Avishai Avi Ceder

List of Publications by Year in Descending Order

159 papers	3,403 citations	30 h-index	51 g-index
163 ext. papers	3,991 ext. citations	4.3 avg, IF	6.05 L-index

#	Paper	IF	Citations
159	Path-oriented synchronized transit scheduling using time-dependent data. *Transportation Research Part C: Emerging Technologies*, **2022**, 136, 103505	8.4	0
158	Novel Coupling-Decoupling Strategy for Scheduling Autonomous Public Transport Vehicles in Over-crowded Corridors. *Applied Mathematical Modelling*, **2022**, 106, 299-299	4.5	0
157	Optimal operational strategies for single bus lines using network-based method. *International Journal of Sustainable Transportation*, **2021**, 15, 325-337	3.6	5
156	Methods for Designing Public Transport Networks **2021**, 625-637		
155	Grid-Based Anomaly Detection of Freight Vehicle Trajectory considering Local Temporal Window. *Journal of Advanced Transportation*, **2021**, 2021, 1-18	1.9	
154	. *IEEE Transactions on Intelligent Transportation Systems*, **2020**, 1-19	6.1	1
153	Optimal Operational Strategies for Multiple Bus Lines Considering Passengers Preferences. *Transportation Research Record*, **2020**, 2674, 572-586	1.7	5
152	Integrated optimization for feeder bus timetabling and procurement scheme with consideration of environmental impact. *Computers and Industrial Engineering*, **2020**, 145, 106501	6.4	9
151	Optimization of Public Transport Services to Minimize Passengers Waiting Times and Maximize Vehicles Occupancy Ratios. *Electronics (Switzerland)*, **2020**, 9, 360	2.6	4
150	Robust and optimized urban rail timetabling using a marshaling plan and skip-stop operation. *Transportmetrica A: Transport Science*, **2020**, 16, 1217-1249	2.5	8
149	Battery-electric transit vehicle scheduling with optimal number of stationary chargers. *Transportation Research Part C: Emerging Technologies*, **2020**, 114, 118-139	8.4	31
148	Urban mobility and public transport: future perspectives and review. *International Journal of Urban Sciences*, **2020**, 1-25	2.2	23
147	Route guidance ranking procedures with human perception consideration for personalized public transport service. *Transportation Research Part C: Emerging Technologies*, **2020**, 118, 102667	8.4	20
146	Using Deficit Function to Determine the Minimum Fleet Size of an Autonomous Modular Public Transit System. *Transportation Research Record*, **2020**, 2674, 532-541	1.7	7
145	Personalized public transport mobility service: a journey ranking approach for route guidance. *Transportation Research Procedia*, **2019**, 38, 935-955	2.4	3
144	Optimal synchronization and coordination of actual passenger-rail timetables. *Journal of Intelligent Transportation Systems: Technology, Planning, and Operations*, **2019**, 23, 231-249	3.2	16
143	Is it time to go for no-car zone policies? Braess Paradox Detection. *Transportation Research, Part A: Policy and Practice*, **2019**, 121, 251-264	3.7	4

