

Publications

Journal Papers

1. Xiaolu Jia, Claudio Feliciani, Hisashi Murakami, Sakurako Tanida, Liang Chen, Hao Yue, Daichi Yanagisawa, Katsuhiro Nishinari
Inferring the structure of pedestrian flows at a transportation hub
Accident Analysis & Prevention, 228, 108391, 2026/04/01.
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2. Yuming Dong, Xiaolu Jia, Claudio Feliciani, Daichi Yanagisawa, Katsuhiro Nishinari
Boarding strategies of blended wing body passenger aircraft considering pedestrian overtaking behavior
Physica A, 683, 131212, 2026/02/01.
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3. Xi Lin, Akihito Nagahama, Daichi Yanagisawa, Katsuhiro Nishinari
From chaos to order: Evaluating behavior-driven road sign strategies in work zone management
Physica A, 675, 130816, 2025/10/01.
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4. Yuming Dong, Xiaolu Jia, Daichi Yanagisawa, Katsuhiro Nishinari
Boarding strategies accounting for properties of the blended wing body aircraft
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Evaluating Pedestrian Congestion Based on Missing Sensing Data
J. Disaster Res., 19, 2, 336-346, 2024/04/01.
<https://doi.org/10.20965/jdr.2024.p0336>
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6. Riku Miyagawa, Daichi Yanagisawa, Xiaolu Jia, Yasushi Shoji, Tetsuya Aikoh, Katsuhiro Nishinari
Modeling and Questionnaire Survey for Effective Regulated Egress Based on Level of Discomfort
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7. Satori Tsuzuki, Daichi Yanagisawa, Eri Itoh, Katsuhiko Nishinari
Effects of topological structure and destination selection strategies on agent dynamics in complex networks
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A jam-absorption driving system for reducing multiple moving jams by estimating moving jam propagation
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<https://doi.org/10.1016/j.trc.2023.104394>
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9. Riku Miyagawa, Daichi Yanagisawa, Xiaolu Jia, Katsuhiko Nishinari
Effective regulated egress at large event venues
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10. Hiroki Yamamoto, Daichi Yanagisawa, Katsuhiko Nishinari
Metastability due to a branching-merging structure in a simple network of an exclusion process
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11. Geng Cui, Daichi Yanagisawa, Katsuhiko Nishinari
Learning from experimental data to simulate pedestrian dynamics
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12. Riho Kawaguchi, Daichi Yanagisawa, Claudio Feliciani, Shigeto Nozaki, Yukari Abe, Makiko Mita, Katsuhiko Nishinari
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Revisiting the Level-of-Service Framework for Pedestrian Comfortability: Velocity Depicts More Accurate Perceived Congestion than Local Density
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A Data Driven Approach to Simulate Pedestrian Competitiveness Using the Social Force Model
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15. Yusuke Miyoshi, Daichi Yanagisawa, Katsuhiro Nishinari
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In: Hamdar S. (eds) Traffic and Granular Flow '17. TGF 2017. Springer, Cham, 347-355, 2019/10/24.
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16. Daichi Yanagisawa, Keisuke Yamazaki
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17. Akihito Nagahama, Daichi Yanagisawa, Katsuhiro Nishinari
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Japanese Papers

1. 浦田桂一郎, 柳澤大地, 西成活裕
東京ドームからの帰宅シミュレーション
[交通流と自己駆動粒子系シンポジウム論文集](#), 30, 2024 (査読有).
2. 柳澤 大地
[非マルコフ完全非対称単純排他過程の流量の近似式 \(可積分系数理の諸相\)](#),
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Analysis on an Impact of Conflict, Turning, and an Obstacle on Pedestrian Outflow
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Presentations

Legends:

- [S]: Sole author
- [F]: First author
- [P]: Presenter (not first author)
- [I]: Invited presentations
- [L]: Lectures (not original research presentation)
- [Z]: Presentation in private seminars (not open to public)

International Presentations

Apr. 2026(R08) - Mar. 2027(R09)

