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/

Education

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

Chulalongkorn University **Bangkok, Thailand**
Bachelor of Computer Engineering
Graduation year: 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

Experiences

1. **Part-time Researcher** **Jan 2019 – Current**
   RIKEN Center for Advanced Intelligence Project
   Researching on weakly-supervised learning.
2. **Part-time Programmer** **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.
4. **[Intern] Research and development intern** **Jan 2015**
   R&D department, NTT Data Corporation **Tokyo, Japan**
   Developed and tested a telepresence iOS application using telerobotics technology.
5. **[Intern] 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.
6. **[Intern] 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

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: TOEIC (Mar 2015) 930/990, TOEFL (Mar 2016) 105/120

Japanese: JLPT N2 (Dec 2016)

Publications

Charoenphakdee, N., Sugiyama, M.
Positive-Unlabeled Classification under Class Prior Shift and Asymmetric Error
(To appear in SDM2019) https://arxiv.org/abs/1809.07011

Kuroki, S., **Charoenphakdee, N.**, Bao, H., Honda, J., Sato, I. & Sugiyama, M.
Unsupervised Domain Adaptation Based on Source-guided Discrepancy
(To appear in AAAI2019) https://arxiv.org/abs/1809.03839

Preprints

Charoenphakdee, N., Lee, J., Sugiyama, M.
On Symmetric Losses for Learning from Corrupted Labels
(Jan 2019) https://arxiv.org/pdf/1901.09314

Wu, Y., **Charoenphakdee, N.**, Bao, H., Tangkaratt, V., Sugiyama, M.
Imitation Learning from Imperfect Demonstration
(Jan 2019) https://arxiv.org/abs/1901.09387

Lee, J., **Charoenphakdee, N.**, Kuroki, S., Sugiyama, M.
Domain Discrepancy Measure Using Complex Models in Unsupervised Domain Adaptation
(Jan 2019) https://arxiv.org/pdf/1901.10654

Ni, C., **Charoenphakdee, N.**, Honda, J., Sugiyama, M.
On Possibility and Impossibility of Multiclass Classification with Rejection
(Jan 2019) https://arxiv.org/pdf/1901.10655

Tsuchiya, T., **Charoenphakdee, N.**, Sato, I., Sugiyama, M.
Semi-Supervised Ordinal Regression Based on Empirical Risk Minimization
(Jan 2019) https://arxiv.org/abs/1901.11351