Tin Nguyen

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Objectives: Enthusiastic student seeking to do research in Explainable, Editable AI.

Education

2022 - now	**PhD, Auburn University, Auburn, AL, USA** *Major: Computer Science* *Advisor: Prof.Anh Totti Nguyen*
2020 - 2022	**M.Sc., Sejong University, Seoul, Korea** *Major: Computer Science* *Advisor: Prof. Kim Yong Guk*
2015 - 2019	**B.A., Ho Chi Minh University of Science, Ho Chi Minh, Vietnam** *Major: Computer Science and Robotics* *Advisor: Prof. Ngoc Quoc Ly*

Publications (Selected) (* denotes equal contribution)

NAACL 2024	**Part-based image classifiers with an explainable, editable language bottleneck** ***Minh Thang Pham*, Peijie Chen*, Thanh-Tin Nguyen****, *Seunghyun Yoon, Trung Bui, Anh Nguyen* Paper Code
IEEE Acess 2024	**Meme Analysis using LLM-based Contextual Information and U-net Encapsulated Transformer** ***Thanh Tin Nguyen***, *Marvin John, Hulin Jin, Yong-Guk Kim* Paper Code
Knowledge-based Systems (KBS) 2023	**Coarse-To-Fine Fusion for Language Grounding in 3D Navigation** ***Thanh-Tin Nguyen***, *Anh H. Vo, Soo-Mi Choi, Kim Yong Guk* Paper Code
Expert Systems with Applications (ESWA) 2021	**Fruit-CoV: An Efficient Vision-based Framework for Speedy Detection and Diagnosis of SARS-CoV-2 Infections Through Recorded Cough Sounds** *Long H. Nguyen, Nhat Truong Pham, Van Huong Do, Liu Tai Nguyen,* ***Thanh-Tin Nguyen***, *Van Dung Do, Hai Nguyen, Ngoc Duy Nguyen* Paper Code

Technial Strengths

AI	Prompting LLMs, RAG, Knowledge Graph, Diffusion Models, Object Detection.
AI Framework	Pytorch, Tensorflow.
Programming Language	C/C++, Python.

Work Experience

2019-2020	**AI Engineer @ AIOZ Company, Ho Chi Minh City, Vietnam** Segmentation, Face Recognition, License Plate Recognition.
2018-2019	**AI Engineer Intern @ Gumi Company, Ho Chi Minh City, Vietnam** Line Segmentation for handwritten text. Optical Character Recognition (OCR) for Japanese bills and documents.
2017-2018	**Game Programmer Intern @ Gameloft, Ho Chi Minh City, Vietnam** Bulding an arcade game using Cocos-2dx.

Honors and Awards

1st Prize in AICovidVN challenge 2021

Introduced Fruit-CoV, a framework that is capable of detecting SARS-CoV-2 through cough sounds. Received 100mil VND ($4300).

Services and Activities

Teacher for K-6 AI Club at Auburn University
AI Club for children around the elementary-school age (K-6) to learn math, coding, robotics, and artificial intelligence. This is a completely FREE, voluntary, educational event. Supported by Auburn University and an NSF CAREER award. Find out more at: our website.

Reviewer
I have been serving as a reviewer for journals and conferences such as Knowledge-based Systems, ACL, NAACL, and EMNLP.

References

Dr. Anh Totti Nguyen, Associate Professor, Auburn University   anhnguyen@auburn.edu

Dr. Yong-Guk Kim, Full Professor, Sejong University   ykim@sejong.ac.kr

Dr. Ngoc Quoc Ly, Associate Professor, University of Science.   lqngoc@fit.hcmus.edu.vn