

# Paul Schonfeld

## List of Publications by Year in descending order

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124  
papers

3,521  
citations

117571

34  
h-index

175177

52  
g-index

124  
all docs

124  
docs citations

124  
times ranked

1432  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mountain railway alignment optimization integrating layouts of large-scale auxiliary construction projects. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2023, 38, 433-453.	6.3	8
2	Modelling and optimization of constrained alignments for existing railway reconstruction. <i>International Journal of Rail Transportation</i> , 2023, 11, 428-447.	1.8	4
3	A deep reinforcement learning approach to mountain railway alignment optimization. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2022, 37, 73-92.	6.3	46
4	Simultaneous optimization of 3D alignments and station locations for dedicated high-speed railways. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2022, 37, 405-426.	6.3	24
5	Optimization of grade-separated road and railway crossings based on a distance transform algorithm. <i>Engineering Optimization</i> , 2022, 54, 232-251.	1.5	13
6	Robust Optimization Method for Mountain Railway Alignments Considering Preference Uncertainty for Costs and Seismic Risks. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2022, 8, .	1.1	10
7	Data-Driven Robust Resource Allocation with Monotonic Cost Functions. <i>Operations Research</i> , 2022, 70, 73-94.	1.2	3
8	Optimized two-directional phased development of a rail transit line. <i>Transportation Research Part B: Methodological</i> , 2022, 155, 424-447.	2.8	1
9	Optimal service zones and frequencies for flexible-route freight deliveries. <i>Transportation Research, Part A: Policy and Practice</i> , 2022, 159, 182-199.	2.0	0
10	Bi-objective mountain railway alignment optimization incorporating seismic risk assessment. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2021, 36, 143-163.	6.3	27
11	Profit Maximization Model with Fare Structures and Subsidy Constraints for Urban Rail Transit. <i>Journal of Advanced Transportation</i> , 2021, 2021, 1-14.	0.9	1
12	Railway Alignment Optimization in Mountainous Regions Considering Spatial Geological Hazards: A Sustainable Safety Perspective. <i>Sustainability</i> , 2021, 13, 1661.	1.6	23
13	Time-dependent transit fare optimization with elastic and spatially distributed demand. <i>Transportation Research, Part A: Policy and Practice</i> , 2021, 148, 353-378.	2.0	4
14	GIS-based multi-criteria railway design with spatial environmental considerations. <i>Applied Geography</i> , 2021, 131, 102449.	1.7	21
15	Resilient Schedule Coordination for a Bus Transit Corridor. <i>Journal of Advanced Transportation</i> , 2020, 2020, 1-12.	0.9	3
16	Parallel Three-Dimensional Distance Transform for Railway Alignment Optimization Using OpenMP. <i>Journal of Transportation Engineering Part A: Systems</i> , 2020, 146, .	0.8	26
17	Mountain railway alignment optimization considering geological impacts: A cost-hazard bi-objective model. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020, 35, 1365-1386.	6.3	32
18	Multi-objective railway alignment optimization considering costs and environmental impacts. <i>Applied Soft Computing Journal</i> , 2020, 89, 106105.	4.1	46

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19	A Method for Automatically Recreating the Horizontal Alignment Geometry of Existing Railways. Computer-Aided Civil and Infrastructure Engineering, 2019, 34, 71-94.	6.3	53
20	Selecting and scheduling interrelated road projects with uncertain demand. Transportmetrica A: Transport Science, 2019, 15, 1712-1733.	1.3	11
21	Maximum Gradient Decision-Making for Railways Based on Convolutional Neural Network. Journal of Transportation Engineering Part A: Systems, 2019, 145, .	0.8	8
22	Development of rail transit network over multiple time periods. Transportation Research, Part A: Policy and Practice, 2019, 121, 235-250.	2.0	5
23	A three-dimensional distance transform for optimizing constrained mountain railway alignments. Computer-Aided Civil and Infrastructure Engineering, 2019, 34, 972-990.	6.3	51
24	Mountain railway alignment optimization using stepwise & hybrid particle swarm optimization incorporating genetic operators. Applied Soft Computing Journal, 2019, 78, 41-57.	4.1	51
25	Optimal zone sizes and headways for flexible-route bus services. Transportation Research Part B: Methodological, 2019, 130, 67-81.	2.8	29
26	Optimal extension of rail transit lines. International Journal of Sustainable Transportation, 2018, 12, 753-769.	2.1	9
27	Stochastic dynamic switching in fixed and flexible transit services as market entry-exit real options. Transportation Research Part C: Emerging Technologies, 2018, 94, 288-306.	3.9	29
28	How time-inconsistent preferences affect investment timing for rail transit. Transportation Research Part B: Methodological, 2018, 118, 172-192.	2.8	10
29	Switching service types for multi-region bus systems. Transportation Planning and Technology, 2018, 41, 617-643.	0.9	6
30	Evolution of public transit modes in a commuter corridor. Transportation Research Part C: Emerging Technologies, 2017, 75, 84-102.	3.9	18
31	Mountain Railway Alignment Optimization with Bidirectional Distance Transform and Genetic Algorithm. Computer-Aided Civil and Infrastructure Engineering, 2017, 32, 691-709.	6.3	88
32	Stochastic dynamic switching in fixed and flexible transit services as market entry-exit real options. Transportation Research Procedia, 2017, 23, 380-399.	0.8	19
33	Evasive flow capture: A multi-period stochastic facility location problem with independent demand. European Journal of Operational Research, 2017, 257, 687-703.	3.5	17
34	A hybrid heuristic technique for optimal coordination in intermodal logistics scheduling. International Journal of Shipping and Transport Logistics, 2017, 9, 475.	0.2	6
35	Welfare maximization for bus transit systems with timed transfers and financial constraints. Journal of Advanced Transportation, 2016, 50, 421-433.	0.9	11
36	Statistical and machine learning approach for planning dial-a-ride systems. Transportation Research, Part A: Policy and Practice, 2016, 89, 41-55.	2.0	10

