Takahiro Matsunaga

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Education

Ph.D. in Civil Engineering, the University of Tokyo	*Since 2025.10*
M.S. in Civil Engineering, the University of Tokyo (Outstanding Paper Award)	*2024.04 – 2025.09*
B.S. in Civil Engineering, the University of Tokyo (Best Paper Award)	*2020.04 – 2024.03*

Journal Articles

[1] Takahiro Matsunaga and Eiji Hato. "Mean Field Game-based 3D Route Choice Model with Quantized Sensor Observations". en. In: *Transportation Research Part C: Emerging Technologies* (). revised and resubmitted, under review.

[7] 松永 隆宏 and 羽藤 英二. "BLE 観測の不確実性を考慮した屋内 3 次元経路選択モデルの推定". ja. In: **都市計画論文集** 59.3 (2024). 査読あり, pp. 1683–1690.

International Conferences

[2] Takahiro Matsunaga and Eiji Hato. "Interaction of 3D pedestrian flow in a congested railway station: Structural estimation based on Mean Field Game theory". In: *The 12th International Conference on Pedestrian and Evacuation Dynamics (PED 2025)*. Peer-reviewed, accepted, oral presentation. Prague, Czech Republic, Sept. 2025.

[5] Takahiro Matsunaga and Eiji Hato. "Joint Estimation of Latent OD Matrix and 3D Route Choice Model Across Railway Station Boundaries based on Manifold Learning". In: *The 28th International Conference of Hong Kong Society for Transportation Studies (HKSTS 2024)*. Peer-reviewed, oral presentation. Hong Kong, Dec. 2024.

[6] Takahiro Matsunaga and Eiji Hato. "Three-Dimensional Pedestrian Route Choice Model with Quantization of Observational Uncertainty". In: *IEEE International Conference on Intelligent Transportation Systems (ITSC)*. Peer-reviewed, oral presentation. Edmonton, Canada, Sept. 2024.

Domestic Conferences

[4] 松永 隆宏 and 羽藤 英二. "複雑な day-to-day 活動動態学習に基づく首都圏アクティビティ生成モデル". ja. In: **交通工学研究発表会**. 査読なし・口頭発表. 2025.

Awards

[3] *Outstanding Master Thesis*. The Department of Civil Engineering, The University of Tokyo, 2025.

[8] *Best Graduation Thesis*. The Department of Civil Engineering, The University of Tokyo, 2023.