TRUNG THANH TRAN

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im TrungThanhTran

EDUCATION

Politecnico di Torino | Torino, Italia | Oct 2013 – Oct 2014

The 2nd Level Specializing Master on Navigation and Related Applications

Hanoi University of Science and Technology (HUST) | Hanoi, VN | Aug 2008 – May 2013

Engineer of Science in Engineering on Information Technology (Ranked 1/120 - Awarded to the top 10% at HUST)

RESEARCH EXPERIENCE

- o R&D Laboratory | Pixta Vietnam | 2020
 - Oct 19 Now: R&D projects Sr. Al Researcher
 - Develop a novel algorithm for automatic annotation based on Transformer with 5% better than SOTA model using Pixta's data.
 - R&D for Chatbot which supports R&D Engineers in researching/coding using Rasa framework
 - Develop a novel algorithm for diversity problem in labeling photos using Multi-modeling, ensemble, transformer technique.
 - Learning2Rank system for ranking outputs of Pixta Image Search Engine using LightGBM,
 Lambda Ranking.
- o Heligate JSC | 2020
 - April 20 Now: Consultant Al specialist
 - Support the company in building the first AI team
 - Propose solutions for OCR Document classification for Japan government
 - Build open-domain conversation system using Rasa framework for company business
- Panasonic R&D Center | Hanoi, VN | 2019
 - Feb 19 Sep 19: Face Recognition Technical leader
 - Arc-Face model with f1-score 95%, and anti-spoofing using 3D images.
 - Jan 16 Apr 19: Speech/Speaker recognition Technical leader
 - End2End speech recognition powered by DeepSpeech2; Speaker Identification X-vector, LDA & non-voice detection algorithm – robust to noise environment; A Novel DNN model for a trigger robust to noise and light model for smart speakers.
 - Jan 15 Apr 17: R&D projects Engineer
 - Develop a smart application for factory automation which applied for Panasonic Factory in EU
 - R&D for next generation of automatic: NLP and Speech control for infotainment systems.
- Pi School School of Al | Rome, Italy | 2018
 - Oct 2018 Dec 2018: Make the first voice Chabot in energy industrial domain in Italy Scholar
- Istituto Superiore Mario Boella | Tornio, Italia | 2014
- International Centre for R&D on Satellite Navigation Technology in South East Asia | Hanoi, VN | 2010-2013

WORKING EXPERIENCE

- o Panasonic R&D Center | Hanoi, VN | Apr 2017 Now
 - Mar 18 Now Project Smart Speaker for Vietnamese and HR Chabot Project Leader
 - Speaker identification, trigger word, natural language processing from scratch
 - Apr 18 Jun 19 Project Smart Health Care for Japanese **Project Leader**
 - Bank-end system: cloud computing, database storage and web service
 - Apr 17 Apr 18 Project Humanoid TV for Vietnamese market Project Leader
 - Design architecture system, natural language processing

TEACHING & MENTORING EXPERIENCE

o International Francophone Institute | Hanoi, VN | 2019

- Guest Lecturer: Introduction to Artificial Intelligence
- Incubation projects of Hackathon Vietnam AI Grand Challenge 2019 | Hanoi, Vietnam | Jul 2019 Now
 - Mentor of two projects: Smart Education System | Smart Healthcare System for Young Parents
- Panasonic R&D Center | Hanoi, Vietnam | 2017-2018
 - Mentoring Japanese master students from Kyoto Institute Technology and Ritsumeikan University, Japan
- School of Information and Communication Technology, HUST | Hanoi, Vietnam | 2010
 - Teaching assistant at Computer Center about Introduction to Informatics

PUBLICATION & CONFERENCE PRESENTATIONS

- Hieu Trong Phung, Anh Tuan Vu, Tung Dinh Nguyen, Lam Thanh Do, Giang Nam Ngo, Trung Thanh Tran, Ngoc C.
 Le, "MAGNeto: An Efficient Deep Learning Method for the Extractive Tags Summarization Problem"
- o Truong, T.A, **Tran, T.T,** Vu, D.L, "An enhanced X-Vector Model for Noise-Robust, Text-Independent Speaker Identification". Panasonic Technology Symposium 2018. Paper here.
- o Truong, M.D, **Tran, T.T,** Nguyen, D.T, La, T.V, Ta, H.T, "Receiving and decoding of navigation signal of first satellites of Galileo satellite navigation system in Hanoi", Journal of Vietnamese science and technology
- Truong, M.D, Tran, T.T, Nguyen, D.T, Ta, H.T, "<u>Recent results in receiving and decoding signals from the Beidou</u> system". International Conference on Localization and GNSS, Torino, Italy, 2013. ISSN -2325 0747
- Tran, T.T, Romero, R, Dovis, F, "Monitoring scintillations effects over Vietnam by means of a GNSS software receiver", Workshop Communications and Navigations for the Development of Vietnam's Marine Economy 2014 (REV/ComNavi-14), Hanoi, Vietnam.

ACHIEVEMENT AND AWARDS

- o 'VEF 2.0 Program recommended candidate', who passed 2 interview/review rounds with leading Vietnamese academics, most of whom are PhD from top U.S. graduate schools and U.S. professors. Confirmation Letter.
- o Scholar at Pi School School of Artificial Intelligence Scholarship | Rome, Italy | Oct 2018
- o Co-runner up at Notartel Al_Hackathon | Rome, Italy | Oct 2018
- The United Nations / Italy Long term Fellowship Award at Politecnico di Torino | Turin, Italy | 2013 2014.
- Summer Scholarship on GNSS, Institute of Positioning, Navigation and Timing of Japan | Tokyo, Japan | 2014
- o Runner up at Research Contest in Information and Communication Technology, HUST | Hanoi, VN | 2013
- The 1st group in Asia announced First Galileo Only Positioning on Inside GNSS and GPS World | Apr 2013
- o Successful development of Beidou receiver, one of the first in the world for the Beidou Navigation Satellite System

SKILLS

- o Programming: C/C++, Java, Nodejs, HTML, Python, Tensorflow, Pytorch, SK-learn, Pandas
- o AI: Linear Algebra, Statistic, Natural Language Processing, Deep Learning, Voice recognition, Computer Vision, GANs
- Cloud computing: AWS EC2, AWS RDS, AWS Polly, Google Speech Cloud Service, Dialogflow.ai, Microsoft Azure
- o Graphic Design: brochure, newsletter, event backdrop, advertising.
- GitHub: <u>TranTony</u>
- My medium: https://medium.com/@silkworm

REFERENCES

- Dr. Sébastien Bratières Director of AI, School of AI, Translated, Pi Campus, Rome, Italy.
 Member of Machine Learning group at Cambridge University Engineering Department
 Email: sebastien@picampus-school.com
- **Dr. Usman Qayyum** Founder DeepNeuralNet Solutions / Senior Researcher at Center of Excellence, Pakistan Email: mrusmanqayyum@gmail.com
- Dr. Tung Hai Ta Dean of School of Information & Communication Technology, HUST Email: tungth@soict.hust.edu.vn