Naoyuki Kamiyama

Curriculum Vitæ

Position

Jul. 2019 – Professor, Kyushu University

Institute of Mathematics for Industry

Oct. 2011 – Jun. 2019 Associate Professor, Kyushu University

Institute of Mathematics for Industry

Apr. 2009 – Sep. 2011 Assistant Professor, Chuo University

Faculty of Science and Engineering

Department of Information and System Engineering

CONCURRENT POSITION

Oct. 2014 - Mar. 2021 PRESTO Researcher, JST, PRESTO

Apr. 2007 - Mar. 2009 Research Fellow of the Japan Society for the Promotion Science

Education

Mar. 2009 Doctor of Engineering, Kyoto University

Graduate School of Engineering

Department of Architecture and Architectural Engineering

Mar. 2006 Master of Engineering, Kyoto University

Graduate School of Engineering

Department of Architecture and Architectural Engineering

Mar. 2004 Bachelor of Engineering, Kyoto University

Faculty of Engineering

Undergraduate School of Architecture

Peer-Reviewed Journal Papers

67. Takehiro Ito, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Yoshio Okamoto Algorithmic Theory of Qubit Routing in the Linear Nearest Neighborhood Architectures ACM Transactions on Quantum Computing, accepted.

66. Naoyuki Kamiyama

The Minimum-Cost Dynamic Flow Problem in a Fixed Graph with a Constant Target Flow Value *Networks*, accepted.

65. Takehiro Ito, Yuni Iwamasa, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Yuta Nozaki, Yoshio Okamoto, Kenta Ozeki

Reforming an Envy-Free Matching

Algorithmica, accepted.

64. Naoyuki Kamiyama

Super-Stable Common Independent Sets of Generalized Matroids

Operations Research Letters, vol.60, pp.107248 (2025).

63. Naoyuki Kamiyama

Modifying an Instance of the Super-Stable Matching Problem

Information Processing Letters, vol.189, pp.106549 (2025).

62. Ayumi Igarashi, Naoyuki Kamiyama, Warut Suksompong, Yuen Sheung Man

Reachability of Fair Allocations via Sequential Exchanges

Algorithmica, vol.86, pp.3653-3683 (2024).

61. Kristóf Bérczi, Erika Bérczi-Kovács, Endre Boros, Fekadu Tolessa Gedefa, Naoyuki Kamiyama, Telikepalli Kavitha, Yusuke Kobayashi, Kazuhisa Makino

Envy-free Relaxations for Goods, Chores, and Mixed Items

Theoretical Computer Science, vol.1002, pp.114596 (2024).

60. Naoyuki Kamiyama

A Note on Robust Subsets of Transversal Matroids

Journal of the Operations Research Society of Japan, vol.67, no.2, pp.37–45 (2024).

59. Takehiro Ito, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Yuta Nozaki, Yoshio Okamoto, Kenta Ozeki

On Reachable Assignments under Dichotomous Preferences

Theoretical Computer Science, vol.979, pp.114196 (2023).

58. Naoyuki Kamiyama

On Optimization Problems in Acyclic Hypergraphs

Information Processing Letters, vol.182, pp.106390 (2023).

57. Masataka Shirahashi and Naoyuki Kamiyama

Kernelization Algorithms for a Generalization of the Component Order Connectivity Problem *Journal of the Operations Research Society of Japan*, vol.66, no.2, pp.112–129 (2023).

56. Naoyuki Kamiyama

Pareto Efficient Matchings with Pairwise Preferences

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55. Takehiro Ito, Yuni Iwamasa, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Shun-ichi Maezawa, Yuta Nozaki, Yoshio Okamoto, Kenta Ozeki

Monotone Edge Flips to an Orientation of Maximum Edge-Connectivity à la Nash-Williams, *ACM Transactions on Algorithms*, vol.19, no.1, pp.6:1–6:22 (2023).

54. Naoyuki Kamiyama

A Matroid Generalization of the Super-Stable Matching Problem

SIAM Journal on Discrete Mathematics, vol.36, no.2, pp.1467-1482 (2022).