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37	Schedule Coordination, Delay Propagation, and Disruption Resilience in Intermodal Logistics Networks. <i>Transportation Research Record</i> , 2016, 2548, 16-23.	1.0	11
38	Implications of the cost of public funds in public transit subsidization and regulation. <i>Transportation Research, Part A: Policy and Practice</i> , 2016, 91, 236-250.	2.0	13
39	Concurrent Optimization of Rail Transit Alignments and Station Locations. <i>Urban Rail Transit</i> , 2016, 2, 1-15.	0.9	53
40	Methodology for optimizing constrained 3-dimensional railway alignments in mountainous terrain. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 68, 549-565.	3.9	68
41	Holding decisions for correlated vehicle arrivals at intermodal freight transfer terminals. <i>Transportation Research Part B: Methodological</i> , 2016, 90, 218-240.	2.8	18
42	A dispatching decision support system for countering delay propagation in intermodal logistics networks. <i>Transportation Planning and Technology</i> , 2016, 39, 254-268.	0.9	5
43	Prioritizing Interrelated Road Projects Using Metaheuristics. <i>Journal of Infrastructure Systems</i> , 2016, 22, .	1.0	17
44	Taxis as a Recourse Option for Ridesharing Services. <i>Transportation Research Record</i> , 2016, 2563, 86-97.	1.0	3
45	Simulation-Based Scheduling of Waterway Projects Using a Parallel Genetic Algorithm. , 2016, , 1071-1084.		0
46	A Method for Optimizing the Phased Development of Rail Transit Lines. <i>Urban Rail Transit</i> , 2015, 1, 227-237.	0.9	7
47	Evasive flow capture: Optimal location of weigh-in-motion systems, tollbooths, and security checkpoints. <i>Networks</i> , 2015, 65, 22-42.	1.6	16
48	Optimizing dial-a-ride services in Maryland: Benefits of computerized routing and scheduling. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 55, 156-165.	3.9	53
49	Hybrid simulated annealing and genetic algorithm for optimizing arterial signal timings under oversaturated traffic conditions. <i>Journal of Advanced Transportation</i> , 2015, 49, 153-170.	0.9	43
50	Analyzing passenger train arrival delays with support vector regression. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 56, 251-262.	3.9	142
51	Stochastic capacity expansion models for airport facilities. <i>Transportation Research Part B: Methodological</i> , 2015, 80, 1-18.	2.8	21
52	Maximizing net benefits for conventional and flexible bus services. <i>Transportation Research, Part A: Policy and Practice</i> , 2015, 80, 116-133.	2.0	20
53	Simulation-Based Scheduling of Waterway Projects Using a Parallel Genetic Algorithm. , 2015, , 334-347.		2
54	Simulation-Based Scheduling of Waterway Projects Using a Parallel Genetic Algorithm. <i>International Journal of Operations Research and Information Systems</i> , 2015, 6, 49-63.	1.0	7

