Shlomo Bekhor

List of Publications by Citations

102 papers	2,370 citations	27 h-index	46 g-index
105 ext. papers	2,686 ext. citations	3.7 avg, IF	5.3 L-index

#	Paper	IF	Citations
102	Evaluation of choice set generation algorithms for route choice models. *Annals of Operations Research*, **2006**, 144, 235-247	3.2	151
101	Link-Nested Logit Model of Route Choice: Overcoming Route Overlapping Problem. *Transportation Research Record*, **1998**, 1645, 133-142	1.7	143
100	Route Choice Models Used in the Stochastic User Equilibrium Problem: A Review. *Transport Reviews* , **2004**, 24, 437-463	9.9	130
99	C-logit stochastic user equilibrium model: formulations and solution algorithm. *Transportmetrica*, **2012**, 8, 17-41		101
98	Adaptation of Logit Kernel to Route Choice Situation. *Transportation Research Record*, **2002**, 1805, 78-85	1.7	81
97	Stochastic User Equilibrium Formulation for Generalized Nested Logit Model. *Transportation Research Record*, **2001**, 1752, 84-90	1.7	77
96	Investigation of Stochastic Network Loading Procedures. *Transportation Research Record*, **1998**, 1645, 94-102	1.7	76
95	Latent variables and route choice behavior. *Transportation*, **2012**, 39, 299-319	4	73
94	Investigating path-based solution algorithms to the stochastic user equilibrium problem. *Transportation Research Part B: Methodological*, **2005**, 39, 279-295	7.2	73
93	Risk evaluation by modeling of passing behavior on two-lane rural highways. *Accident Analysis and Prevention*, **2009**, 41, 887-94	6.1	71
92	EFFECTS OF CHOICE SET SIZE AND ROUTE CHOICE MODELS ON PATH-BASED TRAFFIC ASSIGNMENT. *Transportmetrica*, **2008**, 4, 117-133		70
91	A passing gap acceptance model for two-lane rural highways. *Transportmetrica*, **2009**, 5, 159-172		64
90	The Factor of Revisited Path Size: Alternative Derivation. *Transportation Research Record*, **2008**, 2076, 132-140	1.7	64
89	Applying Branch-and-Bound Technique to Route Choice Set Generation. *Transportation Research Record*, **2006**, 1985, 19-28	1.7	64
88	Modeling Route Choice Behavior: How Relevant Is the Composition of Choice Set?. *Transportation Research Record*, **2007**, 2003, 64-73	1.7	63
87	Applying Branch-and-Bound Technique to Route Choice Set Generation		51
86	Augmented Betweenness Centrality for Environmentally Aware Traffic Monitoring in Transportation Networks. *Journal of Intelligent Transportation Systems: Technology, Planning, and Operations*, **2013**, 17, 91-105	3.2	48

