

Han Bao

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Profile

Han Bao is a graduate student at the University of Tokyo, pursuing Ph.D. course in computer science. My research interests are semi-supervised learning, class-imbalanced classification, domain adaptation, statistical learning theory, and loss functions.

Education

- 2019-** **The University of Tokyo**, Ph.D. in Computer Science
Supervisor: Masashi Sugiyama
Research Field: Machine Learning
- 2017-2019** **The University of Tokyo**, M.Sc. in Computer Science
Supervisor: Masashi Sugiyama
Research Field: Machine Learning
- 2013-2017** **The University of Tokyo**, B.Sc. in Information Science
Supervisor: Masashi Sugiyama
Research Field: Machine Learning

Publication

5. Wu, Y.-H., Charoenphakdee, N., **Bao, H.**, Tangkaratt, V., and Sugiyama, M. Imitation Learning from Imperfect Demonstration. In *Proceedings of International Conference on Machine Learning (ICML2019)* (to appear), 2019.
4. Kuroki, S., Charoenphakdee, N., **Bao, H.**, Honda, J., Sato, I., and Sugiyama, M. Unsupervised Domain Adaptation Based on Source-guided Discrepancy. In *Proceedings of AAAI Conference on Artificial Intelligence (AAAI2019)*, 2019.
3. **Bao, H.**, Niu, G., and Sugiyama, M. Classification from Pairwise Similarity and Unlabeled Data. In *Proceedings of International Conference on Machine Learning (ICML2018)*, PMLR 80:461–470, 2018.
2. **Bao, H.**, Sakai, T., Sato, I., and Sugiyama, M. Convex Formulation of Multiple Instance Learning from Positive and Unlabeled Bags. *Neural Networks* 105:132–141, 2018.
1. **Bao, H.**, Usui, T., and Matsuura, K. Improving Optimization Level Estimation of Malware by Feature Selection (in Japanese). In *Proceedings of the 32nd Symposium on Cryptography and Information Security*, 2015.

Employment

- Apr 2017 - Present** RIKEN AIP
Research Assistant
Research on learning paradigm under limited information. Belong to Imperfect Learning Team led by Masashi Sugiyama.

Apr 2017 - Preferred Networks
Dec 2018 *Engineer / Researcher*

Make Chainer (deep learning framework) faster and more scalable on the distributed environment, especially working on model-parallel deep learning.

Skills: C++, MPI, Python, Chainer

Project Page: <https://github.com/chainer/chainermn>

Aug 2016 - Preferred Networks
Sep 2016 *Internship*

Research on automatic generation of motions for 3D-avatars.

Skills: Python, Chainer, OpenGL, GLSL

Awards & Funding

2019-2022 JSPS Research Fellowship DC1
Japanese domestic research fellowship provided for promising Ph.D. students.
100K USD for three years.

Nov 2018 Best poster award at Japan-Israel Machine Learning Meeting 2018

2018-2020 ACT-I, JST
A research funding for promising young researchers sponsored by JST.
30K USD for a year and a half.

2017-2018 AIP Challenge Program: 1st place among 40 researchers
A research funding for promising young researchers sponsored by JST.
10K USD for half a year.

Professional Activities

2019 Reviewer of AAAI, AISTATS, ICML