53. Takehiro Ito, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Yoshio Okamoto Shortest Reconfiguration of Perfect Matchings via Alternating Cycles *SIAM Journal on Discrete Mathematics*, vol.36, no.2, pp.1102–1123 (2022).

52. Takehiro Ito, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Yoshio Okamoto

A Parameterized View to the Robust Recoverable Base Problem of Matroids under Structural Uncertainty

Operations Research Letters, vol.50, pp.370-375 (2022).

51. Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Yoshio Okamoto Submodular Reassignment Problem for Reallocating Agents to Tasks with Synergy Effects Discrete Optimization, vol.44, pp.100631 (2022).

50. Naoyuki Kamiyama

The Envy-Free Matching Problem with Pairwise Preferences

Information Processing Letters, vol.172, pp.106158 (2021).

49. Naoyuki Kamiyama

Envy-Free Matchings with One-Sided Preferences and Matroid Constraints

Operations Research Letters, vol.49, no.5, pp.790-794 (2021).

48. Naoyuki Kamiyama, Pasin Manurangsi, Warut Suksompong

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47. Takehiro Ito, Naoyuki Kamiyama, Yusuke Kobayashi, Yoshio Okamoto

Algorithms for Gerrymandering Over Graphs

Theoretical Computer Science, vol.868, no.8, pp.30-45 (2021).

46. Naonori Kakimura, Naoyuki Kamiyama, Kenjiro Takazawa

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Discrete Applied Mathematics, vol.283, pp.565–576 (2020).

45. Naoyuki Kamiyama

The Distance-Constrained Matroid Median Problem

Algorithmica, vol.82, no.7, pp.2087–2106 (2020).

44. Naoyuki Kamiyama

Popular Matchings with Two-Sided Preference Lists and Matroid Constraints

Theoretical Computer Science, vol.809, pp.265-276 (2020).

43. Naoyuki Kamiyama

Lexicographically Optimal Earliest Arrival Flows

Networks, vol.75, no.1, pp.18-33 (2020).

42. Naoyuki Kamiyama

Discrete Newton Methods for the Evacuation Problem

Theoretical Computer Science, vol.795, pp.510-519 (2019).

41. Akifumi Kira, Naoyuki Kamiyama, Hirokazu Anai, Hiroaki Iwashita, Kotaro Ohori On Dynamic Patrolling Security Games

Journal of the Operations Research Society of Japan, vol.62, no.4, pp.152-168 (2019).

40. Chien-Chung Huang, Naonori Kakimura, Naoyuki Kamiyama

Exact and Approximation Algorithms for Weighted Matroid Intersection

Mathematical Programming, Series A, vol.177, no.1-2, pp.85–112 (2019).

39. Naoyuki Kamiyama

A Note on Balanced Flows in Equality Networks

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38. Susumu Kawanaka and Naoyuki Kamiyama

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Journal of Combinatorial Optimization, vol.37, no.2, pp.454–464 (2019).

36. Takehiro Ito, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Yoshio Okamoto **Minimum-Cost** *b***-Edge Dominating Sets on Trees**

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35. Naoyuki Kamiyama

Pareto Stable Matchings under One-Sided Matroid Constraints

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34. Yosuke Hanawa, Yuya Higashikawa, Naoyuki Kamiyama, Naoki Katoh, Atsushi Takizawa The Mixed Evacuation Problem

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33. Naoyuki Kamiyama

A Note on Submodular Function Minimization with Covering Type Linear Constraints *Algorithmica*, vol.80, no.10, pp.2957–2971 (2018).

32. Naoyuki Kamiyama

A Characterization of Weighted Popular Matchings under Matroid Constraints

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31. Takehiro Ito, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Yoshio Okamoto Efficient Stabilization of Cooperative Matching Games

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30. Naoyuki Kamiyama

Strategic Issues in College Admissions with Score-Limits

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28. Naoyuki Kamiyama

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27. Naoyuki Kamiyama

The Popular Matching and Condensation Problems under Matroid Constraints

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26. Satoru Iwata, Naoyuki Kamiyama, Naoki Katoh, Shuji Kijima, Yoshio Okamoto Extended Formulations for Sparsity Matroids

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25. Keita Nakamura and Naoyuki Kamiyama

Many-to-Many Stable Matchings with Ties in Trees

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24. Tamás Fleiner and Naoyuki Kamiyama

A Matroid Approach to Stable Matchings with Lower Quotas

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23. Naoyuki Kamiyama and Yasushi Kawase

On Packing Arborescences in Temporal Networks

Information Processing Letters, vol.115, pp.321-325 (2015).

