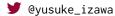
Yusuke Izawa, Ph.D. student

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https://3tty0n.github.io



Education

2020-now

Ph.D., Tokyo Institute of Technology.

2018-2020

M.Sc. Mathematical and Computing, Tokyo Institute of Technology.

Thesis title: Stack Hybridization: A Mechanism for Bridging Two Compilation Strategies in a Meta Compiler Framework

2014-2018

B.Sc. Mathematical and Computing, Tokyo Institute of Technology.Thesis title: BacCaml: A Meta-JIT Compiler Based on Both Tracing and Method JIT Compilations

Miscellaneous Experience

Grants

2021

Research Fellowship for Young Scientists (JSPS DC2). Fellowship from the Japan Society for the Promotion of Science (JSPS), covering living expenses. Research expenses covered by KAKENHI.

JST Strategic Basic Research Programs ACT-X. Research expensec covered by Japan Science and Technology Agency (JST).

Travel Grants by Information Science Incentive Fund. By dept. of mathematical and computing science, Tokyo Tech.

Awards

2nd Place, Graduate Category, ACM Student Research Competition, Association for Computing Machinery. [*]

Scholarships

2020

Tokyo Tech Tsubame Scholarship for Doctoral Students. Covering living expenses.

2014

Scholarship by the Showa Scholarship Foundation. Covering living expensed by Showa Scholarship Foundation.

Publications

Peer-reviewed

- Izawa, Y., & Masuhara, H. (2020a). Amalgamating different jit compilations in a meta-tracing jit compiler framework. In *Proceedings of the 16th acm sigplan international symposium on dynamic languages* (pp. 1–15). Odoi:10.1145/3426422.3426977
- Izawa, Y. (2019). Baccaml: The meta-hybrid just-in-time compiler. In *Proceedings of the conference companion of the 3rd international conference on art, science, and engineering of programming.*6 doi:10.1145/3328433.3328466
- Izawa, Y., Masuhara, H., & Aotani, T. (2019). Extending a meta-tracing compiler to mix method and tracing compilation. In *Proceedings of the conference companion of the 3rd international conference on art, science, and engineering of programming.* 60 doi:10.1145/3328433.3328439

Non Peer-reviewed

Izawa, Y., Masuhara, H., Aotani, T., & Cong, Y. (2019). A stack hybridization for meta-hybrid just-in-time compilation. nonrefereed, Shibaura Institute of Technology, Tokyo, Japan.

Talks

Invited

Izawa, Y., & Masuhara, H. (2021, March 9). Amalgamating different JIT compilations in a meta-tracing JIT compiler framework. Reproduction of the DLS'20 talk at JSSST Programming and Programming Languages Workshop. Retrieved from 6 https://jssst-ppl.org/workshop/2021/

Oral and Poster Sessions

- Izawa, Y., Masuhara, H., & Cong, Y. (2021). An interpreter design for supporting different JIT compilations in rpython framework. The 23nd JSSST Workshop on Programming and Programming Languages. Poster Presentation. Retrieved from 6 https://easychair.org/smart-program/PPL2021/
- Takahashi, S., Izawa, Y., Masuhara, H., & Cong, Y. (2021). 汎言語的ライブプログラミング環境のためのデータ構造解析手法. The 23nd JSSST Workshop on Programming and Programming Languages. Poster Presentation. Retrieved from ❷https://easychair.org/smart-program/PPL2021/
- Izawa, Y., & Masuhara, H. (2020b). Making different jit compilations dancing to the same tune, acting in the meta-level. The 22nd JSSST Workshop on Programming and Programming Languages. Poster Presentation. Retrieved from 6 https://easychair.org/smart-program/PPL2020/
- Masuhara, H., Takahashi, S., Izawa, Y., & Cong, Y. (2020). Toward a multi-language and multi-environment framework for live programming. Talk at the 2020 Workshop on Live Programming (colocated with SPLASH 2020). **Peer-reviewed**. Retrieved from https://2020.splashcon.org/home/live-2020
- Takahashi, S., Izawa, Y., Masuhara, H., & Cong, Y. (2020). ライブプログラミング環境は多言語化/多開発環境化の夢を見るか. The 37th JSSST Anual Conference. Japan Society for Software Science and Technology. Poster Presentation. Retrieved from ❷https://jssst2020.wordpress.com/program/
- Izawa, Y., Masuhara, H., & Aotani, T. (2018). メタ混合 JIT コンパイラの提案. The 20nd JSSST Workshop on Programming and Programming Languages. Poster Presentation. Retrieved from
 ♣ https://jssst-ppl.org/workshop/2018/program.html

Employment History

2020.11-2023.3 Tokyo Institute of Technology, Dept. of Math. and Comp., Research Assistant.

2018.6 – 2019.2 Recruit Marketing Partners, Inc., Software Engineer, Self-employment.

2018.8 Cookpad, Inc., Software Engineer, Internship. (Won 2nd Place)

2017.4 – 2018.3 FOLIO, Inc., Software Engineer, Internship.

2016.8 – 2017.3 DOWANGO, Inc., Software Engineer, Internship.

2016.1 – 2016.6 Summaly, Inc., Software Engineer, Internship

Skills

Languages English (fluent), Japanese (native)

Coding — OCaml (S), Scala (S), Python (S), C (A), Java (A), Ruby (A), Shell (A), R (B), SQL (C), Let Te X(SS)

Misc. Academic research, teaching, training, consultation, LaTeX typesetting and publishing.