

研究業績リスト / Curriculum Vitae

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2026年1月31日

1 学術論文（査読有）

- [1.1] Daijiro Mizutani, Rie Ikushima, Koki Satsukawa, Yosuke Kawasaki and Masao Kuwahara, Integrating real-time monitoring information into asset failure modeling: application to ETC facilities, *Journal of Infrastructure Systems*, 2025 (Accepted).
- [1.2] Koki Satsukawa, Takamasa Iryo, Naoki Yoshizawa, Michael J. Smith and David Watling, Adjustment process of adaptive signal control strategies with route choices: a case study with Policy P0, *Transportmetrica B: Transport Dynamics*, 13(1), 2025.
- [1.3] Daijiro Mizutani, Shunichi Fukuyama and Koki Satsukawa, Optimal road facility spare parts location with continuum approximation, *Transportation Research Part C: Emerging Technologies*, 174, 105109, 2025.
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- [1.5] Takara Sakai, Takashi Akamatsu and Koki Satsukawa, Queue replacement principle for corridor problems with heterogeneous commuters, *Transportation Research Part B: Methodological*, 187, 103024, 2024.
- [1.6] Takara Sakai, Takashi Akamatsu and Koki Satsukawa, A paradox of telecommuting and staggered work hours in the bottleneck model, *Transportation Science*, 58(6), 1335-1351, 2024.
- [1.7] 佐津川功季, 原祐輔, 川崎洋輔, 井料隆雅, 需要の不確実性に対する都市交通サービスのバンドル予約システムの設計, 土木学会論文集, 80(9), 23-00206, 2024.
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- [1.9] 原祐輔, 川崎洋輔, 佐津川功季, 井料隆雅, 予約システムにおける探索行動と選好誘出の影響評価のための実験的アプローチ, 土木学会論文集, 79(20), 23-20020, 2023.
- [1.10] 佐津川功季, 水谷大二郎, 川崎洋輔, 金田威夫, 桑原雅夫, 故障時交通渋滞による経済損失を考慮した

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- [1.11] Haoran Fu, Takashi Akamatsu, Koki Satsukawa and Kentaro Wada, Dynamic traffic assignment in a corridor network with multiple bottlenecks: optimum versus equilibrium, *Transportation Research Part B: Methodological*, 161, 218-246, 2022.
- [1.12] Michael J. Smith, Takamasa Iryo, Richard Mounce, Koki Satsukawa and David Watling, Zero-queue traffic control, using green-times and prices together, *Transportation Research Part C: Emerging Technologies*, 138, 103630, 2022.
- [1.13] 生嶋理恵, 水谷大二郎, 佐津川功季, 川崎洋輔, 桑原雅夫, 現場技術者へのアンケート調査に基づく高速道路設備の維持管理施策の改善可能性, 土木学会論文集 F4 (建設マネジメント) , 78(1), 51-69, 2022.
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- [1.23] Koki Satsukawa and Sample Coauthor, Sample article for PDF-only listing (dummy), *Sample Journal*, 10(1), 1-10, 2020.