85	GEV-based destination choice models that account for unobserved similarities among alternatives. *Transportation Research Part B: Methodological*, **2008**, 42, 243-262	7.2	48
84	Mapping patterns of pedestrian fatal accidents in Israel. *Accident Analysis and Prevention*, **2012**, 44, 56-63	6.1	44
83	Evaluating long-distance travel patterns in Israel by tracking cellular phone positions. *Journal of Advanced Transportation*, **2013**, 47, 435-446	1.9	44
82	A Path-Based Algorithm for the Cross-Nested Logit Stochastic User Equilibrium Traffic Assignment. *Computer-Aided Civil and Infrastructure Engineering*, **2009**, 24, 15-25	8.4	40
81	Analysis of evacuation behavior in a wildfire event. *International Journal of Disaster Risk Reduction*, **2018**, 31, 1366-1373	4.5	39
80	Accounting for sensation seeking in route choice behavior with travel time information. *Transportation Research Part F: Traffic Psychology and Behaviour*, **2014**, 22, 39-49	4.5	33
79	Integration of Activity-Based and Agent-Based Models: Case of Tel Aviv, Israel. *Transportation Research Record*, **2011**, 2255, 38-47	1.7	32
78	Some observations on stochastic user equilibrium and system optimum of traffic assignment. *Transportation Research Part B: Methodological*, **2000**, 34, 277-291	7.2	30
77	Path-Based Algorithms to Solve C-Logit Stochastic User Equilibrium Assignment Problem. *Transportation Research Record*, **2012**, 2279, 21-30	1.7	27
76	DISCRETE CHOICE MODELING OF COMBINED MODE AND DEPARTURE TIME. *Transportmetrica*, **2008**, 4, 155-177		27
75	Association of risk proneness in overtaking maneuvers with impaired decision making. *Transportation Research Part F: Traffic Psychology and Behaviour*, **2008**, 11, 313-323	4.5	26
74	Stochastic User Equilibrium for Route Choice Model Based on Random Regret Minimization. *Transportation Research Record*, **2012**, 2284, 100-108	1.7	25
73	Route choice behaviour with pre-trip travel time information. *IET Intelligent Transport Systems*, **2011**, 5, 183	2.4	24
72	Incorporating Ridesharing in the Static Traffic Assignment Model. *Networks and Spatial Economics*, **2016**, 16, 1125-1149	1.9	22
71	Data-driven nonlinear optimisation of a simple air pollution dispersion model generating high resolution spatiotemporal exposure. *Atmospheric Environment*, **2013**, 79, 261-270	5.3	22
70	Application of Cross-Nested Logit Route Choice Model in Stochastic User Equilibrium Traffic Assignment. *Transportation Research Record*, **2007**, 2003, 41-49	1.7	21
69	Structural equations modelling of drivers' speed selection using environmental, driver, and risk factors. *Accident Analysis and Prevention*, **2018**, 116, 21-29	6.1	20
68	A frequency based transit assignment model that considers online information. *Transportation Research Part C: Emerging Technologies*, **2018**, 88, 17-30	8.4	19

67	Methodological transferability in route choice modeling. *Transportation Research Part B: Methodological*, **2009**, 43, 422-437	7.2	19
66	Aggregated GPS tracking of vehicles and its use as a proxy of traffic-related air pollution emissions. *Atmospheric Environment*, **2016**, 142, 351-359	5.3	18
65	A dynamic traffic assignment model for the assessment of moving bottlenecks. *Transportation Research Part C: Emerging Technologies*, **2009**, 17, 240-258	8.4	18
64	Congestion, Stochastic, and Similarity Effects in Stochastic: User-Equilibrium Models. *Transportation Research Record*, **2000**, 1733, 80-87	1.7	17
63	Development and estimation of a semi-compensatory model with a flexible error structure. *Transportation Research Part B: Methodological*, **2012**, 46, 291-304	7.2	16
62	Free-Flow Travel Speed Analysis and Monitoring at the National Level Using Global Positioning System Measurements. *Journal of Transportation Engineering*, **2013**, 139, 1235-1243		15
61	Intercity Person Trip Tables for Nationwide Transportation Planning in Israel Obtained from Massive Cell Phone Data. *Transportation Research Record*, **2009**, 2121, 145-151	1.7	15
60	Enriching Activity-Based Models using Smartphone-Based Travel Surveys. *Transportation Research Record*, **2018**, 2672, 280-291	1.7	15
59	Path Flow and Trip Matrix Estimation Using Link Flow Density. *Networks and Spatial Economics*, **2017**, 17, 173-195	1.9	13
58	Impact of vehicle automation and electric propulsion on production costs for mobility services worldwide. *Transportation Research, Part A: Policy and Practice*, **2020**, 138, 105-126	3.7	13
57	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	8.4	13
56	The Identification of Infrastructure Characteristics Influencing Travel Speeds on Single-carriageway Roads to Promote Self-explaining Roads. *Transportation Research Procedia*, **2016**, 14, 4160-4169	2.4	13
55	Car-Rider Segmentation According to Riding Status and Investment in Car Mobility. *Transportation Research Record*, **2004**, 1894, 109-116	1.7	12
54	Framework and Model for Parking Decisions. *Transportation Research Record*, **2012**, 2319, 30-38	1.7	11
53	Travel behavior of special population groups. *Transportation*, **2008**, 35, 579-583	4	11
52	The Relationship between Free-Flow Travel Speeds, Infrastructure Characteristics and Accidents, on Single-Carriageway Roads. *Transportation Research Procedia*, **2017**, 25, 2026-2043	2.4	9
51	On the Rationality and Optimality of Transportation Networks Defense **2015**, 35-63		9
50	Two-Stage Model for Jointly Revealing Determinants of Noncompensatory Conjunctive Choice Set Formation and Compensatory Choice. *Transportation Research Record*, **2009**, 2134, 153-163	1.7	9