1. 2026/09/02-04
Xi Lin, Claudio Feliciani, Daichi Yanagisawa, Katsuhiro Nishinari
SHAP-Based Identification of Risk Phenotypes for Severe Vehicle-Pedestrian Crashes
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2. 2026/06/16-19
Zhiyang Cheng, Xiaolu Jia, Claudio Feliciani, Daichi Yanagisawa, Hao Yue, Katsuhiro Nishinari
Why Pedestrians Deviate from the Shortest Route: A Deadline Effect in Navigation and Behaviors
[Traffic and Granular Flow 2026 \(TGF2026\)](#), Bristol, United Kingdom, 2026/06/16-17 (Poster, Reviewed).
3. 2026/06/16-19
Chao Li, Tiejun Zhou, Daichi Yanagisawa, Katsuhiro Nishinari, Claudio Feliciani
Dynamic evacuation path planning in complex subway station hubs: a model calibrated by field and VR empirical data
[Traffic and Granular Flow 2026 \(TGF2026\)](#), Bristol, United Kingdom, 2026/06/16-17 (Poster, Reviewed).
4. 2026/06/16-19
Xi Lin, Giuseppe Vizzari, Claudio Feliciani, Daichi Yanagisawa, Katsuhiro Nishinari
What Drives COVID-19 Tokyo Metro Ridership Changes?
[Traffic and Granular Flow 2026 \(TGF2026\)](#), Bristol, United Kingdom, 2026/06/16-17 (Poster, Reviewed).
5. 2026/06/11-13
Xi Lin, Claudio Feliciani, Daichi Yanagisawa, Katsuhiro Nishinari
A Weighted Centrality-Based Approach to Assessing Station Importance in the Tokyo Metro Network
[11th International Conference on Civil, Structural and Transportation Engineering \(ICCSTE 2026\)](#), Barcelona, Spain, ID: 128, 2026/06/?? (Oral, Reviewed).

Apr. 2025(R07) - Mar. 2026(R08)

1. 2025/12/09-11
Xi Lin, Claudio Feliciani, Daichi Yanagisawa, Katsuhiro Nishinari
Linking COVID-19 Ridership Changes with Tokyo Metro Centralities
[12th International Symposium on Travel Demand Management \(TDM2025\)](#), Sydney, Australia, 2025/12/09 (Oral, Reviewed).
2. 2025/10/24-26
Daichi Yanagisawa [SI]
Managing pedestrian queueing systems: Adding a counter or providing guidance?
[2025 the 10th International Conference on Intelligent Transportation Engineering \(ICITE\)](#), Beijing, China, 2025/10/25 (Invited).
3. 2025/09/09-12
Yuming Dong, Xiaolu Jia, Daichi Yanagisawa, Katsuhiro Nishinari
Evacuation simulations accounting for properties of the blended wing body aircraft
[Pedestrian and Evacuation Dynamics 2025 \(PED2025\)](#), Czech Technical University (CTU) in Dejvice, Prague, Czech Republic, 2025/09/12 (Oral, Reviewed).
4. 2025/09/09-12
Xi Lin, Daichi Yanagisawa, Katsuhiro Nishinari
Passenger Data-Integrated Network Analysis of Tokyo Metro
[Pedestrian and Evacuation Dynamics 2025 \(PED2025\)](#), Czech Technical University (CTU) in Dejvice, Prague, Czech Republic, 2025/09/10 (Poster, Reviewed).
5. 2025/09/09-12
Jiawei Zhang, Sakurako Tanida, Xiaolu Jia, Claudio Feliciani, Daichi Yanagisawa, Katsuhiro Nishinari
Understanding Pedestrian Congestion in Merging Corridors: A Speed and Velocity Variance Approach
[Pedestrian and Evacuation Dynamics 2025 \(PED2025\)](#), Czech Technical University (CTU) in Dejvice, Prague, Czech Republic, 2025/09/12 (Oral, Reviewed).