22. Naoyuki Kamiyama

The Nucleolus of Arborescence Games in Directed Acyclic Graphs

Operations Research Letters, vol.43, pp.89-92 (2015).

21. Naoyuki Kamiyama and Naoki Katoh

The Universally Quickest Transshipment Problem in a Certain Class of Dynamic Networks with Uniform Path-Lengths

Discrete Applied Mathematics, vol.178, pp.89–100 (2014).

20. Yuya Higashikawa, Naoyuki Kamiyama, Naoki Katoh, Yuki Kobayashi

An Inductive Construction of Minimally Rigid Body-Hinge Simple Graphs

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19. Naoyuki Kamiyama

A New Approach to the Pareto Stable Matching Problem

Mathematics of Operations Research, vol.39, no.3, pp.851–862 (2014).

18. Naoyuki Kamiyama

Arborescence Problems Theorems and Algorithms

Interdisciplinary Information Sciences, vol.20, no.1, pp.51-70 (2014).

17. Yusuke Matsumoto, Naoyuki Kamiyama, Keiko Imai

On Total Unimodularity of Edge-Edge Adjacency Matrices

Algorithmica, vol.67, no.2, pp.277-292 (2013).

16. Naoyuki Kamiyama

A Note on the Serial Dictatorship with Project Closures

Operations Research Letters, vol.41, pp.559-561 (2013).

15. Naoyuki Kamiyama

Matroid Intersection with Priority Constraints

Journal of the Operations Research Society of Japan, vol.56, no.1, pp.15–25 (2013).

14. András Frank, Satoru Fujishige, Naoyuki Kamiyama, Naoki Katoh

Independent Arborescences in Directed Graphs

Discrete Mathematics, vol.313, no.4, pp.453-459 (2013).

13. Naoyuki Kamiyama

A Note on the Quasi-Additive Bound for Boolean Functions

Journal of Math-for-Industry, vol.4-B, pp.119-122 (2012).

12. Naoyuki Kamiyama

Robustness of Minimum Cost Arborescences

Japan Journal of Industrial and Applied Mathematics, vol.29, no.3, pp.485–497 (2012).

11. Satoru Fujishige and Naoyuki Kamiyama

The Root Location Problem for Arc-Disjoint Arborescences

Discrete Applied Mathematics, vol.160, no.13-14, pp.1964-1970 (2012).

10. Yuichiro Yasui, Katsuki Fujisawa, Kazushige Goto, Naoyuki Kamiyama, Mizuyo Takamatsu NETAL High-performance Implementation of Network Analysis Library Considering Computer Memory Hierarchy

Journal of the Operations Research Society of Japan, vol.54, no.4, pp.259–280 (2011).

9. Yusuke Matsumoto, Naoyuki Kamiyama, Keiko Imai

An Approximation Algorithm Dependent on Edge-Coloring Number for Minimum Maximal Matching Problem

Information Processing Letters, vol.111, no.10, pp.465–468 (2011).

8. Yutaka Iwaikawa, Naoyuki Kamiyama, Tomomi Matsui

Improved Approximation Algorithms for Firefighter Problem on Trees

IEICE Transaction on Information and Systems, vol.E94-D, no.2, pp.196-199 (2011).

7. Naoyuki Kamiyama and Naoki Katoh

Covering Directed Graphs by In-Trees

Journal of Combinatorial Optimization, vol.21, no.1, pp.2–18 (2011).

6. Kristóf Bérczi, Satoru Fujishige, Naoyuki Kamiyama

A Linear-Time Algorithm to Find a Pair of Arc-Disjoint Spanning In-Arborescence and Out-Arborescence in a Directed Acyclic Graph

Information Processing Letters, vol.109, no.23–24, pp.1227–1231 (2009).

