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Kazuki Osawa

CONTACT INFORMATION

2-12-1 i7-2 103 Ookayama, Meguro-ku, Tokyo 152-8550, JAPAN

Email: osawa1021@gmail.com

Homepage: <https://kazukiosawa.github.io>

EDUCATION

March 2021 Tokyo Institute of Technology (Japan), Ph.D. (expected) in Computer Science

March 2018 Tokyo Institute of Technology (Japan), M.S. in Computer Science

March 2016 Tokyo Institute of Technology (Japan), B.S. in Computer Science

EXPERIENCE

Nov. 2019 –

Student trainee at the Approximate Bayesian Inference Team, RIKEN AIP, Japan

Apr. 2019 –

Research Fellow of Japan Society for the Promotion of Science (JSPS) DC2

Nov. – Dec. 2019

Research Intern at the DENSO IT Laboratory, Japan

Oct. 2018 – Mar. 2019

Research Assistant at the I²R, A*STAR, Singapore

PUBLICATIONS (REFEREED)

1. **Kazuki Osawa**, Siddharth Swaroop, Anirudh Jain, Runa Eschenhagen, Richard E. Turner, Rio Yokota, and Mohammad Emtiyaz Khan, “Practical Deep Learning with Bayesian Principles”, *Conference on Neural Information Processing Systems (NeurIPS)*, 2019.
2. **Kazuki Osawa**, Yohei Tsuji, Yuichiro Ueno, Akira Naruse, Rio Yokota, and Satoshi Matsuoka. “Large-Scale Distributed Second-Order Optimization Using Kronecker-Factored Approximate Curvature for Deep Convolutional Neural Networks”, *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019.
3. Yohei Tsuji, **Kazuki Osawa**, Yuichiro Ueno, Akira Naruse, Rio Yokota, and Satoshi Matsuoka. “Performance Optimizations and Analysis of Distributed Deep Learning with Approximated Second-Order Optimization Method”, *The 48th International Conference on Parallel Processing (ICPP): Workshops*, 2019.
4. **Kazuki Osawa** and Rio Yokota. “Evaluating the Compression Efficiency of the Filters in Convolutional Neural Networks”, *Artificial Neural Networks and Machine Learning – ICANN 2017*, pp 459-466, Springer 2017.
5. **Kazuki Osawa**, Akira Sekiya, Hiroki Naganuma, Rio Yokota. “Accelerating Matrix Multiplication in Deep Learning by Using Low-Rank Approximation”, *2017 International Conference on High*

Performance Computing & Simulation (HPCS), pp 186-192, IEEE 2017.

FELLOWSHIPS, SCHOLARSHIPS & GRANT-IN-AIDS

JSPS KAKENHI Grant Number JP19J13477	(2019-2021, 1,700,000 JPY)
Research Fellowship for Young Scientists (DC2), JSPS	(2019-2021, 4,800,000 JPY)
A*STAR Research Attachment Programme, Singapore	(2018-2019, 17,500 SGD)
The Nakajima Foundation, Ph.D. Scholarship (declined)	(2018-2023, tuition and living expenses)
Japan Student Services Organization, Master's Scholarship	(2016-2018, 2,112,000 JPY)
International Information Science Foundation, Overseas Dispatch of Researchers	(2017, 180,000 JPY)