Apr. 2024(R06) - Mar. 2025(R07)

1. 2024/12/02-05
Xiaolu Jia, Daichi Yanagisawa, Claudio Feliciani, Sakurako Tanida, Katsuhiro Nishinari
Characteristics of pedestrian flow at two-way ticket gates
[Traffic and Granular Flow 2024 \(TGF2024\)](#), Lyon, France, 2024/12/05 (Oral, Reviewed).
2. 2024/12/02-05
Siyu Li, Daichi Yanagisawa, Katsuhiro Nishinari
A jam-absorption driving system based on moving jam propagation estimation under partial roadside camera coverage
[Traffic and Granular Flow 2024 \(TGF2024\)](#), Lyon, France, 2024/12/03 (Poster, Reviewed).
3. 2024/12/02-05
Xi Lin, Akihito Nagahama, Daichi Yanagisawa
Impact of Road Sign on Traffic Congestion during Road Repair: A Cellular Automaton Model Study
[Traffic and Granular Flow 2024 \(TGF2024\)](#), Lyon, France, 2024/12/03 (Poster, Reviewed).
4. 2024/12/02-05
Yuming Dong, Xiaolu Jia, Daichi Yanagisawa, Katsuhiro Nishinari
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[Traffic and Granular Flow 2024 \(TGF2024\)](#), Lyon, France, 2024/12/02 (Poster, Reviewed).
5. 2024/12/02-05
Jiawei Zhang, Xiaolu Jia, Claudio Feliciani, Daichi Yanagisawa, Katsuhiro Nishinari
Crowd Temperature: An approach to analysing crowd congestion dynamics
[Traffic and Granular Flow 2024 \(TGF2024\)](#), Lyon, France, 2024/12/02 (Poster, Reviewed).
6. 2024/10/06-10
Siyu Li, Ryosuke Nishi, Daichi Yanagisawa, Katsuhiro Nishinari
Jam-Absorption Driving with Data Assimilation
[IEEE International Conference on Systems, Man, and Cybernetics 2024 \(IEEE SMC 2024\)](#), Borneo Convention Centre Kuching, Sarawak, Malaysia, Presentation number: 1394, 2024/10/09 (Oral, Reviewed).
7. 2024/09/02-04
Yuming Dong, Xiaolu Jia, Daichi Yanagisawa, Katsuhiro Nishinari
Agent based modelling of blended wing body aircraft boarding strategies
[Conference in Emerging Technologies in Transportation Systems \(TRC-30\)](#), Cultural Conference Center of Heraklion in Crete, Greece, 2024/09/04 (Poster, Reviewed).
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8. 2024/08/07-08
Siyu Li, Daichi Yanagisawa, Katsuhiro Nishinari
A jam-absorption driving system based on moving jam propagation estimation
[Bridging Transportation Researchers 6 \(BTR6\)](#), Online, 2024/08/08 (Oral, Reviewed).
9. 2024/08/07-08
Siyu Li, Ryosuke Nishi, Daichi Yanagisawa, Katsuhiro Nishinari
Data assimilation embedded jam-absorption driving for reducing freeway traffic jams caused by a sag
[Bridging Transportation Researchers 6 \(BTR6\)](#), Online, 2024/08/07 (Oral, Reviewed).

Apr. 2023(R05) - Mar. 2024(R06)

1. 2023/10/28-30
Xiaolu Jia, Claudio Feliciani, Sakurako Tanida, Daichi Yanagisawa, Katsuhiro Nishinari
Numerical Simulation on the Necessity of Route Information when Estimating the Pedestrian Origin-Destination Flow
[2023 IEEE the 8th International Conference on Intelligent Transportation Engineering \(ICITE2023\)](#), Beijing, China, 2023/10/29 (Oral, Reviewed).
2. 2023/08/07-11 [F]
Daichi Yanagisawa, Takahiro Ezaki, Akiyasu Tomoeda, Katsuhiro Nishinari
[Approximate theoretical analysis of non-Poissonian totally asymmetric simple exclusion process](#)
[28th International Conference on Statistical Physics \(STATPHYS28\)](#), The University of Tokyo, Hongo campus, Tokyo, Japan (Hybrid), Poster ID: PSc-03, 2023/08/08 (Online-Poster, Reviewed without comments).
3. 2023/07/09-14 [I]
Claudio Feliciani, Katsuhiro Nishinari, Daichi Yanagisawa
Fundamental Elements in the Development of Effective Crowd Control Strategies
[The 22nd World Congress of the International Federation of Automatic Control \(IFAC World Congress 2023\)](#), FrA13 Swarm Control, PACIFICO YOKOHAMA, Yokohama, Japan, 2023/07/14 (Oral, Invited).
4. 2023/06/28-30
Yuming Dong, Xiaolu Jia, Daichi Yanagisawa, Katsuhiro Nishinari
A Novel Boarding Method for Blended Wing Body Passenger Aircrafts
[11th International Conference on Pedestrian and Evacuation Dynamics \(PED2023\)](#), Eindhoven University of Technology, Eindhoven, The Netherlands, Poster ID: 48, 2023/06/28, 29 (Poster, Reviewed).
5. 2023/06/28-30
Xiaolu Jia, Claudio Feliciani, Sakurako Tanida, Daichi Yanagisawa, Katsuhiro Nishinari
Estimation of Pedestrian Origin-Destination Flow Based on Gravity Model
[11th International Conference on Pedestrian and Evacuation Dynamics \(PED2023\)](#), Eindhoven University of Technology, Eindhoven, The Netherlands, Poster ID: 31, 2023/06/28, 29 (Poster, Reviewed).

