Tatsuya Terao

Doctoral Student

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Research Interests

- Graph algorithms, Matroid algorithms, etc.

Education

Kyoto University *Kyoto, Japan*

Doctor of Science *April 1, 2024 - present*

- Advisor: Prof. Yusuke Kobayashi

Kyoto University *Kyoto, Japan*

Master of Science *April 1, 2022 - March 31, 2024*

- Advisor: Prof. Yusuke Kobayashi

Kyoto University *Kyoto, Japan*

Bachelor of Science *April 1, 2018 - March 31, 2022*

- Faculty of Science, Division of Physics

Professional Experience

2024-2027 **Research Fellowships for Young Scientists (DC1)**, Japan Society for the Promotion of Science

Publications

Refereed Conference Proceedings

1. Tatsuya Terao and Ryuhei Mori: Parameterized Quantum Query Algorithms for Graph Problems, In Proceedings of the 32rd Annual European Symposium on Algorithms (**ESA 2024**), to appear.
2. Yusuke Kobayashi and Tatsuya Terao: Subquadratic Submodular Maximization with a General Matroid Constraint, In Proceedings of the 51st EATCS International Colloquium on Automata, Languages and Programming (**ICALP 2024**), to appear.
3. Tatsuya Terao: Faster matroid partition algorithms, In Proceedings of the 50th EATCS International Colloquium on Automata, Languages and Programming (**ICALP 2023**), 104:1–104:20. `doi:10.4230/LIPIcs.ICALP.2023.104`
4. Yusuke Kobayashi and Tatsuya Terao: One-face shortest disjoint paths with a deviation terminal, In Proceedings of the 33rd International Symposium on Algorithms and Computation (**ISAAC 2022**), 47:1–47:15. `doi:10.4230/LIPIcs.ISAAC.2022.47`

Presentations

Conference Presentations

1. Subquadratic Submodular Maximization with a General Matroid Constraint, ICALP 2024, Tallin, Estonia, July 9, 2024.
2. Faster matroid partition algorithms, ICALP 2023, Paderborn, Germany, July 14, 2023.
3. One-face shortest disjoint paths with a deviation terminal, ISAAC 2022, Seoul, Korea, Dec 20, 2022.