

Shlomo Bekhor

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

3,046
citations

172386

29
h-index

182361

51
g-index

106
all docs

106
docs citations

106
times ranked

1935
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of choice set generation algorithms for route choice models. <i>Annals of Operations Research</i> , 2006, 144, 235-247.	2.6	178
2	Link-Nested Logit Model of Route Choice: Overcoming Route Overlapping Problem. <i>Transportation Research Record</i> , 1998, 1645, 133-142.	1.0	166
3	Route Choice Models Used in the Stochastic User Equilibrium Problem: A Review. <i>Transport Reviews</i> , 2004, 24, 437-463.	4.7	161
4	C-logit stochastic user equilibrium model: formulations and solution algorithm. <i>Transportmetrica</i> , 2012, 8, 17-41.	1.8	121
5	Investigation of Stochastic Network Loading Procedures. <i>Transportation Research Record</i> , 1998, 1645, 94-102.	1.0	91
6	Adaptation of Logit Kernel to Route Choice Situation. <i>Transportation Research Record</i> , 2002, 1805, 78-85.	1.0	91
7	Investigating path-based solution algorithms to the stochastic user equilibrium problem. <i>Transportation Research Part B: Methodological</i> , 2005, 39, 279-295.	2.8	90
8	Modeling Route Choice Behavior. <i>Transportation Research Record</i> , 2007, 2003, 64-73.	1.0	86
9	Stochastic User Equilibrium Formulation for Generalized Nested Logit Model. <i>Transportation Research Record</i> , 2001, 1752, 84-90.	1.0	84
10	Risk evaluation by modeling of passing behavior on two-lane rural highways. <i>Accident Analysis and Prevention</i> , 2009, 41, 887-894.	3.0	84
11	Latent variables and route choice behavior. <i>Transportation</i> , 2012, 39, 299-319.	2.1	83
12	EFFECTS OF CHOICE SET SIZE AND ROUTE CHOICE MODELS ON PATH-BASED TRAFFIC ASSIGNMENT. <i>Transportmetrica</i> , 2008, 4, 117-133.	1.8	82
13	Applying Branch-and-Bound Technique to Route Choice Set Generation. <i>Transportation Research Record</i> , 2006, 1985, 19-28.	1.0	78
14	The Factor of Revisited Path Size. <i>Transportation Research Record</i> , 2008, 2076, 132-140.	1.0	78
15	A passing gap acceptance model for two-lane rural highways. <i>Transportmetrica</i> , 2009, 5, 159-172.	1.8	78
16	Analysis of evacuation behavior in a wildfire event. <i>International Journal of Disaster Risk Reduction</i> , 2018, 31, 1366-1373.	1.8	78
17	Augmented Betweenness Centrality for Environmentally Aware Traffic Monitoring in Transportation Networks. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2013, 17, 91-105.	2.6	73
18	Applying Branch-and-Bound Technique to Route Choice Set Generation. <i>Transportation Research Record</i> , 2006, 1985, 19-28.	1.0	65