142	Autonomous shuttle bus service timetabling and vehicle scheduling using skip-stop tactic. *Transportation Research Part C: Emerging Technologies*, **2019**, 102, 370-395	8.4	51
141	Vehicle Scheduling of Single-Line Bus Service Using Operational Strategies. *IEEE Transactions on Intelligent Transportation Systems*, **2019**, 20, 1149-1159	6.1	12
140	Path-based capacity-restrained dynamic traffic assignment algorithm. *Transportmetrica B*, **2019**, 7, 741-768	6.8	4
139	Real-time schedule adjustments for autonomous public transport vehicles. *Transportation Research Part C: Emerging Technologies*, **2019**, 109, 60-78	8.4	17
138	Adjustments of public transit operations planning process for the use of electric buses. *Journal of Intelligent Transportation Systems: Technology, Planning, and Operations*, **2019**, 23, 216-230	3.2	19
137	Integrated public transport timetable synchronization and vehicle scheduling with demand assignment: A bi-objective bi-level model using deficit function approach. *Transportation Research Part B: Methodological*, **2018**, 117, 935-955	7.2	22
136	MINIMIZING USER AND OPERATOR COSTS OF SINGLE LINE BUS SERVICE USING OPERATIONAL STRATEGIES. *Transport*, **2018**, 33, 993-1004	1.4	3
135	Optimal public-transport operational strategies to reduce cost and vehicle's emission. *PLoS ONE*, **2018**, 13, e0201138	3.7	12
134	Public transport service-quality elements based on real-time operational tactics. *Transportation*, **2017**, 44, 957-975	4	10
133	Environmental impacts of public transport systems using real-time control method. *Transportation Research, Part D: Transport and Environment*, **2017**, 51, 216-226	6.4	16
132	Deficit function related to public transport: 50 year retrospective, new developments, and prospects. *Transportation Research Part B: Methodological*, **2017**, 100, 1-19	7.2	22
131	Transit priority lanes in the congested road networks. *Public Transport*, **2017**, 9, 571-599	2.1	8
130	Modeling the interaction between buses, passengers and cars on a bus route using a multi-agent system. *Transportation Planning and Technology*, **2017**, 40, 592-610	1.6	15
129	Efficient design of freight train operation with double-hump yards. *Journal of the Operational Research Society*, **2017**, 68, 1600-1619	2	2
128	Integrated Optimization of Bus Line Fare and Operational Strategies Using Elastic Demand. *Journal of Advanced Transportation*, **2017**, 2017, 1-15	1.9	12
127	Integrated public transport timetable synchronization with vehicle scheduling. *Transportmetrica A: Transport Science*, **2017**, 13, 932-954	2.5	16
126	Integrated Public Transport Timetable Synchronization and Vehicle Scheduling with Demand Assignment: A Bi-objective Bi-level Model Using Deficit Function Approach. *Transportation Research Procedia*, **2017**, 23, 341-361	2.4	18
125	Graphical Human-Machine Interactive Approach for Integrated Bus Transit Scheduling: Lessons Gained From a Large Bus Company. *IEEE Transactions on Intelligent Transportation Systems*, **2017**, 18, 1023-1028	6.1	9

124   Real-Time Public Transport Operations: Library of Control Strategies. *Transportation Research Record*, **2017**, 2647, 26-32   1.7   9

123   User and Operator Perspectives in Public Transport Timetable Synchronization Design. *Transportation Research Record*, **2017**, 2667, 154-163   1.7   1

122   Fairness in optimizing bus-crew scheduling process. *PLoS ONE*, **2017**, 12, e0187623   3.7   6

121   On The Problem of Constructing Routes, Part I: Preface. *Transport and Telecommunication*, **2017**, 18, 231-233   1.2   2

120   A Note on Transit Coordination Using Integer-Ratio Headways. *IEEE Transactions on Intelligent Transportation Systems*, **2016**, 1-3   6.1   10

119   Determining Optimal Strategies for Single-Line Bus Operation by Means of Smartphone Demand Data. *Transportation Research Record*, **2016**, 2539, 130-139   1.7   7

118   Public transport user's perception and decision assessment using tactic-based guidelines. *Transport Policy*, **2016**, 49, 125-136   5.7   13

117   . *IEEE Transactions on Intelligent Transportation Systems*, **2016**, 17, 3220-3229   6.1   17

116   A method of examining the structure and topological properties of public-transport networks. *Physica A: Statistical Mechanics and Its Applications*, **2016**, 451, 373-387   3.3   21

115   Commuting by Customized Bus: A Comparative Analysis with Private Car and Conventional Public Transport in Two Cities. *Journal of Public Transportation*, **2016**, 19, 55-74   26.8   26

114   New Applications of ITS to Real-time Transit Operations **2016**, 19-79

113   A case study of Beijing bus crew scheduling: a variable neighborhood-based approach. *Journal of Advanced Transportation*, **2016**, 50, 434-445   1.9   10

112   Synchronization of Public Transport Timetabling with Multiple Vehicle Types. *Transportation Research Record*, **2016**, 2539, 84-93   1.7   18

111   Communication-Based Cooperative Control Strategy for Public Transport Transfer Synchronization. *Transportation Research Record*, **2016**, 2541, 27-37   1.7   7

110   Use of Real-Time Operational Tactics to Synchronize Transfers in Headway-Based Public Transport Service. *Transportation Research Record*, **2016**, 2539, 103-112   1.7   5

109   Users willingness to ride an integrated public-transport service: A literature review. *Transport Policy*, **2016**, 48, 183-195   5.7   62

108   The planning and analysis of a new group rapid transit system: the SkyCabs monobeam system in Auckland. *Transportation Planning and Technology*, **2015**, 38, 320-334   1.6

107   A Robust, Tactic-Based, Real-Time Framework for Public- Transport Transfer Synchronization. *Transportation Research Procedia*, **2015**, 9, 246-268   2.4   14