5. Naoyuki Kamiyama, Naoki Katoh, Atsushi Takizawa

An Efficient Algorithm for the Evacuation Problem in a Certain Class of Networks with Uniform Path-Lengths

Discrete Applied Mathematics, vol.157, no.17, pp.3665-3677 (2009).

4. Naoyuki Kamiyama, Naoki Katoh, Atsushi Takizawa

Arc-Disjoint In-Trees in Directed Graphs

Combinatorica, vol.29, no.2, pp.197–214 (2009).

3. Naoyuki Kamiyama, Yuuki Kiyonari, Eiji Miyano, Shuichi Miyazaki, Katsuhisa Yamanaka Computational Complexity of University Interview Timetabling *IEICE Transaction on Information and Systems*, vol.E92-D, no.2, pp.130–140 (2009).

- 2. Takenao Taji, Shin-ichi Tanigawa, Naoyuki Kamiyama, Naoki Katoh, Atsushi Takizawa Finding an Optimal Location of Line Facility using Evolutionary Algorithm and Integer Program *Journal of Computational Science and Technology*, vol.2, no.3, pp.362–370 (2008).
- 1. Naoyuki Kamiyama, Naoki Katoh, Atsushi Takizawa

An Efficient Algorithm for Evacuation Problem in Dynamic Network Flows with Uniform Arc Capacity

IEICE Transaction on Information and Systems, vol.E89-D, no.8, pp.2372-2379 (2006).

Peer-Reviewed Conference Papers

(Especially, in SODA, AAMAS, AAAI, LNCS, LIPIcs, CRPIT, and CCIS)

39. Ayumi Igarashi, Naoyuki Kamiyama, Warut Suksompong, Yuen Sheung Man

Reachability of Fair Allocations via Sequential Exchanges

Proceedings of the 38th AAAI Conference on Artificial Intelligence (AAAI), pp.9773–9780 (2024).

38. Takasugu Shigenobu and Naoyuki Kamiyama

On Connectedness of Solutions to Integer Linear Systems

Proceedings of the 16th Annual International Conference on Combinatorial Optimization and Applications (COCOA), LNCS 14461, pp.421–433 (2023).

37. Takehiro Ito, Yuni Iwamasa, Naoyuki Kamiyama, Yasuaki Kobayashi, Yusuke Kobayashi, Shun-ichi Maezawa, Akira Suzuki

Reconfiguration of Time-Respecting Arborescences

Proceedings of the 18th Algorithms and Data Structures Symposium (WADS), LNCS 14079, pp.521–532 (2023).

36. Takehiro Ito, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Yoshio Okamoto Algorithmic Theory of Qubit Routing

Proceedings of the 18th Algorithms and Data Structures Symposium (WADS), LNCS 14079, pp.533–546 (2023).

35. Takehiro Ito, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Shun-ichi Maezawa, Yuta Nozaki, Yoshio Okamoto

Hardness of Finding Combinatorial Shortest Paths on Graph Associahedra

Proceedings of the 50th EATCS International Colloquium on Automata, Languages and Programming (ICALP), LIPIcs 261, pp.82:1–82:17 (2023).

34. Takehiro Ito, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Yuta Nozaki, Yoshio Okamoto, Kenta Ozeki

On Reachable Assignments under Dichotomous Preferences

Proceedings of the 24th International Conference on Principles and Practice of Multi-Agent Systems (PRIMA), LNCS 13753, pp.650–658 (2022).

33. Takehiro Ito, Yuni Iwamasa, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Yuta Nozaki, Yoshio Okamoto, Kenta Ozeki

Reforming an Envy-Free Matching

Proceedings of the 36th AAAI Conference on Artificial Intelligence (AAAI), pp.5084–5091 (2022).

32. Hiroaki Yamada, Masataka Shirahashi, Naoyuki Kamiyama, Yumeka Nakajima

MAS Network: Surrogate Neural Network for Multi-Agent Simulation

Proceedings of the 22nd International Workshop on Multi-Agent-Based Simulation (MABS), LNCS 13128, pp.113–124 (2022).