2 国際会議（査読有）

- [2.1] Koki Satsukawa and Yuki Takayama, New stable responsive local gating strategies to control vehicle queues and flows in congested urban networks, *The 26th International Symposium on Transportation and Traffic Theory (ISTTT26)*, Munich, Germany, 2026 (Accepted).
- [2.2] Riki Kawase, Koki Satsukawa and Toru Seo, Flexible and reliable transportation network design for emerging transportation services: multi-stage stochastic programming approach, *The 26th International Symposium on Transportation and Traffic Theory (ISTTT26)*, Munich, Germany, 2026 (Accepted).
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- [2.4] Sowa Suzuki, Haruki Takiguchi, Takamasa Iryo, Haruko Nakao, Koki Satsukawa, David Watling and Richard Connors, Designing pricing strategies for community-owned shared transport: An evolutionary approach, *The 29th International Conference of Hong Kong Society for Transportation Studies*, Hong Kong, China, 2025.
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- [2.6] Michael Smith, David Watling, Ronghui Liu, Koki Satsukawa, Takamasa Iryo and Richard Mounce, New stable responsive local gating strategies to control vehicle queues and flows in congested urban networks, *The 10th International Symposium on Dynamic Traffic Assignment (DTA2025)*, Salerno, Italy, 2025.
- [2.7] Takamasa Iryo, David Watling, Koki Satsukawa, Richard Connors, Haruko Nakao and Sowa Suzuki, Markov-chain-based model for the evolutionary process of self-financed shared mobility systems: Theoretical assessments, *The 10th International Symposium on Dynamic Traffic Assignment (DTA2025)*, Salerno, Italy, 2025.
- [2.8] Haruki Takiguchi, Sowa Suzuki, Takamasa Iryo, Koki Satsukawa and Haruko Nakao, Assessing the evolutionary process of self-financed shared mobility systems: A laboratory experimental approach, *The 10th International Symposium on Dynamic Traffic Assignment (DTA2025)*, Salerno, Italy, 2025.
- [2.9] Yuki Kosaka, Shota Tsurimoto, Masahiro Noguchi, Koki Satsukawa, Masayuki Takamura and Akihiro Nomura, Exploring optimal lifestyle modification pathway for preventing Cardiovascular disease using machine learning and pathfinding algorithms, *European Society of Cardiology Congress 2025 (ESC2025)*, Madrid, Spain, 2025.
- [2.10] Haruko Nakao, Koki Satsukawa, Takamasa Iryo, Richard Connors and Sowa Suzuki, Evolutionary process of self-financed shared mobility systems, *The Twelfth Triennial Symposium on Transportation Analysis (TRISTAN XII)*, Okinawa, Japan, 2025.
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- [2.12] Takara Sakai, Takashi Akamatsu and Koki Satsukawa, A paradox of telecommuting and staggered work hours in the bottleneck model, *The 25th International Symposium on Transportation and Traffic Theory (ISTTT25)*, Ann Arbor, USA, 2024.
- [2.13] Koki Satsukawa, Yusuke Hara, Yosuke Kawasaki and Takamasa Iryo, A study on the design of a reservation system for urban transport services under uncertainty, *The 9th International Symposium on Transport Network Resilience (INSTR2023)*, Hong Kong, China, 2023.
- [2.14] Takara Sakai, Takashi Akamatsu and Koki Satsukawa, Welfare impacts of remote and flexible working policies in the bottleneck model, *11th Symposium of the European Association for Research in Transportation (hEART2023)*, Zurich, Switzerland, 2023.
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- [2.18] Koki Satsukawa, Kentaro Wada and David Watling, Dynamic system optimal traffic assignment with atomic users: Convergence and stability, *The 24th International Symposium on Transportation and Traffic Theory (ISTTT24)*, Beijing, China (online), 2022.
- [2.19] Michael J. Smith, Takamasa Iryo, Richard Mounce, Koki Satsukawa and David Watling, Zero-queue traffic control using green-times and prices together, *The 8th International Symposium on Dynamic Traffic Assignment*, Seattle, USA (online), 2021.
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- [2.21] Kentaro Wada and Koki Satsukawa, A theoretical analysis of Macroscopic Fundamental Diagram based on dynamic user equilibrium, *The 6th International Symposium on Dynamic Traffic Assignment*, Sydney, Australia, 2016.
- [2.22] Koki Satsukawa and Kentaro Wada, Effect of origin-destination structures on network performance: Some simple examples, *The 20th International Conference of Hong Kong Society for Transportation Studies*, Hong Kong, China, 2015.

3 著書・解説

[3.1] 佐津川功季, 都市交通計画の基礎 (ダミー) , 交通工学出版, 2023.

4 招待講演

[4.1] 佐津川功季, 交通ネットワーク解析の最前線 (招待講演・ダミー) , 第 10 回交通システムシンポジウム, 2024 年 7 月.

5 その他会議発表等

国際セミナー・ワークショップ

[5.1] 佐津川功季, Network dynamics under uncertainty (dummy), International Traffic Flow Workshop, Kyoto, Japan, March 2024.

国内会議（査読無）

[5.2] 佐津川功季, 都市交通における需要変動分析 (ダミー) , 土木学会年次学術講演会, 2023 年 9 月.

6 競争的研究資金

[6.1] Grant-in-Aid for Scientific Research (C) (dummy), Japan Society for the Promotion of Science, Principal Investigator, 2024–2026, JPY 3,000,000.

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7 共同研究実績

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8 社会貢献

委員会等

[8.1] 交通計画委員会 委員 (ダミー) , 土木学会, 委員, 2024–.

学会活動

[8.2] 学会年次大会 運営補助（ダミー）, 交通工学研究会, 運営委員, 2023.

学術査読

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