

PERSONAL INFORMATION

Tuan-Anh Bui

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OBJECTIVE

Seeking a PhD position in area of Computer Vision, Machine Learning

RESEARCH

Generative Adversarial Network, Detection and Tracking Moving Object, Image Retrieval

BACKGROUND

Digital Signal Processing, Audio Processing (Viettel)

EDUCATION

09/2007–06/2012

Five-Year Bachelor's Degree of Engineering Electronics and Telecommunications

Hanoi University of Science and Technology, Hanoi, Vietnam (HUST)

School of Electronics and Telecommunications (SET), Honour program

Centre for Training of Excellent Students (CTES)

Thesis title: "Research on optimal trade-off between power saving and QoS"

Thesis grade: 4/4 (10/10) (Best Thesis Award)

GPA: 3.24/4 (8.44/10) (top 5% of SET Students, Merit for Excellent Graduate Student)

08/2004–06/2007

High School Diploma

Le Hong Phong Gifted High School, Namdinh, Vietnam

Second prize in National Physics Olympiad for High School Students

WORKING

EXPERIENCE

03/2017 – Present

Research Assistant

Temasek Lab, Singapore University of Technology and Design, Singapore

Projects:

- Urban-area Scene Based Localization (USBL)
- Sky Surveillance - Flying Object Detection (SSFOD)

Research papers:

- Ngoc-Trung Tran, **Tuan-Anh Bui**, Ngai-Man Cheung, "Generative Adversarial Auto-Encoder Network", Under review CVPR18
- Ngoc-Trung Tran, Dang-Khoa Le Tan, Anh-Dzung Doan, Thanh-Toan Do, **Tuan-Anh Bui**, Ngai-Man Cheung, "Computation and Memory Efficient City-Scale Image-Based Localization"
- Ngoc-Trung Tran, Dang-Khoa Le Tan, Anh-Dzung Doan, Thanh-Toan Do, **Tuan-Anh Bui**, Ngai-Man Cheung, "Efficient and Effective Cascade Correspondence Search for Large-scale Image-based Localization"

07/2012 – 03/2017

Digital Signal Processing Engineer

Viettel R&D Institute, Viettel Group, Hanoi, Vietnam

Projects:

- Developing and Manufacturing Viettel SDR Handheld Radio
- Developing and Manufacturing Viettel HF tactical Radio
- Developing and Manufacturing Tank Inter-Communication system

Tasks:

- Developing digital waveforms: High Frequency Hopping waveform, Single Side Band waveform
- Developing baseband processing algorithms: Channel equalization using adaptive filter, Adaptive Noise Cancellation, Digital Pre-Distortion to improve the linearity of radio amplifiers
- Developing auto-control and measuring system for qualification and testing in manufacture

05/2010 – 06/2012

Research Assistant

Green Networking Lab, Hanoi University of Science and Technology, Vietnam

- Study on Openflow, Software Defined Networking, Traffic engineering, Energy consumption model, data centre network
- Research on methods for reducing energy consumption in data centre network

HONOURS &
AWARDS

- 2016, **Best Project** at Viettel, one of three Viettel project attending National Award for outstanding contributions in Science and Technology (the most honourable award in Vietnam for Science and Technology presented every 5 years by The Ministry of Science and Technology)
- 2012-2015, **Best Creative Idea Award** at Viettel
- 2012, **Merit for excellent graduate student**, HUST
- 2012, **Best Thesis Award** in Thesis Defence, SET, HUST
- 2012, **Third prize** in Student Conference on Scientific Research
- 2007, **Second prize** in National Physics Olympiad for High School Students

REFERENCES

Assistant Professor Ngai-Man Cheung, Ph.D. (Supervisor)

Department of Information Systems Technology and Design
Singapore University of Technology and Design
E-mail: ngaiman_cheung@sutd.edu.sg

Doctor Thu-Huong Truong, Ph.D. (Supervisor)

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Hanoi University of Science and Technology
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