31. Takehiro Ito, Yuni Iwamasa, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Shun-ichi Maezawa, Yuta Nozaki, Yoshio Okamoto, Kenta Ozeki

Monotone Edge Flips to an Orientation of Maximum Edge-Connectivity à la Nash-Williams Proceedings of the 2022 Annual ACM/SIAM Symposium on Discrete Algorithms (SODA), pp.1342–1355 (2022).

30. Hiroaki Yamada and Naoyuki Kamiyama

Optimal Control of Pedestrian Flows by Congestion Forecasts Satisfying User Equilibrium Conditions

Proceedings of the 23rd International Conference on Principles and Practice of Multi-Agent Systems (PRIMA), LNCS 12568, pp.299–314 (2021).

29. Naovuki Kamiyama

On Stable Matchings with Pairwise Preferences and Matroid Constraints

Proceedings of the 19th International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pp.584–592 (2020).

28. Takehiro Ito, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Yoshio Okamoto Shortest Reconfiguration of Perfect Matchings via Alternating Cycles

Proceedings of the 27th Annual European Symposium on Algorithms (ESA), LIPIcs 144, pp.61:1–61:15 (2019).

27. Takehiro Ito, Naoyuki Kamiyama, Yusuke Kobayashi, Yoshio Okamoto

Algorithms for Gerrymandering Over Graphs

Proceedings of the 18th International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pp.1413–1421 (2019).

26. Naoyuki Kamiyama

Many-to-Many Stable Matchings with Ties, Master Preference Lists, and Matroid Constraints Proceedings of the 18th International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pp.583–591 (2019).

25. Takashi Ishizuka and Naoyuki Kamiyama

On the Complexity of Stable Fractional Hypergraph Matching

Proceedings of the 29th International Symposium on Algorithms and Computation (ISAAC), LIPIcs 123, pp.11:1–11:12 (2018).

24. Naonori Kakimura, Naoyuki Kamiyama, Kenjiro Takazawa

The b-Branching Problem in Digraphs

Proceedings of the 43rd International Symposium on Mathematical Foundations of Computer Science (MFCS), LIPIcs 117, pp.121–1215 (2018).

23. Naoyuki Kamiyama

Submodular Function Minimization with Submodular Set Covering Constraints and Precedence Constraints

Proceedings of the 15th Workshop on Approximation and Online Algorithms (WAOA), LNCS 10787, pp.90–101 (2018).

22. Takehiro Ito, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Yoshio Okamoto, Taichi Shiitada

Tight Approximability of the Server Allocation Problem for Real-Time Applications

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21. Hiroaki Yamada, Kotaro Ohori, Tadashige Iwao, Akifumi Kira, Naoyuki Kamiyama, Hiroaki Yoshida, Hirokazu Anai

Modeling and Managing Airport Passenger Flow under Uncertainty: A Case of Fukuoka Airport in Japan

Proceedings of the 9th International Conference on Social Informatics (SocInfo), LNCS 10540, pp.419–430 (2017).

20. Takehiro Ito, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Yoshio Okamoto **Reconfiguration of Maximum-Weight** *b***-Matchings in a Graph**

Proceedings of the 23rd Annual International Computing and Combinatorics Conference (COCOON), LNCS 10392, pp.287–296 (2017).

19. Yosuke Hanawa, Yuya Higashikawa, Naoyuki Kamiyama, Naoki Katoh, Atsushi Takizawa The Mixed Evacuation Problem

Proceedings of the 10th Annual International Conference on Combinatorial Optimization and Applications (COCOA), LNCS 10043, pp.18–32 (2016).

18. Takehiro Ito, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Yoshio Okamoto Efficient Stabilization of Cooperative Matching Games

Proceedings of the 15th International Conference on Autonomous Agents and MultiAgent Systems (AAMAS), pp.41–49 (2016).

17. Chien-Chung Huang, Naonori Kakimura, Naoyuki Kamiyama

Exact and Approximation Algorithms for Weighted Matroid Intersection

Proceedings of the 27th Annual ACM/SIAM Symposium on Discrete Algorithms (SODA), pp.430–444 (2016).

16. Naoyuki Kamiyama

Stable Matchings with Ties, Master Preference Lists, and Matroid Constraints

Proceedings of the 8th International Symposium on Algorithmic Game Theory (SAGT), LNCS 9347, pp.3–14 (2015).