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19	Evaluating long-distance travel patterns in Israel by tracking cellular phone positions. <i>Journal of Advanced Transportation</i> , 2013, 47, 435-446.	0.9	57
20	Mapping patterns of pedestrian fatal accidents in Israel. <i>Accident Analysis and Prevention</i> , 2012, 44, 56-62.	3.0	56
21	GEV-based destination choice models that account for unobserved similarities among alternatives. <i>Transportation Research Part B: Methodological</i> , 2008, 42, 243-262.	2.8	53
22	A Path-Based Algorithm for the Cross-Nested Logit Stochastic User Equilibrium Traffic Assignment. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2009, 24, 15-25.	6.3	47
23	Some observations on stochastic user equilibrium and system optimum of traffic assignment. <i>Transportation Research Part B: Methodological</i> , 2000, 34, 277-291.	2.8	42
24	Accounting for sensation seeking in route choice behavior with travel time information. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2014, 22, 39-49.	1.8	38
25	Integration of Activity-Based and Agent-Based Models. <i>Transportation Research Record</i> , 2011, 2255, 38-47.	1.0	36
26	Path-Based Algorithms to Solve C-Logit Stochastic User Equilibrium Assignment Problem. <i>Transportation Research Record</i> , 2012, 2279, 21-30.	1.0	35
27	Stochastic User Equilibrium for Route Choice Model Based on Random Regret Minimization. <i>Transportation Research Record</i> , 2012, 2284, 100-108.	1.0	34
28	DISCRETE CHOICE MODELING OF COMBINED MODE AND DEPARTURE TIME. <i>Transportmetrica</i> , 2008, 4, 155-177.	1.8	32
29	Association of risk proneness in overtaking maneuvers with impaired decision making. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2008, 11, 313-323.	1.8	31
30	Structural equations modelling of drivers' speed selection using environmental, driver, and risk factors. <i>Accident Analysis and Prevention</i> , 2018, 116, 21-29.	3.0	31
31	Route choice behaviour with pre-trip travel time information. <i>IET Intelligent Transport Systems</i> , 2011, 5, 183.	1.7	30
32	Incorporating Ridesharing in the Static Traffic Assignment Model. <i>Networks and Spatial Economics</i> , 2016, 16, 1125-1149.	0.7	30
33	Methodological transferability in route choice modeling. <i>Transportation Research Part B: Methodological</i> , 2009, 43, 422-437.	2.8	29
34	Application of Cross-Nested Logit Route Choice Model in Stochastic User Equilibrium Traffic Assignment. <i>Transportation Research Record</i> , 2007, 2003, 41-49.	1.0	28
35	Impact of vehicle automation and electric propulsion on production costs for mobility services worldwide. <i>Transportation Research, Part A: Policy and Practice</i> , 2020, 138, 105-126.	2.0	27
36	A frequency based transit assignment model that considers online information. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 88, 17-30.	3.9	26

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37	Aggregated GPS tracking of vehicles and its use as a proxy of traffic-related air pollution emissions. Atmospheric Environment, 2016, 142, 351-359.	1.9	25
38	Data-driven nonlinear optimisation of a simple air pollution dispersion model generating high resolution spatiotemporal exposure. Atmospheric Environment, 2013, 79, 261-270.	1.9	23
39	A dynamic traffic assignment model for the assessment of moving bottlenecks. Transportation Research Part C: Emerging Technologies, 2009, 17, 240-258.	3.9	22
40	Enriching Activity-Based Models using Smartphone-Based Travel Surveys. Transportation Research Record, 2018, 2672, 280-291.	1.0	22
41	Congestion, Stochastic, and Similarity Effects in Stochastic: User-Equilibrium Models. Transportation Research Record, 2000, 1733, 80-87.	1.0	21
42	The experienced mode choice set and its determinants: Commuting trips in the Netherlands. Transportation Research, Part A: Policy and Practice, 2020, 132, 744-758.	2.0	21
43	Investigating path-based solution algorithms to the stochastic user equilibrium problem. Transportation Research Part B: Methodological, 2005, 39, 279-295.	2.8	21
44	Development and estimation of a semi-compensatory model with a flexible error structure. Transportation Research Part B: Methodological, 2012, 46, 291-304.	2.8	19
45	Free-Flow Travel Speed Analysis and Monitoring at the National Level Using Global Positioning System Measurements. Journal of Transportation Engineering, 2013, 139, 1235-1243.	0.9	19
46	Intercity Person Trip Tables for Nationwide Transportation Planning in Israel Obtained from Massive Cell Phone Data. Transportation Research Record, 2009, 2121, 145-151.	1.0	17
47	Path Flow and Trip Matrix Estimation Using Link Flow Density. Networks and Spatial Economics, 2017, 17, 173-195.	0.7	17
48	The Relationship between Free-Flow Travel Speeds, Infrastructure Characteristics and Accidents, on Single-Carriageway Roads. Transportation Research Procedia, 2017, 25, 2026-2043.	0.8	17
49	Framework and Model for Parking Decisions. Transportation Research Record, 2012, 2319, 30-38.	1.0	16
50	Exploring relationships between driving events identified by in-vehicle data recorders, infrastructure characteristics and road crashes. Transportation Research Part C: Emerging Technologies, 2018, 91, 156-175.	3.9	16
51	Route Choice Models. , 2004, , 23-45.		15
52	A multi-objective optimization model for urban planning: The case of a very large floating structure. Transportation Research Part C: Emerging Technologies, 2019, 98, 85-100.	3.9	15
53	Car-Rider Segmentation According to Riding Status and Investment in Car Mobility. Transportation Research Record, 2004, 1894, 109-116.	1.0	14
54	Development and estimation of a semi-compensatory residential choice model based on explicit choice protocols. Annals of Regional Science, 2011, 47, 51-80.	1.0	14