49	Route Choice Models **2004**, 23-45		9
48	Methodology for Exploratory Analysis of Latent Factors Influencing Drivers Behavior		9
47	Development and estimation of a semi-compensatory residential choice model based on explicit choice protocols. *Annals of Regional Science*, **2011**, 47, 51-80	1.1	8
46	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	8.4	8
45	A parsimonious heuristic for the discrete network design problem. *Transportmetrica A: Transport Science*, **2016**, 12, 43-64	2.5	7
44	A flexible model structure approach for discrete choice models. *Transportation*, **2013**, 40, 609-624	4	7
43	An Alternative Approach for Solving the Environmentally-Oriented Discrete Network Design Problem. *Networks and Spatial Economics*, **2017**, 17, 963-988	1.9	7
42	Investigation of travel patterns using passive cellular phone data. *Journal of Location Based Services* , **2015**, 9, 93-112	1.9	7
41	Web-based survey design for unravelling semi-compensatory choice in transport and urban planning. *Transportation Planning and Technology*, **2012**, 35, 121-143	1.6	7
40	Speed variation for different drivers, situations, and road geometry: Simulator and survey analysis. *Journal of Transportation Safety and Security*, **2018**, 10, 25-44	1.7	6
39	Limitation of the Artificial Neural Networks Methodology for Predicting the Vertical Swelling Percentage of Expansive Clays. *Journal of Materials in Civil Engineering*, **2013**, 25, 1731-1741	3	6
38	Eliciting and estimating reservation price: A semi-compensatory approach. *Journal of Business Research*, **2011**, 64, 45-50	8.7	6
37	Specification and Estimation of Mode Choice Model Capturing Similarity between Mixed Auto and Transit Alternatives. *Journal of Choice Modelling*, **2010**, 3, 29-49	3.8	6
36	An airline itinerary choice model that includes the option to delay the decision. *Transportation Research, Part A: Policy and Practice*, **2017**, 96, 64-78	3.7	5
35	The experienced mode choice set and its determinants: Commuting trips in the Netherlands. *Transportation Research, Part A: Policy and Practice*, **2020**, 132, 744-758	3.7	5
34	Individual Selection of Driving Speeds: Analysis of a Stated Preference Survey. *Journal of Transportation Safety and Security*, **2015**, 7, 291-306	1.7	5
33	Equity Impacts of Transportation Improvements On Core and Peripheral Cities. *Journal of Transport and Land Use*, **2008**, 1,	3.1	5
32	Extracting Travel Demand for Emergency Situations Using Location-Based Social Network Data. *Transportation Research Procedia*, **2020**, 45, 111-118	2.4	4