15. Takehiro Ito, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Yoshio Okamoto **Minimum-Cost** *b***-Edge Dominating Sets on Trees**

Proceedings of the 25th International Symposium on Algorithms and Computation (ISAAC), LNCS 8889, pp.195–207 (2014).

14. Naoyuki Kamiyama

The Popular Matching and Condensation Problems under Matroid Constraints

Proceedings of the 8th Annual International Conference on Combinatorial Optimization and Applications (COCOA), LNCS 8881, pp.713–728 (2014).

13. Yuya Higashikawa, Naoyuki Kamiyama, Naoki Katoh, Yuki Kobayashi

An Inductive Construction of Minimally Rigid Body-Hinge Simple Graphs

Proceedings of the 7th Annual International Conference on Combinatorial Optimization and Applications (COCOA), LNCS 8287, pp.165–177 (2013).

12. Tamás Fleiner and Naoyuki Kamiyama

A Matroid Approach to Stable Matchings with Lower Quotas

Proceedings of the 23rd Annual ACM/SIAM Symposium on Discrete Algorithms (SODA), pp.135–142 (2012).

11. Naoyuki Kamiyama

Robustness of Minimum Cost Arborescences

Proceedings of the 22nd International Symposium on Algorithms and Computation (ISAAC), LNCS 7074, pp.130–139 (2011).

10. Yusuke Matsumoto, Naoyuki Kamiyama, Keiko Imai

On Totally Unimodularity of Edge-Edge Adjacency Matrices

Proceedings of the 17th Annual International Computing and Combinatorics Conference (COCOON), LNCS 6842, pp.354–365 (2011).

9. Naoyuki Kamiyama

Submodular Function Minimization under a Submodular Set Covering Constraint

Proceedings of the 8th Annual Conference on Theory and Applications of Models of Computation (TAMC), LNCS 6648, pp.133–141 (2011).

8. Naoyuki Kamiyama and Tomomi Matsui

Approximation Algorithms for Data Association Problem Arising from Multitarget Tracking Proceedings of the 17th Computing the Australasian Theory Symposium (CATS), CRPIT 119, pp.137–144 (2011).

7. Naoyuki Kamiyama

The Prize-Collecting Edge Dominating Set Problem in Trees

Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science (MFCS), LNCS 6281, pp.465–476 (2010).

6. Naoyuki Kamiyama and Naoki Katoh

A Polynomial-Time Algorithm for the Universally Quickest Transshipment Problem in a Certain Class of Dynamic Networks with Uniform Path-Lengths

Proceedings of the 20th International Symposium on Algorithms and Computation (ISAAC), LNCS 5878, pp.802–811 (2009).

5. Naoyuki Kamiyama and Naoki Katoh

The Minimum Weight In-Tree Cover Problem

Proceedings of the 2nd International Conference on Modelling, Computation and Optimization in Information Systems and Management Sciences (MCO), CCIS 14, pp.155–164 (2008).

4. Naoyuki Kamiyama and Naoki Katoh

Covering Directed Graphs by In-Trees

Proceedings of the 14th Annual International Computing and Combinatorics Conference (COCOON), LNCS 5092, pp.444–457 (2008).

3. Naoyuki Kamiyama, Naoki Katoh, Atsushi Takizawa

Arc-Disjoint In-Trees in Directed Graphs

Proceedings of the 19th Annual ACM/SIAM Symposium on Discrete Algorithms (SODA), pp.518–526 (2008).

2. Naoyuki Kamiyama, Naoki Katoh, Atsushi Takizawa

An Efficient Algorithm for the Evacuation Problem in a Certain Class of a Network with Uniform Path-Lengths

Proceedings of the 3rd International Conference on Algorithmic Aspect in Information and Management (AAIM), LNCS 4508, pp.178–190 (2007).

1. Naoyuki Kamiyama, Naoki Katoh, Atsushi Takizawa

An Efficient Algorithm for Evacuation Problems in Dynamic Network Flows with Uniform Arc Capacity

Proceedings of the 2nd International Conference on Algorithmic Aspect in Information and Management (AAIM), LNCS 4041, pp.231–242 (2006).

