

Hidehito Yabuuchi (藪内秀仁)

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Contact

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Social

- GitHub: <https://github.com/ordovicia>
- Twitter: <https://twitter.com/ordovicia>
- Blog: <https://ordovicia.github.io/>

Education

- Master's course of Information Science and Technology (Information Physics and Computing)
 - 2018.04 - (present)
 - Graduate School of Information Science and Technology, The University of Tokyo, Japan
 - Supervisor: Associate Professor Takahiro Shinagawa
 - Doing research on systems software
- Bachelor of Science (Information Science)
 - 2016.04 - 2018.03
 - School of Science, The University of Tokyo, Japan
 - Supervisor: Associate Professor Shinpei Kato
- Undergraduate course (Arts and Sciences)
 - 2014.04 - 2016.03
 - The University of Tokyo, Japan

Work Experience

- Preferred Networks, Inc., Part-time job
 - 2018.10 - 2019.03
 - Development of a system for Kubernetes
(<https://github.com/pfnet-research/k8s-cluster-simulator>)
- Preferred Networks, Inc., Internship
 - 2018.07 - 2018.09
 - Research and development of job scheduling algorithms for computing clusters
- GROOVE X, Inc., Part-time job
 - 2016.11 - 2017.03

- Robotics software engineer

Other Experience

- Students robot contest
 - Led a robot control team of about 30 members (2016 - 2017)
 - Developed in-house libraries for controlling robots (2015 - 2017)
 - Worked on recognition and orbit prediction of flying objects with depth sensors and OpenCV (2015 - 2017)
 - Worked on controlling the trajectory and arms of robots (2014 - 2016)
 - Taught basic robot control, programming (C/C++), and development tools (e.g., Git) to over 20 freshpeople

Skills

- Programming in Rust (proficient), C/C++ (intermediate), Go (intermediate), etc.
- Linux operation

Languages

- Japanese
 - Native
- English
 - Conversational
 - TOEIC L&R: 890 (L: 410 + R: 480) on 2019/05

Club and Volunteering

- RoboTech, a team for NHK Gakusei Robocon and Asia-Pacific Robot Contest (ABU Robocon) in The University of Tokyo (2014 - 2017)

Awards

- 2nd prize in NHK Gakusei Robocon (2017)
- 2nd runner-up in ABU Robocon (2016)
- ABU Robocon Award in ABU Robocon (2016)
- 1st prize in NHK Gakusei Robocon (2016)

Publications

- Reviewed
 - Hidehito Yabuuchi, Daisuke Taniwaki and Singo Omura. Low-latency Job Scheduling with Preemption for the Development of Deep Learning. 2019

- USENIX Conference on Operational Machine Learning, 2019.
[\(https://www.usenix.org/conference/opml19/presentation/yabuuchi\)](https://www.usenix.org/conference/opml19/presentation/yabuuchi)
 - Hidehito Yabuuchi, Shinichi Awamoto, Hiroyuki Chishiro and Shinpei Kato. Multikernel Design and Implementation for Improving Responsiveness of Aperiodic Tasks. IEEE 12th International Symposium on Embedded Multicore/Many-core Systems-on-Chip, 2018.
[\(https://ieeexplore.ieee.org/document/8540222\)](https://ieeexplore.ieee.org/document/8540222)
- Not reviewed
 - 薮内 秀仁, 品川 高廣. 複数種・不均一資源要求に対応した実行時間推定非依存なクラスタスケジューラ. 第146回 システムソフトウェアとオペレーティング・システム研究会, 2019.
[\(http://www.ipsj.or.jp/sig/os/index.php?2019%C7%AF5%B7%EE%B8%A6%B5%E6%B2%F1\)](http://www.ipsj.or.jp/sig/os/index.php?2019%C7%AF5%B7%EE%B8%A6%B5%E6%B2%F1)
 - Hidehito Yabuuchi, Daisuke Taniwaki and Shingo Omura. Low-latency job scheduling with preemption for the development of deep learning. arXiv preprint 1902.01613, 2019.
[\(https://arxiv.org/abs/1902.01613\)](https://arxiv.org/abs/1902.01613)

Thesis

- Bachelor's Thesis: "Throughput-oriented Multikernel Design and Implementation for Heterogeneous Multi-core Architectures", Supervised by Assoc. Prof. Shinpei Kato
 卒業論文「非対称マルチコアアーキテクチャにおけるスループット指向マルチカーネルの設計と実装」、指導教員: 加藤真平 准教授