31	Network Analysis of the Tel Aviv Mass Transit Plan. *Urban Rail Transit*, **2018**, 4, 23-34	1.5	4
30	A congestion-dependent, Dynamic Flexibility Model of freeway networks. *Transportation Research Part C: Emerging Technologies*, **2013**, 35, 104-114	8.4	4
29	Network design problem considering system time minimization and road safety maximization: formulation and solution approaches. *Transportmetrica A: Transport Science*, **2017**, 13, 829-851	2.5	4
28	A personalized GeoSocial app for surviving an earthquake **2015**,		4
27	An examination of the national road-safety programs in the ten world leading countries in road safety. *European Transport Research Review*, **2012**, 4, 175-188	3.7	4
26	Drivers rationality in Evaluating Risks on Two-Lane Highways. *Journal of Transportation Safety and Security*, **2012**, 4, 67-82	1.7	4
25	Evolution of clusters in dynamic point patterns: with a case study of Ants' simulation. *International Journal of Geographical Information Science*, **2007**, 21, 777-797	4.1	4
24	Investment in Mobility by Car as an Explanatory Variable for Market Segmentation. *Journal of Public Transportation*, **2007**, 10, 17-32	26.8	4
23	A frequency based transit assignment model that considers online information and strict capacity constraints. *EURO Journal on Transportation and Logistics*, **2020**, 9, 100005	2.4	3
22	An infeasible start heuristic for the transit route network design problem. *Transportmetrica A: Transport Science*, **2020**, 16, 388-408	2.5	3
21	The relationship between travel speeds, infrastructure characteristics, and crashes on two-lane highways. *Journal of Transportation Safety and Security*, **2018**, 10, 545-571	1.7	3
20	Pattern Recognition and Classification of Fatal Traffic Accidents in Israel: A Neural Network Approach. *Journal of Transportation Safety and Security*, **2011**, 3, 304-323	1.7	3
19	Analysis of travel behavior in Arab communities in Israel: a comparison of household surveys. *Journal of Transport Geography*, **2011**, 19, 162-169	5.2	3
18	Data-driven choice set generation and estimation of route choice models. *Transportation Research Part C: Emerging Technologies*, **2020**, 121, 102832	8.4	3
17	Using the Artificial Neural Networks Methodology to Predict the Vertical Swelling Percentage of Expansive Clays. *Journal of Materials in Civil Engineering*, **2014**, 26, 06014007	3	2
16	Hybrid Compensatory Noncompensatory Choice Sets in Semicompensatory Models. *Transportation Research Record*, **2012**, 2322, 10-19	1.7	2
15	Investigation of Conflict Characteristics at Airway Intersections. *Journal of Transportation Engineering*, **1994**, 120, 843-859		2
14	Reducing Vehicle Pollutant Emissions in Urban Areas with Alternative Parking Policies **2015**, 445-460		1

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13	A latent class model with fuzzy segmentation and weighted variables. *Transportmetrica A: Transport Science*, **2014**, 10, 878-893	2.5	1
12	Modeling Passengers Preferences on a Short-Haul Domestic Airline with Rank-Ordered Data		1
11	Prediction of the Vertical Swelling Percentage of Expansive Clays Using a Two-Stage Artificial Neural Networks Methodology. *Journal of Testing and Evaluation*, **2014**, 42, 20130162	1	1
10	A Dynamic Tree Algorithm for Peer-to-Peer Ridesharing Matching. *Networks and Spatial Economics*,1	1.9	1
9	Flexible model structure for discrete-choice models. *Proceedings of the Institution of Civil Engineers: Transport*, **2012**, 165, 39-47	0.5	0
8	A variational autoencoder approach for choice set generation and implicit perception of alternatives in choice modeling. *Transportation Research Part B: Methodological*, **2022**, 158, 273-294	7.2	0
7	Properties of Dynamic Freeway Network Flexibility Model. *Transportation Research Record*, **2014**, 2466, 98-104	1.7	
6	A Model for Evaluating Conflict Characteristics at Multiple Airway Intersections. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **1997**, 30, 351-358		
5	Modular multi-dimensional tool for emergency evacuation including location-based social network data. *Journal of Location Based Services*,1-22	1.9	
4	Land use variables in trip generation models: The case of the light rail transit in Tel Aviv **2008**, 385-413		
3	The impact of road networks in urban distribution spatial **2017**, 939-946		
2	Multi-objective network design problem considering system time minimization and road safety maximization **2017**, 931-938		
1	Residential Location Choice Models **2021**, 531-536		