Apr. 2022(R04) - Mar. 2023(R05)

1. 2022/10/15-17 [F]
Daichi Yanagisawa, Takahiro Ezaki, Akiyasu Tomoeda, Katsuhiro Nishinari
Non-Poissonian cellular automaton models for vehicular traffic
[Traffic and Granular Flow 2022](#) in Indian Institute of Technology, Delhi, India (Hybrid), 2022/10/17 (Oral, Reviewed (Extended Abstract)).

Apr. 2021(R03) - Mar. 2022(R04)

1. 2021/11/29-30 [P]
Naoya Fujiki, Daichi Yanagisawa, Akihiro Fujita, Claudio Feliciani, Katsuhiro Nishinari
Effect of configuration of passengers on alighting time in train stations

Tenth International Conference on Pedestrian and Evacuation Dynamics (PED2021), #68, Online, Organized from Australia, 2021/11/29-30 (Oral (Recorded), Reviewed).

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2. 2021/10/31 [S][I]

Daichi Yanagisawa

Analysis and application of pedestrians' body-rotation

WORKSHOP ON PEDESTRIAN TRAFFIC AND EVACUATION DYNAMICS 2021, Online and Hefei, China, 2021/10/31 (Oral, Invited).

Apr. 2020(R02) - Mar. 2021(R03)

Apr. 2019(R01) - Mar. 2020(R02)

1. 2020/01/29 [S][Z]

Daichi Yanagisawa

Body-rotation of Pedestrians: Experiments, Modeling and Application

CEE Seminar in The George Washington University, Washington, D.C., USA, 2020/01/29 (Oral).

2. 2020/01/12-16 [F]

Daichi Yanagisawa, Milad Haghani, Majid Sarvi

Experiments on Exit-Choice Behavior in Walking and Running Scenarios in Straight and L-shaped Corridors

Session: 1760, Traffic Flow Theory and Characteristics, Part 4, Paper: 20-03915,

2020 TRB Annual Meeting at the Walter E. Washington Convention Center, Washington, D.C., USA, 2020/01/15 (Poster, Reviewed).

3. 2019/07/02-05 [F]

Daichi Yanagisawa, Milad Haghani, Majid Sarvi

Exit-choice behaviour in evacuation through an L-shaped corridor

Traffic and Granular Flow 2019 in University of Navarra, Pamplona, Spain, 2019/07/04 (Oral, Reviewed).

4. 2019/06/25 [S][Z]

Daichi Yanagisawa

Experimental research on body-rotation of pedestrians

Seminar in University of Navarra, Pamplona, Spain, 2019/06/25 (Oral).

