

Binh Do

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I loved what I did

Publications

Binh Do, Vladimir Golkov, Goktug Gurel, and Daniel Cremers, "*Precursor microRNA Identification Using Deep Convolutional Neural Networks*", <https://www.biorxiv.org/content/early/2018/09/16/414656>.

Nhan Nguyen, **Binh Do**, Hoang Nguyen, Hai Vu, Hai Tran, Lan Le, "*Score-Based Fusion Schemes for Plant Identification From Multi-organ Images*", VNU Journal of Science: Computer Science and Communication Engineering.

Binh Do, "*Aspect-Based Sentiment Analysis Using Bitmask Bidirectional Long Short Term Memory Networks*", 31st International Conference of the Florida Artificial Intelligence Research Society, AAAI.

Binh Do, Hoang Nguyen, Nhan Nguyen, Hai Vu, Hai Tran, Lan Le, "*Plant Identification Using Score-Based Fusion of Multi-Organ Images*", 9th International Conference on Knowledge and Systems Engineering, IEEE.

Working Experience

TIKI Corporation

Software architecture and deployment : Mar 2019 - May 2019

- Deploy fake branches detection system based on darknet using Tensorflow serving, Kafka, EC2 Kubernetes and Docker. This service is part of a AI platform which helps validate millions of products from sellers. Experiment using Jenkins and Airflow frameworks.

JAVIS CO., LTD.

Machine learning : Oct 2018 - present

- Developed a system to extract booking information from customer requests by combining `transformer` and `C2AE`.
- Cluster customer requests using CNN and DBSCAN. Focus on noises detection.
- Generated meaning sentences from keywords using `seq2seq` model.
- Detect fence from images. Then inpaint them using GAN, autoencoder (U-Net) .
- Time series outlier detection for cutting machines.

WorldQuant LLC

Finance : Jul 2017 - present

- Developed statistical arbitrage & trading models based on financial datasets using technical indicators, fundamental analysis, stochastic processes, and statistical learning.

Technical University of Munich, Germany

Bioinformatics : Apr 2018 - Oct 2018

- Improved prediction accuracy of protein secondary structure by **multi-task learning** (secondary structure, b-values, solvent-accessibility) [code](#).
- Achieved **state-of-the-art** results in precursor miRNA identification. Experiment on miRNA target prediction.

VC Corporation

Nature language processing : Aug 2016 - Sep 2017

- Obtained **significant improvements** in sentence & aspect based sentiment analysis using Deep Learning.
- Experiment using LSTM, bi-LSTM, GRU, GloVe, Word2vec Sentiment2vec embeddings.

International Research Institute MICA

Computer vision : Jun 2016 - Jan 2018

- **Improved** the plant identification accuracy by late fusion of multiple organs based on Deep Learning and SVM.
- Experiment using AlexNet, GoogleNet, ResNet, DenseNet for each single organ using tensorflow.

Education

B.Sc. Computer Science **Technical University of Munich, Germany** Apr 2018 - Oct 2018

B.Sc. Computer Science **Hanoi University of Science and Technology, Vietnam** Aug 2013 - Jan 2019

ERASMUS+ scholarship for studying at the Technical University of Munich, Germany. 2018

Third prize at Vietnam National **Mathematical Olympiad** contest for high school students. 2012