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55	The Identification of Infrastructure Characteristics Influencing Travel Speeds on Single-carriageway Roads to Promote Self-explaining Roads. <i>Transportation Research Procedia</i> , 2016, 14, 4160-4169.	0.8	14
56	Travel behavior of special population groups. <i>Transportation</i> , 2008, 35, 579-583.	2.1	13
57	Data-driven choice set generation and estimation of route choice models. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 121, 102832.	3.9	13
58	A Dynamic Tree Algorithm for Peer-to-Peer Ridesharing Matching. <i>Networks and Spatial Economics</i> , 2021, 21, 801-837.	0.7	13
59	Two-Stage Model for Jointly Revealing Determinants of Noncompensatory Conjunctive Choice Set Formation and Compensatory Choice. <i>Transportation Research Record</i> , 2009, 2134, 153-163.	1.0	11
60	Methodology for Exploratory Analysis of Latent Factors Influencing Drivers' Behavior. <i>Transportation Research Record</i> , 2005, 1926, 115-125.	1.0	11
61	Equity Impacts of Transportation Improvements On Core and Peripheral Cities. <i>Journal of Transport and Land Use</i> , 2008, 1, .	0.7	11
62	Specification and Estimation of Mode Choice Model Capturing Similarity between Mixed Auto and Transit Alternatives. <i>Journal of Choice Modelling</i> , 2010, 3, 29-49.	1.2	10
63	Eliciting and estimating reservation price: A semi-compensatory approach. <i>Journal of Business Research</i> , 2011, 64, 45-50.	5.8	9
64	A parsimonious heuristic for the discrete network design problem. <i>Transportmetrica A: Transport Science</i> , 2016, 12, 43-64.	1.3	9
65	An Alternative Approach for Solving the Environmentally-Oriented Discrete Network Design Problem. <i>Networks and Spatial Economics</i> , 2017, 17, 963-988.	0.7	9
66	Web-based survey design for unravelling semi-compensatory choice in transport and urban planning. <i>Transportation Planning and Technology</i> , 2012, 35, 121-143.	0.9	8
67	A flexible model structure approach for discrete choice models. <i>Transportation</i> , 2013, 40, 609-624.	2.1	8
68	Investigation of travel patterns using passive cellular phone data. <i>Journal of Location Based Services</i> , 2015, 9, 93-112.	1.4	7
69	Speed variation for different drivers, situations, and road geometry: Simulator and survey analysis. <i>Journal of Transportation Safety and Security</i> , 2018, 10, 25-44.	1.1	7
70	A frequency based transit assignment model that considers online information and strict capacity constraints. <i>EURO Journal on Transportation and Logistics</i> , 2020, 9, 100005.	1.3	7
71	Drivers' Irrationality in Evaluating Risks on Two-Lane Highways. <i>Journal of Transportation Safety and Security</i> , 2012, 4, 67-82.	1.1	6
72	An examination of the national road-safety programs in the ten world's leading countries in road safety. <i>European Transport Research Review</i> , 2012, 4, 175-188.	2.3	6