Domestic Presentations

Apr. 2025(R07) - Mar. 2026(R08)

1. 2026/01/21-23

池田 拓人, 谷田 桜子, 野崎 滋人, 柳澤 大地, 西成 活裕, Feliciani Claudio

状態依存サービス時間分布を持つMt/G/ ∞ モデルを用いた水族館混雑制御のデジタルツイン構築について

[応用確率シンポジウム](#), 九州大学 西新プラザ, 2026/01/23 (口頭, 査読なし)

2. 2026/01/21-23 [S]
柳澤 大地
複数窓口待ち行列において窓口追加と誘導はどちらが有効か？
Which is more effective in a multi-window queueing system: adding service windows or guiding customers?
[応用確率シンポジウム](#), 九州大学 西新プラザ, 2026/01/22 (口頭, 査読なし)
3. 2025/11/15
澤樹鷹人, 谷田桜子, 柳澤大地, 西成活裕
バス間相互作用と乗り継ぎを考慮した遅延対策
[第2回ソフトマター若手研究会](#), 千葉大学 西千葉キャンパス, 2025/11/15 (口頭, 査読なし)
4. 2025/09/16-19
張佳璋, 谷田桜子, 賈曉璐, フェリシャーニ クラウディオ, 柳澤大地, 西成活裕
群集の混雑ダイナミクスを分析するアプローチ II: 速度分散指標による構造依存性の解析
[日本物理学会 第 80 回 年次大会](#), 広島大学, 2025/09/16 (口頭, 査読なし)
5. 2025/04/03-04
川崎歩, フェリシャーニ・クラウディオ, 柳澤大地, 西成活裕
[レヴィウォークを用いた群ロボットによる未知環境探査に関する研究](#)
[日本航空宇宙学会 第56期 年会講演会](#), 東京大学 本郷キャンパス, 2025/04/03 (ポスター, 査読なし).

Apr. 2024(R06) - Mar. 2025(R07)

1. 2024/12/06-07
浦田桂一郎, 柳澤大地, 西成活裕
[東京ドームからの帰宅シミュレーション](#)
[第30回交通流と自己駆動粒子系シンポジウム](#), オンライン, 2024/12/06 (口頭, 査読あり).
2. 張佳璋, 賈曉璐, フェリシャーニ クラウディオ, 柳澤大地, 西成活裕
[群集の混雑ダイナミクスを分析するアプローチ](#)
[日本物理学会 第 79 回 年次大会](#), 北海道大学, 2024/09/16 (口頭, 査読なし)

Apr. 2023(R05) - Mar. 2024(R06)

1. 2024/03/08-09
澤樹鷹人, 柳澤大地, 西成活裕
交差のある航路における船舶最大流量
[超異分野学会2024 東京・関東大会](#), ベルサール新宿グランド コンファレンスセンター, P-137 (d1), 2024/03/08 (ポスター, 査読なし).
2. 2024/03/08-09
草次優樹, JIA Xiaolu, 柳澤大地, 西成活裕
ラウンドアバウトにおける歩行者流のセルオートマトンモデル
[超異分野学会2024 東京・関東大会](#), ベルサール新宿グランド コンファレンスセンター, P-025 (d1), 2024/03/08 (ポスター, 査読なし).
3. 2024/03/05
張佳璋, 賈曉璐, フェリシャーニ クラウディオ, 柳澤大地, 西成活裕

Apr. 2022(R04) - Mar. 2023(R05),

1. 2023/03/28, 02/27 [S]
柳澤大地,
ドローンの空撮画像を用いた交通渋滞予測,
JUTM 運航管理小委員会 第3回研究会, オンライン, 2023/03/28 (口頭).
ドローン統合情報利用プラットフォームの可能性を探る, 主催 国立研究開発法人宇宙航空研究開発機構, オンライン, 2023/02/27 (口頭).
2. 2022/12/12-13 [S][I][Z]
柳澤大地,
非マルコフ交通流セルオートマトンモデルの近似解析,
公立鳥取環境大学応用数理研究交流会, 鳥取市民交流センター (ハイブリッド), 2022/12/12 (口頭, 招待).
3. 2022/09/08-10
JIA XIAOLU, 柳澤大地, 谷田桜子, FELICIANI CLAUDIO, 西成活裕, 石黒裕樹,
重力モデルによる歩行者のOD交通量予測と測定誤差の影響,
[日本応用数理学会 2022 年度 年会](#), 北海道大学 (オンライン), H1-3-4, 2022/09/08 (口頭, 査読なし).
4. 2022/09/08-10
宮川陸, 柳澤大地, 西成活裕,
大規模イベント会場における規制退場の最適化,
[日本応用数理学会 2022 年度 年会](#), 北海道大学 (オンライン), H1-3-3, 2022/09/08 (口頭, 査読なし).
5. 2022/09/08-10
大庭帆貴, 柳澤大地, 西成活裕,
情報提供の遅れによる待ち時間の挙動の解析,
[日本応用数理学会 2022 年度 年会](#), 北海道大学 (オンライン), H1-3-2, 2022/09/08 (口頭, 査読なし).
6. 2022/08/20-22 [I][L]
西成活裕, 柳澤大地,
ASEP と渋滞学,
[Summer School 数理物理 2022 K. Itô meets M. Sato 一確率論と可積分系の邂逅一](#), 東京大学 (オンライン), 2022/08/21-22 の2日間を柳澤が担当 (招待講師).

