Chuong Huynh

Website: https://hmchuong.github.io/ Email: minhchuong.itus@gmail.com LinkedIn: chuong-huynh GitHub: github.com/hmchuong

EDUCATION

University of Science - Vietnam National University

Bachelor of Science in Honors Program - Information Technology

- GPA: 3.56/4.00

- Program ranking: 8/45

- Thesis: 4.00/4.00

Ho Chi Minh City, Vietnam

Ho Chi Minh City, Vietnam

2014 - 2018

From 7/2019

1-6/2019

EXPERIENCE

VinAI Research Hanoi, Vietnam

Resident at AI Residency Program

- High-resolution Semantic Segmentation

- Build a model that effectively segments high-resolution images

Cao Thang International Hospital

AI Engineer

- Retinal Disease Diagnosis

- Using Deep Neural Networks to support doctors in disease diagnosis

AI Lab, VNU-HCMUS

Ho Chi Minh City, Vietnam 11/2016-2/2017 Research Intern

- Medical Diagnosis and Searching System
- Using clustering algorithms to group crawled medical data and build semantic graph about diseases

Publications

- Chuong Huynh, Anh Tran, Khoa Luu, and Minh-Hoai Nguyen. "Progressive Semantic Segmentation". In: under review at CVPR 2021. 2020.
- Chuong Huynh, Trung-Hieu Nguyen, and Minh-Triet Tran. "Context Learning for Bone Shadow Exclusion in CheXNet Accuracy Improvement". In: KSE 2018. 2018.

TEACHING

• Lecturer at VietAI From 9/2018

Machine Learning Foundation and Advanced Computer Vision Class

• Instructor at U.S. Embassy in Hanoi 11-12/2019

Get-In-Tech series: Artificial Intelligence & Machine Learning

PROJECTS

High-res image segmentation (From 7/2019): To build a multi-scale network that can leverage global information and local details in different scale levels. The model effectively segments high-resolution images under memory constraints with a large margin from other SOTA methods. This project is submitted to CVPR 2021.

Thorax Disease Diagnosis (2017-2018): By building an autoencoder to automatically exclude bone shadow from chest X-ray images, the processed images can help diagnosis models work better. This project was accepted at KSE 2018.

Retinal Disease Diagnosis (2019): Helping doctors in a variety of tasks relating to retinal diagnosis with color fundus images: detect and segment retinal components and lesions with Mask-CNN and U-net; predict retinal diseases with accuracy > 95% with EfficientNet models; deploy and integrate models to the hospital system.

VNCare (2016-2017): Using Vietnamese Tokenizer and clustering algorithms to extract information from crawled text, we built a medical search tool that helps patients diagnosis their illness by input symptoms.

AWARDS

• Top 2% in FGVC Challenge, CVPRW 2020	2020
• Third Prize in Ho Chi Minh City - AI City Challenge, Vietnam	2020
• Bronze medal (top 7%) in APTOS Kaggle Competition	2019
• Best poster presentation in Southeast Asia Machine Learning School, Indonesia	2019
• Third Prize in National Eureka Award, Vietnam	2018
• Third Prize in Olympiad in Informatics for Students, Vietnam	2015

SKILLS LANGUAGES

• **Programming languages:** Python, C/C++, Java, Javascript, Android/iOS

• ML Frameworks: Pytorch, Tensorflow

• Others: Git, Docker, OpenCV, Kafka, Spark

• Vietnamese: Native

• English: Fluent

- **IELTS:** 7.0 (L: 7.5, R: 6.5, W: 7.0, S: 6.5)

REFERENCES

• Professor Minh Hoai

Email: minhhoai@cs.stonybrook.edu

• Professor Khoa Luu Email: khoaluu@uark.edu

• Ph.D. Anh Tran
Email: v.anhtt152@vinai.io

• Professor Minh-Triet Tran

Email: tmtriet@fit.hcmus.edu.vn

• Ph.D. Minh-Thang Luong

Email: thangluong@google.com

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University of Arkansas, U.S.A.

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HCMUS-VNU, Vietnam

VietAI, Vietnam