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73	Limitation of the Artificial Neural Networks Methodology for Predicting the Vertical Swelling Percentage of Expansive Clays. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 1731-1741.	1.3	6
74	An airline itinerary choice model that includes the option to delay the decision. <i>Transportation Research, Part A: Policy and Practice</i> , 2017, 96, 64-78.	2.0	6
75	Network Analysis of the Tel Aviv Mass Transit Plan. <i>Urban Rail Transit</i> , 2018, 4, 23-34.	0.9	6
76	An infeasible start heuristic for the transit route network design problem. <i>Transportmetrica A: Transport Science</i> , 2020, 16, 388-408.	1.3	6
77	Implementation of Deep Neural Networks for Pavement Condition Index Prediction. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2022, 148, .	0.8	6
78	A variational autoencoder approach for choice set generation and implicit perception of alternatives in choice modeling. <i>Transportation Research Part B: Methodological</i> , 2022, 158, 273-294.	2.8	6
79	A congestion-dependent, Dynamic Flexibility Model of freeway networks. <i>Transportation Research Part C: Emerging Technologies</i> , 2013, 35, 104-114.	3.9	5
80	A personalized GeoSocial app for surviving an earthquake. , 2015, , .		5
81	Individual Selection of Driving Speeds: Analysis of a Stated Preference Survey. <i>Journal of Transportation Safety and Security</i> , 2015, 7, 291-306.	1.1	5
82	Network design problem considering system time minimization and road safety maximization: formulation and solution approaches. <i>Transportmetrica A: Transport Science</i> , 2017, 13, 829-851.	1.3	5
83	The relationship between travel speeds, infrastructure characteristics, and crashes on two-lane highways. <i>Journal of Transportation Safety and Security</i> , 2018, 10, 545-571.	1.1	5
84	Extracting Travel Demand for Emergency Situations Using Location-Based Social Network Data. <i>Transportation Research Procedia</i> , 2020, 45, 111-118.	0.8	5
85	Evolution of clusters in dynamic point patterns: with a case study of Ants' simulation. <i>International Journal of Geographical Information Science</i> , 2007, 21, 777-797.	2.2	4
86	Pattern Recognition and Classification of Fatal Traffic Accidents in Israel: A Neural Network Approach. <i>Journal of Transportation Safety and Security</i> , 2011, 3, 304-323.	1.1	4
87	Using the Artificial Neural Networks Methodology to Predict the Vertical Swelling Percentage of Expansive Clays. <i>Journal of Materials in Civil Engineering</i> , 2014, 26, 06014007.	1.3	4
88	Investment in Mobility by Car as an Explanatory Variable for Market Segmentation. <i>Journal of Public Transportation</i> , 2007, 10, 17-32.	0.3	4
89	Analysis of travel behavior in Arab communities in Israel: a comparison of household surveys. <i>Journal of Transport Geography</i> , 2011, 19, 162-169.	2.3	3
90	Hybrid Compensatoryâ€œNoncompensatory Choice Sets in Semicompensatory Models. <i>Transportation Research Record</i> , 2012, 2322, 10-19.	1.0	3

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91	Investigation of Conflict Characteristics at Airway Intersections. Journal of Transportation Engineering, 1994, 120, 843-859.	0.9	2
92	A latent class model with fuzzy segmentation and weighted variables. Transportmetrica A: Transport Science, 2014, 10, 878-893.	1.3	2
93	Prediction of the Vertical Swelling Percentage of Expansive Clays Using a Two-Stage Artificial Neural Networks Methodology. Journal of Testing and Evaluation, 2014, 42, 891-902.	0.4	2
94	Car following with an inertia-oriented driving technique: A driving simulator experiment. Transportation Research Part F: Traffic Psychology and Behaviour, 2022, 89, 72-83.	1.8	2
95	Flexible model structure for discrete-choice models. Proceedings of the Institution of Civil Engineers: Transport, 2012, 165, 39-47.	0.3	1
96	Properties of Dynamic Freeway Network Flexibility Model. Transportation Research Record, 2014, 2466, 98-104.	1.0	1
97	Reducing Vehicle Pollutant Emissions in Urban Areas with Alternative Parking Policies. , 2015, , 445-460.		1
98	Modeling Passengers' Preferences on a Short-Haul Domestic Airline with Rank-Ordered Data. Transportation Research Record, 2006, 1951, 1-6.	1.0	1
99	A Model for Evaluating Conflict Characteristics at Multiple Airway Intersections. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 351-358.	0.4	0
100	A frequency based transit assignment model that considers online information at the boarding stop. , 2016, , .		0
101	Residential Location Choice Models. , 2021, , 531-536.		0
102	Land use variables in trip generation models: The case of the light rail transit in Tel Aviv. , 2008, , 385-413.		0
103	Modular multi-dimensional tool for emergency evacuation including location-based social network data. Journal of Location Based Services, 2022, 16, 54-75.	1.4	0