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

69. Naoyuki Kamiyama
Non-uniformly Stable Matchings
ACM Transactions on Economics and Computation, accepted.

68. Naoyuki Kamiyama
Strongly Stable Matchings under Matroid Constraints
SIAM Journal on Discrete Mathematics, vol.39, no.3, pp.1471–1490 (2025).

67. Naoyuki Kamiyama
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66. 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, vol.6, no.3, pp.19:1–19:17 (2025).

65. Naoyuki Kamiyama
Super-Stable Common Independent Sets of Generalized Matroids
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64. Naoyuki Kamiyama
Modifying an Instance of the Super-Stable Matching Problem
Information Processing Letters, vol.189, pp.106549 (2025).

63. Takehiro Ito, Yuni Iwamasa, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Yuta Nozaki, Yoshio Okamoto, Kenta Ozeki
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62. Ayumi Igarashi, Naoyuki Kamiyama, Warut Suksompong, Yuen Sheung Man
Reachability of Fair Allocations via Sequential Exchanges
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61. Kristóf Bérczi, Erika Bérczi-Kovács, Endre Boros, Fekadu Tolessa Gedefa, Naoyuki Kamiyama, Telikepalli Kavitha, Yusuke Kobayashi, Kazuhisa Makino
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On Reachable Assignments under Dichotomous Preferences
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58. Naoyuki Kamiyama
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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
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56. Naoyuki Kamiyama
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Monotone Edge Flips to an Orientation of Maximum Edge-Connectivity à la Nash-Williams,
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54. Naoyuki Kamiyama
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53. Takehiro Ito, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Yoshio Okamoto
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    An Improved Algorithm for Testing Substitutability of Weak Preferences
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    Minimum-Cost b-Edge Dominating Sets on Trees
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On Packing Arborescences in Temporal Networks
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22. Naoyuki Kamiyama
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Operations Research Letters, vol.43, pp.89–92 (2015).

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20. Yuya Higashikawa, Naoyuki Kamiyama, Naoki Katoh, Yuki Kobayashi
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19. Naoyuki Kamiyama
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Mathematics of Operations Research, vol.39, no.3, pp.851–862 (2014).

18. Naoyuki Kamiyama
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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
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15. Naoyuki Kamiyama
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14. András Frank, Satoru Fujishige, Naoyuki Kamiyama, Naoki Katoh
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13. Naoyuki Kamiyama
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Journal of Math-for-Industry, vol.4-B, pp.119-122 (2012).

12. Naoyuki Kamiyama
    Robustness of Minimum Cost Arborescences
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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, IJCAI, WSC, LNCS, LIPIcs, CRPIT, CCIS)

44. Ayumi Igarashi, Naoyuki Kamiyama, Yasushi Kawase, Warut Suksompong, Hanna Sumita, Yu Yokoi
    Two-Sided Fairness in Many-to-One Matching
    Proceedings of the 21st Conference on Web and Internet Economics (WINE), accepted.

43. Yuen Sheung Man, Ayumi Igarashi, Naoyuki Kamiyama, Warut Suksompong
    Reforming an Unfair Allocation by Exchanging Goods

Proceedings of the 36th International Symposium on Algorithms and Computation (ISAAC), accepted.

42. Takehiro Ito, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Yoshio Okamoto
Minimum Sum Coloring with Bundles in Trees and Bipartite Graphs
Proceedings of the 36th International Symposium on Algorithms and Computation (ISAAC), accepted.

41. Naoyuki Kamiyama, Hiroaki Yamada, Takashi Kato, Shizuo Kaji, Tetsuro Takahashi
A Topological Data Analysis Approach to Detecting Congestion in Pedestrian Crowds
Proceedings of the 2025 Winter Simulation Conference (WSC), accepted.

40. Yasunari Hikima and Naoyuki Kamiyama
An Inverse Optimization Approach to Contextual Inverse Optimization
Proceedings of the 34th International Joint Conference on Artificial Intelligence (IJCAI), 5354–5362 (2025).

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
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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
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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
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32. Hiroaki Yamada, Masataka Shirahashi, Naoyuki Kamiyama, Yumeka Nakajima
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31. Takehiro Ito, Yuni Iwamasa, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Shun-ichi Maezawa, Yuta Nozaki, Yoshio Okamoto, Kenta Ozeki
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30. Hiroaki Yamada and Naoyuki Kamiyama

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On the Complexity of Stable Fractional Hypergraph Matching
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Proceedings of the 15th Workshop on Approximation and Online Algorithms (WAOA), LNCS 10787, pp.90–101 (2018).

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A Matroid Approach to Stable Matchings with Lower Quotas
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A Polynomial-Time Algorithm for the Universally Quickest Transshipment Problem in a Certain Class of Dynamic Networks with Uniform Path-Lengths
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The Minimum Weight In-Tree Cover Problem
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An Efficient Algorithm for the Evacuation Problem in a Certain Class of a Network with Uniform Path-Lengths
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Scientific Service

Journal Editor

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

Peer-Reviewed Conference Program Committee

40th AAAI Conference on Artificial Intelligence (AAAI), 2026
28th European Conference on Artificial Intelligence (ECAI), 2025
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

Other Notable Conference Service

7th International Workshop on Matching Under Preferences (MATCHU-UP), PC, 2024
11th Hungarian-Japanese Symposium on Discrete Mathematics and Its Applications (HJ), PC, 2019
5th International Workshop on Matching Under Preferences (MATCHU-UP), PC, 2019
9th Hungarian-Japanese Symposium on Discrete Mathematics and Its Applications (HJ), PC chair, 2015
9th Hungarian-Japanese Symposium on Discrete Mathematics and Its Applications (HJ), OC, 2015

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 Conference on Language and Automata Theory and Applications (LATA), 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 Workshop on Computational Social Choice (COMSOC), 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. Student

Takashi Ishizuka (Kyushu University, 2022)