106	Applied analysis for improving rail-network operations. *Journal of Rail Transport Planning and Management*, **2015**, 5, 50-63	2.1	9
105	Improved reliability of public transportation using real-time transfer synchronization. *Transportation Research Part C: Emerging Technologies*, **2015**, 60, 525-539	8.4	17
104	A robust, tactic-based, real-time framework for public-transport transfer synchronization. *Transportation Research Part C: Emerging Technologies*, **2015**, 60, 105-123	8.4	26
103	Optimal Modification of Urban Bus Network Routes Using a Genetic Algorithm. *Journal of Transportation Engineering*, **2015**, 141, 04014081		11
102	Optimal Synchronized Transfers in Schedule-Based Public Transport Networks Using Online Operational Tactics. *Transportation Research Record*, **2015**, 2533, 78-90	1.7	11
101	Analysis of a new public-transport-service concept: Customized bus in China. *Transport Policy*, **2015**, 39, 63-76	5.7	94
100	A logit-based model for facility placement planning in supply chain management. *International Journal of Logistics Systems and Management*, **2015**, 20, 122	0.7	4
99	Optimization of bus stop placement for routes on uneven topography. *Transportation Research Part B: Methodological*, **2015**, 74, 40-61	7.2	28
98	The effects of travel time and cost savings on commuters decision to travel on public transport routes involving transfers. *Journal of Transport Geography*, **2015**, 43, 151-159	5.2	45
97	The effects of planned and unplanned transfers on public transport users' perception of transfer routes. *Transportation Planning and Technology*, **2014**, 37, 154-168	1.6	17
96	CBVC-B: A System for Synchronizing Public-transport Transfers Using Vehicle-to-Vehicle Communication. *Procedia, Social and Behavioral Sciences*, **2014**, 138, 241-250		3
95	Designing large-scale bus network with seasonal variations of demand. *Transportation Research Part C: Emerging Technologies*, **2014**, 48, 322-338	8.4	23
94	. *IEEE Transactions on Intelligent Transportation Systems*, **2014**, 15, 2014-2023	6.1	30
93	Detecting and improving public-transit connectivity with case studies of two world sport events. *Transport Policy*, **2014**, 33, 96-109	5.7	3
92	Hybrid Method for Bus Network Design with High Seasonal Demand Variation. *Journal of Transportation Engineering*, **2014**, 140, 04014015		16
91	Public transport vehicle scheduling featuring multiple vehicle types. *Transportation Research Part B: Methodological*, **2014**, 67, 129-143	7.2	61
90	Using connectivity for measuring equity in transit provision. *Journal of Transport Geography*, **2014**, 37, 82-92	5.2	89
89	Synchronizing Public Transport Transfers by Using Intervehicle Communication Scheme: Case Study. *Transportation Research Record*, **2014**, 2417, 78-91	1.7	23

88	Optimal Connected Urban Bus Network of Priority Lanes. *Transportation Research Record*, **2014**, 2418, 49-57	1.7	9
87	Improving Energy Efficiency of Public Transport Bus Services by Using Multiple Vehicle Types. *Transportation Research Record*, **2014**, 2415, 65-71	1.7	5
86	Integrated Approach Combining Ramp Metering and Variable Speed Limits to Improve Motorway Performance. *Transportation Research Record*, **2014**, 2470, 86-94	1.7	11
85	Transit Timetables Resulting in Even Maximum Load on Individual Vehicles. *IEEE Transactions on Intelligent Transportation Systems*, **2014**, 15, 2605-2614	6.1	13
84	Optimal combinations of selected tactics for public-transport transfer synchronization. *Transportation Research Part C: Emerging Technologies*, **2014**, 48, 491-504	8.4	33
83	A heuristic methodology to tackle the Braess Paradox detecting problem tailored for real road networks. *Transportmetrica A: Transport Science*, **2014**, 10, 437-456	2.5	13
82	Waiting for public transport services: Queueing analysis with balking and reneging behaviors of impatient passengers. *Transportation Research Part B: Methodological*, **2014**, 63, 53-76	7.2	23
81	Measuring Public-Transport Network Connectivity Using Google Transit with Comparison across Cities. *Journal of Public Transportation*, **2014**, 17, 76-92	26.8	5
80	A hybrid meta-heuristic algorithm for solving real-life transportation network design problems. *International Journal of Logistics Systems and Management*, **2013**, 16, 41	0.7	13
79	Modelling public-transport users behaviour at connection point. *Transport Policy*, **2013**, 27, 112-122	5.7	47
78	Approaching even-load and even-headway transit timetables using different bus sizes. *Public Transport*, **2013**, 5, 193-217	2.1	39
77	Improving urban public transport service using new timetabling strategies with different vehicle sizes. *International Journal of Urban Sciences*, **2013**, 17, 239-258	2.2	18
76	Transfer Synchronization of Public Transport Networks. *Transportation Research Record*, **2013**, 2350, 9-16	1.7	27
75	Public Transport Time-Tabling Based on Maximum-Load Points Using Multisize Vehicles. *Transportation Research Record*, **2013**, 2352, 104-113	1.7	6
74	A Psychological Investigation on Public-transport Users Intention to Use Routes with Transfers. *International Journal of Transportation*, **2013**, 1, 1-20		29
73	Definition of Planned and Unplanned Transfer of Public Transport Service and User Decisions to Use Routes with Transfers. *Journal of Public Transportation*, **2013**, 16, 1-20	26.8	26
72	Multiobjective Approach to Creating Bus Timetables with Multiple Vehicle Types. *Transportation Research Record*, **2012**, 2276, 56-62	1.7	31
71	Transit-network design methodology for actual-size road networks. *Transportation Research Part B: Methodological*, **2011**, 45, 1787-1804	7.2	117

