

Yuto Watanabe



Born: 16 October 1999
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Personal Profile

Yuto Watanabe received the Bachelor's degree in engineering from Kyoto University, Kyoto, Japan, in 2022. He is currently pursuing the Master's degree with the Graduate School of Informatics, Kyoto University, Kyoto, Japan. His research interests include distributed control and optimization of multi-agent systems. I was awarded the Funai Oversea Scholarship and JSPS Research Fellowship for Young Scientist (Tokubetsu Kenkyuin) DC1.

Education

Apr. 2022 – Mar. 2024	Kyoto University Master's Student Department of Systems Science, Graduate School of Informatics	 Kyoto, Japan
Apr. 2018 – Mar. 2022	Kyoto University B.E. in Mechanical Engineering Thesis: <i>Distributed dynamic matching of two groups of agents with different sensing ranges</i>	 Kyoto, Japan


Experiences

Oct. 2022 – Present	Student Member of Advanced Mathematical Science for Mobility Society. The joint project of Kyoto University and Toyota Motor Corporation.
Sep. 2022	Internship at Mitsubishi Heavy Industries, Ltd. Design and simulation of a controller for submarines.
Apr. 2022 – Jul. 2022	Teaching Assistant at Kyoto University, Kyoto Japan. Teaching assistant of the Practice of Basic Informatics Class.
Mar. 2022 – Nov. 2022	Office Assistant at Kyoto University, Kyoto Japan. Translation of a monograph on multi-agent control into Japanese.

Research Publications

Peer Reviewed International Conference Proceedings

- [1] **Y. Watanabe** and K. Sakurama, "Distributed optimization of clique-wise coupled problems," in *the 62nd IEEE Conference on Decision and Control (CDC)*, Singapore, 2023 (accepted).
- [2] **Y. Watanabe** and K. Sakurama, "Accelerated distributed projected gradient descent for convex optimization with clique-wise coupled constraints," in *the 22nd IFAC World Congress*, Yokohama, Japan, 2023.

- [3] **Y. Watanabe** and K. Sakurama, “Distributed dynamic matching of two groups of agents with different sensing ranges,” in *the 61st IEEE Conference on Decision and Control (CDC)*, Cancun, Mexico, 2022, pp. 5916–5921.  DOI: 10.1109/CDC51059.2022.9993395.

Papers in Preparation & Under Review

- [1] **Y. Watanabe** and K. Sakurama, “Distributed optimization of clique-wise coupled problems via three-operator splitting,” submitted to *IEEE Transactions on Automatic Control*.
- [2] **Y. Watanabe**, K. Sakurama, and H.-S. Ahn, “Gradient-based distributed controller design over directed networks,” submitted to *IEEE Transactions on Control of Network Systems*.

Awards

2023 **Funai Overseas Scholarship.**

This scholarship will cover two years of graduate school tuition plus a stipend of 3,000USD a month for living expenses. (Only for the UK, it will cover three years.)

JSPS Research Fellowship for Young Scientist (Tokubetsu Kenkyuin) DC1.

A governmental three-year fellowship for Ph.D. students at Japanese institutions. The acceptance rate is around 14.3%.

IEEE CSS Student Travel & Workshop Support Programs of CDC 2023.

SCI Outstanding Student Presentation Award, SCI’23, Kyoto, Japan.

The 2023 ISCIE Young Investigators Award, The Institute of Systems, Control and Information Engineers, Japan.

This award is given to around five outstanding young researchers in the Japanese control community.

Skills

Languages	English: IELTS (Academic) overall score: 7.0 (June, 2023 & September, 2023). Japanese: Native.
Coding	MATLAB, Python, and \LaTeX .
Hobbies	Marathon, juggling, training, etc.

References

Prof. Kazunori Sakurama (Kyoto University)	sakurama@i.kyoto-u.ac.jp
Prof. Toshiyuki Ohtsuka (Kyoto University)	ohtsuka@i.kyoto-u.ac.jp
Prof. Kenta Hoshino (Kyoto University)	hoshino@i.kyoto-u.ac.jp