RIVF International Conference on Computing & Communication Technologies, Research, Innovation, and Vision for the Future (RIVF), 2016, pp. 37-42

An efficient algorithm based on the ant colony optimization algorithm to solve the r|p centroid problem
D. Q. Vu, X. H. Hoang and Do Thanh Mai

FAIR 09, 2016, pp. 488-494

Some improvements of selection algorithms for spam email filtering
Nguyen Van Truong, Pham Dinh Lam, Vu Duc Quang

Journal of Science and Technology, Thai Nguyen University, 2016, 6 (151), 85-91.

Email SPAM Filtering Using R-Chunk Detector-Based Negative Selection Algorithm

Vu Duc Quang, Vu Manh Xuan, Nguyen Van Truong, Phung Thi Thu Trang

Journal of Science and Technology, Thai Nguyen University,2015, 135 (05), 185-189.

A fast r-chunk detector-based negative selection algorithm

Nguyen Van Truong, Vu Duc Quang, Trinh Van Ha

Journal of Science and Technology, Thai Nguyen University, 2012, 2 (90), 55-58.