70	Optimal Multi-Vehicle Type Transit Timetabling and Vehicle Scheduling. *Procedia, Social and Behavioral Sciences*, **2011**, 20, 19-30		46
69	Integrated smart feeder/shuttle transit service: simulation of new routing strategies. *Journal of Advanced Transportation*, **2011**, n/a-n/a	1.9	3
68	Public-transport vehicle scheduling with multi vehicle type. *Transportation Research Part C: Emerging Technologies*, **2011**, 19, 485-497	8.4	62
67	Analysis of Passenger-Ferry Routes Using Connectivity Measures. *Journal of Public Transportation*, **2011**, 14, 29-55	26.8	2
66	A New Architectural Design of Elevated Small Group Automated Rapid Transit. *Journal of Public Transportation*, **2011**, 14, 63-87	26.8	4
65	Public Transit Network Connectivity: Spatial-Based Performance Indicators. *Transportation Research Record*, **2010**, 2143, 1-8	1.7	26
64	Comparing Public Transport Connectivity Measures of Major New Zealand Cities. *Transportation Research Record*, **2010**, 2143, 24-33	1.7	5
63	Mass transit systems of Beijing: governance evolution and analysis. *Transportation*, **2010**, 37, 709-729	4	20
62	Optimal coordination of public-transit vehicles using operational tactics examined by simulation. *Transportation Research Part C: Emerging Technologies*, **2010**, 18, 879-895	8.4	86
61	Stepwise multi-criteria and multi-strategy design of public transit shuttles. *Journal of Multi-Criteria Decision Analysis*, **2009**, 16, 21-38	1.9	12
60	Measuring Public Transport Connectivity Performance Applied in Auckland, New Zealand. *Transportation Research Record*, **2009**, 2111, 139-147	1.7	20
59	Efficient Bus Operational Parking Model. *Transportation Research Record*, **2009**, 2111, 42-49	1.7	2
58	Multiagent Approach for Public Transit System Based on Flexible Routes. *Transportation Research Record*, **2008**, 2063, 89-96	1.7	9
57	Public Transit Simulation Model for Optimal Synchronized Transfers. *Transportation Research Record*, **2008**, 2063, 52-59	1.7	9
56	Improving Bus Passenger Transfers on Road Segments through Online Operational Tactics. *Transportation Research Record*, **2008**, 2072, 101-109	1.7	16
55	Analysis of maximum traffic flow and its breakdown on congested freeways. *Physica A: Statistical Mechanics and Its Applications*, **2008**, 387, 4349-4366	3.3	4
54	Improved Lower-Bound Fleet Size for Transit Schedules **2008**, 379-386		
53	Observing freeway ramp merging phenomena in congested traffic. *Journal of Advanced Transportation*, **2007**, 41, 145-170	1.9	40

