Do Thanh Binh

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Education

Hanoi University of Science and Technology	Aug 2013 - present
B.Sc. Computer Science	

Working Experience

Intern	**TUM Computer Vision Group, Germany**	Mar 2018 - present

- Hands-on **Deep Learning** for computer vision and **biomedicine**.
- Cognitive systems, generative models, reinforcement learning.

Research Consultant	**WorldQuant LLC**	Jul 2017 - present

- Developed statistical arbitrage models. Extracted sources of alpha and new trading signals, combined these signals into robust long-short trading models, with the objective of achieving high sharpe ratios with high returns and low turnovers.
- Experimented in technical indicators, fundamental analysis, stochastic processes, statistical learning.

Machine Learning Developer	**VC Corporation**	Aug 2016 - Sep 2017

- **Deep Learning** for **opinion mining** and **recommendation systems**.
- Built a **vast and clean** Vietnamese sentiment lexicon & dataset.
- Experimented in *LTSM, bidirectional LSTM, GRU, GloVe, Word2vec & Sentiment2vec embeddings* using **tensorflow**.
- Obtained **signification improvements** in sentence & aspect based sentiment analysis.

Research Assistant	**International Research Institute MICA**	Jun 2016 - Jan 2018

- Worked on **Plant Identification** problem using **Deep Learning**.
- Experimented in *AlexNet, GoogleNet, ResNet, DenseNet, MobileNets, curriculum learning* for each single organ.
- **Improved** the identification accuracy by late fusion of multiple organs.

Other Activities

Owning a phone accessories shop. Managing, optimizing the marketing and sales.	Oct 2016 - present
Software Engineering intern at Eastgate Software Co., Ltd.	Aug 2016 - Jan 2017
Network Security Engineering intern at Bkav Corp.	Nov 2014 - Feb 2015

Publications

Binh Do, "Aspect-based Sentiment Analysis Using Bitmask Bidirectional Long Short Term Memory Networks", The 31st International Conference of the Florida Artificial Intelligence Research Society (FLAIRS-31), AAAI, 2018, **accepted**.

Binh Do, Hoang Nguyen, Nhan Nguyen, Hai Vu, Hai Tran, Lan Le, "Plant Identification Using Score-based Fusion of Multi-organ Images", In Proceedings of the 9th International Conference on Knowledge and Systems Engineering (KSE-2017), IEEE, 2017, pages 191 - 196.

Honor and Awards

ERASMUS scholarship for studying at the Technical University of Munich, Germany.	2018
Achieved **Gold Level 1** status (top 1%) in WorldQuant Challange - 2017 Spring Alphathon.	2017
HUST encouraging study scholarships.	2014, 2015, 2016
Odon Vallet scholarships for **excellent national students**.	2012
Third prize at Vietnam National **Mathematical Olympiad** contest for high school students.	2012
First prize with the highest score in the Ninh Binh province's annual math contest for high school students.	2012

References

Assoc. Prof. Thi-Lan Le, Head of Computer Vision department, MICA, HUST, *Thi-Lan.Le@mica.edu.vn*.

Dr. Hai Vu, Researcher, Computer Vision department, MICA, HUST, *hai.vu@mica.hust.edu.vn*.