Apr. 2021(R03) - Mar. 2022(R04)

7. 2022/03/08-09
山本拓磨, 柳澤大地, 西成活裕,
交通流 CA モデルにおける危険性指標,
[日本応用数理学会 第18回 研究部会連合発表会](#), 九州大学 (オンライン), 2022/03/09 (口頭, 査読なし).
8. 2022/03/08-09
林志穂, Xiaolu Jia, 柳澤大地, 西成活裕,

確率セルオートマトンモデルによる群集流への合流と逆流の比較及び誘導の必要性の検討,
[日本応用数理学会 第18回 研究部会連合発表会](#), 九州大学 (オンライン), 2022/03/09 (口頭, 査読なし).

9. 2022/03/07-09 [S]

柳澤大地,
セルオートマトンを用いた飲食店利用客のエージェントシミュレーション,
[サービス学会 第10回 国内大会](#), 東京大学 (オンライン), 2022/03/07 (ポスター, 査読あり).

10. 2022/03/07-09

大庭帆貴, 柳澤大地, 西成活裕,
遊園地の訪問客の満足度としての効用関数,
[サービス学会 第10回 国内大会](#), 東京大学 (オンライン), 2022/03/07 (口頭, 査読あり).

11. 2020/03/04-05 [S]

柳澤 大地,
吉野家のエージェントシミュレーション,
[超異分野学会 東京大会2022](#), TOC GOTANDA MESSE (TOC五反田メッセ), P-125, 2022/03/05 (ポスター, 短時間口頭発表, 査読なし).

12. 2022/03/04-05

宮川陸, 柳澤大地, 西成活裕,
大規模イベント会場における規制退場,
[超異分野学会 東京大会2022](#), TOC GOTANDA MESSE (TOC五反田メッセ), P-027, 2022/03/05 (ポスター, 査読なし).

13. 2022/03/04-05

吉川航生, 柳澤大地, 西成活裕,
改札機周辺の人流解析,
[超異分野学会 東京大会2022](#), TOC GOTANDA MESSE (TOC五反田メッセ), P-025, 2022/03/05 (ポスター, 短時間口頭発表, 査読なし).

14. 2021/08/25-27 [S][I]

柳澤大地,
非マルコフ完全非対称単純排他過程の流量の近似式,
[RIMS共同研究\(公開型\)「可積分系数理の諸相」](#), オンライン, 2021/08/25 (口頭発表, 招待).

Apr. 2020(R02) - Mar. 2021(R03)

15. 2021/03/18-20 [F]

柳澤大地, 久保大輔, 木村紋子, 李思宇, 西遼佑, 西成活裕,
ドローン撮影画像を用いた渋滞予測方法のシミュレーションによる精度検証,
[情報処理学会 第83回全国大会](#), 2B-01, オンライン, 2021/03/18 (口頭, 査読なし).
Daichi Yanagisawa, Daisuke Kubo, Ayako Kimura, Siyu Li, Ryosuke Nishi, Katsuhiro Nishinari,
Accuracy verification of traffic-jam forecast using image data from drones by simulation,
The 83th National Convention of Information Processing Society of Japan, 2B-01, online, 2021/03/18 (Oral, in Japanese).

16. 2020/12/17-18, 26

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