

Yusuke IZAWA

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Current position

PhD Candidate, Department of Mathematical and Computing Science, Tokyo Institute of Technology

Areas of specialisation

Computer Science; Programming Language

Work Experience

Recruit Marketing Partners, Inc., Software Engineer, Self-employment.
Cookpad, Inc., Software Engineer, Internship. (Won **2nd Place**)
FOLIO, Inc., Software Engineer, Internship.
KADOKAWA, Inc., Software Engineer, Internship.
Summaly, Inc., Software Engineer, Internship.

Education

BSc in Mathematical and Computing Science, Tokyo Institute of Technology
MSc in Mathematical and Computing Science, Tokyo Institute of Technology

Grants, honours & awards

2nd Place, ACM Student Research Competition, Graduate Category [★]

Publications & talks

Yusuke Izawa^{2,1} and Hidehiko Masuhara. Toward Hybrid Compilation in a Practical Meta-tracing JIT Compiler. Programming Language Mentoring Workshop, 41st ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI 2020). June 2020. Oral Presentation.

Yusuke Izawa^{2,1} and Hidehiko Masuhara. Making different JIT compilations dancing to the same tune, acting in the meta-level. The 22nd JSSST Workshop on Programming and Programming Languages, March 2020. Poster Presentation.

Yusuke Izawa^{2,3}, Hidehiko Masuhara, Tomoyuki Aotani, and Youyou Cong. A stack hybridization for meta-hybrid just-in-time compilation. In Kei Ito, editor, Proceedings of the 36th JSSST Annual Conference, pages No. 2–L. Japan Society for Software Science and Technology (JSSST), August 2019.

Yusuke Izawa^{2,3}, Hidehiko Masuhara, and Tomoyuki Aotani. 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 (Programming '19). ACM, New York, NY, USA, Article 5, 1–3. DOI: <https://doi.org/10.1145/3328433.3328439>

Yusuke Izawa^{2,3} 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 (Programming '19). ACM, New York, NY, USA, Article 32, 1–3. DOI: <https://doi.org/10.1145/3328433.3328466> (Awarded [★])

Yusuke Izawa^{2,3}, Hidehiko Masuhara, and Tomoyuki Aotani, Proposal of Meta-hybrid JIT Compiler", The 20nd JSSST Workshop on Programming and Programming Languages, March 2018. Poster Presentation.

Yusuke Izawa^{2,3}, Hidehiko Masuhara, and Tomoyuki Aotani, Meta-hybrid JIT Compilation Approach to the Path Divergence Problem, Kumiki 6.0, November 2018. Oral Presentation.

Teaching

Programming II⁴, Tokyo Institute of Technology, Teaching Assistant

Programming II³, Tokyo Institute of Technology, Teaching Assistant

Introduction to Computer Science, Tokyo Institute of Technology, Teaching Assistant

Programming I³, Tokyo Institute of Technology, Teaching Assistant

Information Literacy 1, Tokyo Institute of Technology, Teaching Assistant

Academic Services

Candidate of Programming Language Mentoring Workshop, PLDI 2020, June 2020.

Member of Student Volunterr, Programming 2019, April 2019.