

Nam D. Tran

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Work Experience

Hanoi University of Science and Technology

Ha Noi, Viet Nam

TEACHING ASSISTANT - THEORY OF CRYPTOGRAPHY

Feb. 2020 - Jul. 2020

- Teaching Assistant in Theory of Cryptography in semester 2019-2, School of Electronics and Telecommunications (SET), HUST
- Research on Privacy-preserving Machine Learning and its application

Aerospace Electronics Laboratory

Ha Noi, Viet Nam

RESEARCH ASSISTANT

May. 2018 - Jul. 2020

- Signal Processing and Machine Learning in healthcare. Research on Generative Adversarial Network for Bio-Signal Augmentation (joint-research with The University of Electro-Communications (UEC), Japan)
- Research on Reinforcement Learning algorithms approach for UAV indoor obstacle avoidance
- Deploying various Machine Learning algorithms in FPGA hardware
- Developing smart Inventory Management android Software based on RFID technology (joint-develop with AJIS Company)

Data Analytics Center, Viettel Group

Ha Noi, Viet Nam

MACHINE LEARNING INTERN

Dec. 2018 - July. 2019

- Building a Virtual Assistant system based on Natural Language Processing platform
- Building and maintaining database system (MariaDB and Redis) for Virtual Assistant system

Education

Hanoi University of Science and Technology

Ha Noi, Viet Nam

SENIOR-STUDENT IN ELECTRICAL AND ELECTRONICS ENGINEERING

Sep. 2015 - Present

Thai Nguyen Specialized and Gifted High School

Thai Nguyen, Viet Nam

HIGH SCHOOL GRADUATED IN MATHEMATICS

Sep. 2012 - May. 2015

Publications

CONFERENCE PAPERS

A Novelty Approach to Emulate Field Data Captured by Unmanned Aerial Vehicles for Training Deep

May. 2020 **Learning Algorithms Used for Search-and-Rescue Activities at Sea (Accepted as FULL PAPER)**, 2020 The International Conference on Communications and Electronics (IEEE-ICCE)

An Approach for UAV Indoor Obstacle Avoidance Based on AI Technique with Ensemble of ResNet8 and

Dec. 2019 **Res-DQN**, Duc, Nam-Tran, et al. "An approach for UAV indoor obstacle avoidance based on AI technique with ensemble of ResNet8 and Res-DQN." 2019 6th NAFOSTED Conference on Information and Computer Science (NICS). IEEE, 2019.

CONFERENCE POSTERS

Quad – Copter Automatic Control System Based on AI Technique, Thanh-Han Trong, Nam-Tran Duc,

Jun. 2019 Quan-Tran Hai, Dat-Nguyen Van, Tuan-Do Trong, "Quad – Copter Automatic Control System Based on AI Technique" in Proceedings of ECTI-UEC-AI 2019: The 1st ECTI UEC Workshop on AI and Applications, Bangkok, Thailand.

Presentation

2019 6th NAFOSTED Conference on Information and Computer Science (NICS)

Ha Noi, Viet Nam

PRESENTER FOR PAPER <AN APPROACH FOR UAV INDOOR OBSTACLE AVOIDANCE BASED ON AI TECHNIQUE WITH ENSEMBLE OF RESNET8 AND RES-DQN>

Dec. 2019

- Introducing the Deep Reinforcement Learning algorithm and application with Quad-copter.
- Introducing Ensemble method of Deep Learning models for obstacle avoidance problem.

Programmes

- 2019 **Data Engineer**, DATA SCIENCE IN BRIEF
2018 **Data Engineer**, FINAL HACKATHON JUNCTION 2018

Ha noi, Viet Nam

Ha Noi, Viet Nam

Skills

LANGUAGES SKILLS

- English: TOEIC - 690/990

PROFESSIONAL SKILLS

- Software Engineer: Java (Android Application), C/C++ (IoT Application)
- Machine Learning Engineer: Python, Matlab (Machine Learning and Deep Learning Application)
- Data Engineer: R, SQL (Data Mining Application)

INTERPERSONAL SKILLS

- Collaborating and working well together with others
- Clear communication skills
- Mentoring and coaching team members
- Public speaking and presentation skills

Projects

PRACTICAL PROJECTS

- Smart Virtual Assistant for Sales Channels - Nature Language Processing application, Viettel DAC
- Smart RFID App - Android application, (ASE Laboratory and joint-develop with AJIS Japan Company)

ACADEMIC PROJECTS

- Bio-Signal Augmentation (Research) - ASE Laboratory and joint-research with UEC JAPAN
- Quad-copter Avoids Obstacles in Indoor Environments (Research) - ASE Laboratory