1. Name: **BUI HUY TOAN**

2. Education

Degree	Field	Institution	Year
Post-doc	AI and medical Image Processing	Tokai University, Nagakawa, Japan	2023
Ph.D.	AI and medical Image Processing	Tokai University, Tokyo, Japan	2022
M.Sc.	Computing in Engineering System	King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailan	2018
B.Sc.	Information Technology	Hanoi University of Science and Technology, Hanoi, Vietnam	2016

3. Academic experience

Institution	Rank, Title	Year/Period	FT/PT
Phenikaa University	Lecturer	2023 – Present	FT
Tokai University	Research Assistant	2022 – 2023	FT
Tokai University	Ph.D. Candidates	2019 – 2022	FT

4. Non-academic experience

Company	Position	Year/Period	FT/PT
S-Phenikaa, Hanoi, Vietnam	Engineering	3/2023 – Present	PT

5. Certifications or professional registrations
- Microsoft network essential

6. Current membership in professional organizations
   N/A

7. Honors and awards
   N/A

8. Service activities
   N/A

9. Briefly list the most important publications and presentations
- P. Intaraprasit, T. H. Bui, and M. P. Paing, "MobileNetV2-based Deep Learning for Retinal Disease Classification on a Mobile Application," in 15th Biomedical Engineering International Conference, Tokyo, 2023. https://doi.org/10.1109/bmeicon60347.2023.10322079
- T. H. Bui, K. Hamamoto, M. P. Paing, and L. K. Bui, "Multi-Disease Classification of COVID-19 in Chest Radiographs using Ensemble of Optimized Deep Learning Models," in 15th Biomedical Engineering International Conference, Tokyo, 2023. https://doi.org/10.1109/bmeicon60347.2023.10321967
- M. P. Paing, A. Sento, T. H. Bui, and C. Pintavirooj, "Instance Segmentation of Multiple Myeloma Cells Using Deep-Wise Data Augmentation and Mask R-CNN," (in eng), Entropy (Basel), vol. 24, no. 1, Jan 17 2022. https://doi.org/10.3390/e24010134

- T. H. Bui, K. Hamamoto, and M. P. Paing, "Tooth Localization using YOLOv3 for Dental Diagnosis on Panoramic Radiographs," IEEJ Transactions on Electronics, Information and Systems, vol. 142, no. 5, pp. 557-562, 2022. https://doi.org/10.1541/ieejeiss.142.557
- T. H. Bui, K. Hamamoto, and M. P. Paing, "Automated Caries Screening Using Ensemble Deep Learning on Panoramic Radiographs," Entropy, vol. 24, no. 10, p. 1358, 2022. https://doi.org/10.3390/e24101358
- T. H. Bui, K. Hamamoto, and M. P. Paing, "Deep Fusion Feature Extraction for Caries Detection on Dental Panoramic Radiographs," Applied Sciences, vol. 11, no. 5, p. 2005, 2021. https://doi.org/10.3390/app11052005
- M. P. Paing, S. Tungjitkusolmun, T. H. Bui, S. Visitsattapongse, and C. Pintavirooj, "Automated Segmentation of Infarct Lesions in T1-Weighted MRI Scans Using Variational Mode Decomposition and Deep Learning," Sensors, vol. 21, no. 6, p. 1952, 2021. https://doi.org/10.3390/s21061952
- T. Bui, N. Maneerat, and U. Watchareeruetai, "Detection of cotton wool for diabetic retinopathy analysis using neural network," in 2017 IEEE 10th International Workshop on Computational Intelligence and Applications (IWCIA), Hiroshima, 2017. https://doi.org/10.1109/iwcia.2017.8203585

10. Briefly list the most recent professional development activities
N/A