52	Planning and Evaluation of Passenger Ferry Service in Hong Kong. *Transportation*, **2006**, 33, 133-152	4	6
51	Framework for Deployment Planning of Bus Rapid Transit Systems. *Transportation Research Record*, **2005**, 1903, 11-19	1.7	0
50	Estimation of Fleet Size for Variable Bus Schedules. *Transportation Research Record*, **2005**, 1903, 2-10	1.7	8
49	New Urban Public Transportation Systems: Initiatives, Effectiveness, and Challenges. *Journal of the Urban Planning and Development Division, ASCE*, **2004**, 130, 56-65	2.2	12
48	Freeway Ramp Merging Phenomena in Congested Traffic Using Simulation Combined with a Driving Simulator. *Computer-Aided Civil and Infrastructure Engineering*, **2004**, 19, 351-363	8.4	28
47	Developing control strategies for freeway merging points under congested traffic situations using modeling and a simulation approach. *Journal of Advanced Transportation*, **2003**, 37, 173-194	1.9	2
46	Design of Bus Routes: Methodology and the Santo Domingo Case. *Transportation Research Record*, **2002**, 1791, 35-43	1.7	3
45	Designing Public Transport Networks and Routes **2002**, 59-91		5
44	Urban Transit Scheduling: Framework, Review and Examples. *Journal of the Urban Planning and Development Division, ASCE*, **2002**, 128, 225-244	2.2	53
43	Optimal distance between two branches of uncontrolled split intersection. *Transportation Research, Part A: Policy and Practice*, **2002**, 36, 699-724	3.7	4
42	A Step Function for Improving Transit Operations Planning Using Fixed and Variable Scheduling **2002**, 1-21		5
41	A synthesis algorithm for an oil spill problem of complementary locations on networks. *Applied Mathematical Modelling*, **2001**, 25, 269-285	4.5	
40	Operational objective functions in designing public transport routes. *Journal of Advanced Transportation*, **2001**, 35, 125-144	1.9	30
39	Designing Synchronization into Bus Timetables. *Transportation Research Record*, **2001**, 1760, 28-33	1.7	24
38	Public Transport Scheduling. *Handbooks in Transport*, **2001**, 539-558		3
37	Bus Timetables with Even Passenger Loads as Opposed to Even Headways. *Transportation Research Record*, **2001**, 1760, 3-9	1.7	36
36	An applicatoin of an optimal traffic control during lane closure periods of a two-lane road. *Journal of Advanced Transportation*, **2000**, 34, 173-190	1.9	9
35	Transportation projects selection process using fuzzy sets theory. *Fuzzy Sets and Systems*, **2000**, 116, 35-47	3.7	41

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34	Timetable Synchronization for Buses. *Lecture Notes in Economics and Mathematical Systems*, **1999**, 245-258	0.4	11
33	User and Operator Perspectives in Transit Network Design. *Transportation Research Record*, **1998**, 1623, 3-7	1.7	59
32	Creation of Objective Functions for Transit Network Design. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **1997**, 30, 667-673		2
31	Multi-Objective Approach for Designing Transit Routes with Frequencies. *Transportation Analysis*, **1996**, 157-182		7
30	Transit Route Design Using Scheduling and Multiobjective Programming Techniques. *Lecture Notes in Economics and Mathematical Systems*, **1995**, 56-75	0.4	22
29	Minimum Cost Vehicle Scheduling with Different Types of Transit Vehicles. *Lecture Notes in Economics and Mathematical Systems*, **1995**, 102-114	0.4	0
28	Scheduling Considerations in Designing Transit Routes at the Network Level. *Lecture Notes in Economics and Mathematical Systems*, **1992**, 113-136	0.4	8
27	A procedure to adjust transit trip departure times through minimizing the maximum headway. *Computers and Operations Research*, **1991**, 18, 417-431	4.6	24
26	Transit scheduling. *Journal of Advanced Transportation*, **1991**, 25, 137-160	1.9	10
25	Signalized intersections with variable flow rates: II A model for delay estimation. *Journal of Advanced Transportation*, **1989**, 23, 53-66	1.9	4
24	Signalized intersections with variable flow rates: I analysis and simulation. *Journal of Advanced Transportation*, **1988**, 22, 154-168	1.9	
23	OPTIBUS: A Scheduling Package **1988**, 212-225		4
22	Designing Transit Short-Turn Trips with the Elimination of Imbalanced Loads **1988**, 288-303		4
21	Land requirements for public transport facilities in urban areas: A statistical approach. *Journal of Advanced Transportation*, **1987**, 21, 95-115	1.9	0
20	Methods for creating bus timetables. *Transportation Research Part A: Policy and Practice*, **1987**, 21, 59-83		61
19	Optimal Response to Oil Spills: The Strategic Decision Case. *Operations Research*, **1986**, 34, 203-217	2.3	44
18	Bus network design. *Transportation Research Part B: Methodological*, **1986**, 20, 331-344	7.2	372
17	Passenger Waiting Strategies for Overlapping Bus Routes. *Transportation Science*, **1984**, 18, 207-230	4.4	73