NONTAWAT CHAROENPHAKDEE

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Current

The University of Tokyo **Tokyo, Japan**
Ph.D. student in the department of computer science
Sugiyama-Sato-Honda Laboratory (Machine learning)
Laboratory website: http://www.ms.k.u-tokyo.ac.jp/
Sep. 2018-

Education

The University of Tokyo **Tokyo, Japan**
Master of Information Science and Technology
Sugiyama-Sato-Honda Laboratory (Machine learning)
Sep. 2016 – Sep. 2018 GPAX: 4.00/4.00

Chulalongkorn University **Bangkok, Thailand**
Bachelor of Computer Engineering
2011 – 2015 GPAX: 3.80/4.00

Research Interests: Machine learning

Loss function, Learning with reject option, Weakly-supervised learning, Domain adaptation

Computer Skills

Programming Language: Python, MATLAB, Java, C++
Tool: Git, Amazon AWS, PostgreSQL, MongoDB

Job Experiences

1. **Research assistant** **Jan 2019 – Current**
   RIKEN Center for Advanced Intelligence Project **Tokyo, Japan**
   Researching on weakly-supervised learning.
2. **Part-time software developer** **Jun 2016 – Dec 2018**
   HDE, Inc. **Tokyo, Japan**
   Developed an automated candidate screening system using machine learning.
   Optimized the memory/time complexity for searching in mail archiving system.
3. **Software developer** **Feb 2015- Feb 2016**
   CODIUM Company Limited **Bangkok, Thailand**
   Developed CRM web application using Django web framework.
   Developed Cloud monitoring system using Tornado, RethinkDB and Django.

Internship Experiences

1. **Research intern in computer science** **Feb-Mar 2019**
   Faculty of science, Chulalongkorn University **Bangkok, Thailand**
   Researched on weakly-supervised text classification.
2. **Research and development intern** **Jan 2015**
   R&D department, NTT Data Corporation **Tokyo, Japan**
   Developed and tested a telepresence iOS application using telerobotics technology.
3. **iOS developer** **Jul-Sep 2014**
   CODIUM Company Limited **Bangkok, Thailand**

Developed an iOS enterprise application for Japanese car maintenance company on iPad using Objective-C and conducted the requirement analysis and user training.

4. **Research student** **Mar-May 2014**
   Japan Advanced Institute of Science and Technology Ishikawa, Japan
   Researched on fundamental frequency estimation of reverberant speech using multivariate empirical mode decomposition (MEMD) and autocorrelation of the log spectrum under supervision of Professor Masashi Unoki.

Awards and honors

AIP Challenge Program: A research funding for young researchers provided by Japan Science and Technology Agency (JST): 1 million JPY for a project of learning with a reject option.

ICML 2019 Travel Award: A financial support for attending 36th International Conference on Machine Learning in Long beach, California, United States.

Monbukagakusho (MEXT) scholarship: A scholarship granted by Japanese government for studying master's and doctor's degree in Japan.

Representative student of IST: Only one student selected from all students in the faculty of information science and technology (IST), the University of Tokyo in September 2018. The decision was based on the academic achievement and master's thesis.

First class honors: Bachelor of Engineering, Chulalongkorn University.

Activities

Journal Reviewer: Neural Networks

Languages

Thai: Native **English:** TOEFL (Mar 2016) 105/120 **Japanese:** JLPT N2 (Dec 2016)

Publications

Ni, C., **Charoenphakdee, N.**, Honda, J., Sugiyama, M.
On the Calibration of Multiclass Classification with Rejection
In **NeurIPS2019**, Vancouver, Canada, Dec 8-14, 2019. (To appear)

Charoenphakdee, N., Lee, J., Jin, Y., Wanvarie, D., Sugiyama, M.
Learning Only from Relevant Keywords and Unlabeled Documents
In **EMNLP-IJCNLP2019**, Hong Kong, Nov 3-7, 2019. (To appear)

Charoenphakdee, N., Lee, J., Sugiyama, M.
On Symmetric Losses for Learning from Corrupted Labels
In **ICML2019**, Long Beach, California, USA, Jun 9-15, 2019.

Wu, Y., **Charoenphakdee, N.**, Bao, H., Tangkaratt, V., Sugiyama, M.
Imitation Learning from Imperfect Demonstration
In **ICML2019**, Long Beach, California, USA, Jun 9-15, 2019.

Charoenphakdee, N., Sugiyama, M.
Positive-Unlabeled Classification under Class Prior Shift and Asymmetric Error
In **SDM2019**, Calgary, Alberta, Canada, May 2-4, 2019.

Kuroki, S., **Charoenphakdee, N.**, Bao, H., Honda, J., Sato, I. & Sugiyama, M.
Unsupervised Domain Adaptation Based on Source-guided Discrepancy
In **AAAI2019**, Honolulu, Hawaii, USA, Jan 27-Feb 1, 2019.

Preprints

Lee, J., **Charoenphakdee, N.**, Kuroki, S., Sugiyama, M.
Domain Discrepancy Measure Using Complex Models in Unsupervised Domain Adaptation

Tsuchiya, T., **Charoenphakdee, N.**, Sato, I., Sugiyama, M.
Semi-Supervised Ordinal Regression Based on Empirical Risk Minimization

Cui, Z., **Charoenphakdee, N.**, Sato, I., and Sugiyama, M.
Classification from Triplet Comparison Data