Scientific Service

Journal Editor

International Journal of Mathematics for Industry, subject editor (2023–)

Peer-Reviewed Conference Program Committee

39th AAAI Conference on Artificial Intelligence (AAAI), 2025 33rd International Joint Conference on Artificial Intelligence (IJCAI), 2024 8th International Symposium on Combinatorial Optimization (ISCO), 2024 38th AAAI Conference on Artificial Intelligence (AAAI), 2024 32nd International Joint Conference on Artificial Intelligence (IJCAI), 2023 13th International Conference on Algorithms and Complexity (CIAC), 2023 37th AAAI Conference on Artificial Intelligence (AAAI), 2023 7th International Symposium on Combinatorial Optimization (ISCO), 2022 36th AAAI Conference on Artificial Intelligence (AAAI), 2022 35th AAAI Conference on Artificial Intelligence (AAAI), 2021 31st International Symposium on Algorithms and Computation (ISAAC), 2020 14th International Frontiers of Algorithmics Workshop (FAW), 2020 6th International Symposium on Combinatorial Optimization (ISCO), 2020 34th AAAI Conference on Artificial Intelligence (AAAI), 2020 5th International Symposium on Combinatorial Optimization (ISCO), 2017 28th International Symposium on Algorithms and Computation (ISAAC), 2017 4th International Symposium on Combinatorial Optimization (ISCO), 2016

Peer-Reviewed Conference Organizing Committee

32nd International Symposium on Algorithms and Computation (ISAAC), chair, 2021

Journal Referee

ACM Transactions on Algorithms, Algorithmica, Artificial Intelligence, Autonomous Agents and Multi-Agent Systems Combinatorica, Discrete Applied Mathematics, Discrete Mathematics, Discrete Optimization, EURO Journal on Computational Optimization, European Journal of Combinatorics Games and Economic Behavior, Graphs and Combinatorics, IEICE Transactions, Information Processing Letters, International Journal of Mathematics for Industry, Japan Journal of Industrial and Applied Mathematics, Journal of Combinatorial Optimization, Journal of the Operations Research Society of Japan, Journal of Mathematical Economics, Mathematical Programming, Mathematics of Operations Research, Networks, Optimization Methods and Software, Optimization Letters, Pacific Journal of Optimization, RAIRO – Operations Research, RIMS Kokyuroku Bessatsu, SIAM Journal on Discrete Mathematics, SIAM Journal on Optimization, The International Journal of Foundation of Computer Science, and Theoretical Computer Science.

Conference Referee

AAAI Conference on Artificial Intelligence (AAAI), Annual International Conference on Combinatorial Optimization and Applications (COCOA), Annual International Computing and Combinatorics Conference (COCOON), Annual European Symposium on Algorithms (ESA), International Conference on Approximation Algorithms for Combinatorial Optimization Problems (APPROX), International Frontiers of Algorithmics Workshop (FAW), International Symposium on Fundamentals of Computation Theory (FCT), Annual Symposium on Foundations of Computer Science (FOCS), IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS), International Colloquium on Automata, Languages, and Programming (ICALP), International Conference on Integer Programming and Combinatorial Optimization (IPCO), International Conference on Autonomous Agents and MultiAgent Systems (AAMAS), International Conference on Algorithms and Complexity (CIAC), International Joint Conference on Artificial Intelligence (IJCAI) International Symposium on Algorithms and Computation (ISAAC), International Symposium on Algorithmic Game Theory (SAGT), International Symposium on

Combinatorial Optimization (ISCO) International Symposium on Scheduling (ISS), International Conference on Language and Automata Theory and Applications (LATA), Latin American Theoretical Informatics Symposium (LATIN), International Symposium on Mathematical Foundations of Computer Science (MFCS), International Conference on Principles of Distributed Systems (OPODIS), Annual ACM/SIAM Symposium on Discrete Algorithms (SODA), Symposium on Theoretical Aspects of Computer Science (STACS), Algorithms and Data Structures Symposium (WADS), Workshop on Algorithms and Computation (WALCOM), and International Workshop on Graph-Theoretic Concepts in Computer Science (WG).

Ph.D. Students

Takashi Ishizuka (Kyushu University, 2022)