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55	Integration of conventional and flexible bus services with timed transfers. Transportation Research Part B: Methodological, 2014, 68, 76-97.	2.8	82
56	Multi-objective highway alignment optimization incorporating preference information. Transportation Research Part C: Emerging Technologies, 2014, 40, 36-48.	3.9	64
57	Uncertainty Analysis for Flexible Airport Gate Development. Procedia, Social and Behavioral Sciences, 2013, 96, 2953-2961.	0.5	7
58	Integrating bus services with mixed fleets. Transportation Research Part B: Methodological, 2013, 55, 227-244.	2.8	56
59	Scheduling for a Single-Terminal Intermodal System Recovery with Poisson Arrivals. Strojnicki Vestnik/Journal of Mechanical Engineering, 2013, 9, 564-572.	0.6	0
60	Comparison of Vertical Alignments for Rail Transit. Journal of Transportation Engineering, 2013, 139, 230-238.	0.9	24
61	Simulation-Based Rail Transit Optimization Model. Transportation Research Record, 2013, 2374, 143-153.	1.0	7
62	Conventional, Flexible, and Variable-Type Bus Services. Journal of Transportation Engineering, 2012, 138, 263-273.	0.9	41
63	Simulation-Based Scheduling of Mutually Exclusive Projects with Precedence and Regional Budget Constraints. Transportation Research Record, 2012, 2273, 1-9.	1.0	7
64	Optimization of Rail Transit Alignments considering Vehicle Dynamics. Transportation Research Record, 2012, 2275, 77-87.	1.0	24
65	A Hybrid Heuristic Technique for Optimizing Intermodal Logistics Timed Transfer Systems. Procedia, Social and Behavioral Sciences, 2012, 48, 2566-2576.	0.5	6
66	Applicability of highway alignment optimization models. Transportation Research Part C: Emerging Technologies, 2012, 21, 257-286.	3.9	114
67	Alleviating Schedule Disruptions at Intermodal Freight Transfer Terminals. Transportation Research Record, 2011, 2238, 32-43.	1.0	5
68	Scheduling under Uncertainty for Single-Hub Intermodal Freight System. Transportation Research Record, 2011, 2238, 24-31.	1.0	1
69	Online Rejected-Reinsertion Heuristics for Dynamic Multivehicle Dial-a-Ride Problem. Transportation Research Record, 2011, 2218, 59-67.	1.0	21
70	Bilevel Highway Route Optimization. Transportation Research Record, 2010, 2197, 107-117.	1.0	21
71	Modeling and Performance Assessment of Intermodal Transfers at Cargo Terminals. Transportation Research Record, 2010, 2162, 53-62.	1.0	13
72	Simulation-Based Network Maintenance Planning and Scheduling. Transportation Research Record, 2009, 2100, 94-102.	1.0	3

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73	A Hybrid Methodology for Freeway Work-Zone Optimization With Time Constraints. Public Works Management Policy, 2009, 13, 253-264.	0.7	10
74	Prescreening and Repairing in a Genetic Algorithm for Highway Alignment Optimization. Computer-Aided Civil and Infrastructure Engineering, 2009, 24, 109-119.	6.3	92
75	Subsidies and welfare maximization tradeoffs in bus transit systems. Annals of Regional Science, 2008, 42, 643-660.	1.0	25
76	An evolutionary path planning algorithm for military applications. , 2008, , .		1
77	Scheduling of Waterway Projects with Complex Interrelations. Transportation Research Record, 2008, 2062, 59-65.	1.0	8
78	Optimizing Rail Transit Routes with Genetic Algorithms and Geographic Information System. Journal of the Urban Planning and Development Division, ASCE, 2007, 133, 161-171.	0.8	62
79	Highway Alignment Optimization Incorporating Bridges and Tunnels. Journal of Transportation Engineering, 2007, 133, 71-81.	0.9	36
80	Demand Elasticity and Benefit Measurement in a Waterway Simulation Model. Transportation Research Record, 2007, 2033, 53-61.	1.0	6
81	Island Models for Stochastic Problem of Transportation Project Selection and Scheduling. Transportation Research Record, 2007, 2039, 16-23.	1.0	16
82	A rejected-reinsertion heuristic for the static Dial-A-Ride Problem. Transportation Research Part B: Methodological, 2007, 41, 736-755.	2.8	36
83	Highway alignment optimization through feasible gates. Journal of Advanced Transportation, 2007, 41, 115-144.	0.9	27
84	Dispatching control at transfer stations in multi-hub transit networks. Journal of Advanced Transportation, 2007, 41, 217-243.	0.9	17
85	Selection and Scheduling of Interdependent Transportation Projects with Island Models. Transportation Research Record, 2006, 1981, 133-141.	1.0	8
86	Work Zone Optimization for Two-Lane Highway Resurfacing Projects with an Alternate Route. Transportation Research Record, 2005, 1911, 51-66.	1.0	9
87	Schedule Coordination in a Multiple Hub Transit Network. Journal of the Urban Planning and Development Division, ASCE, 2005, 131, 112-124.	0.8	63
88	Closure to Trade-offs between Initial and Maintenance Costs of Highways in Cross-Slopes by Manoj K. Jha and Paul Schonfeld. Journal of Infrastructure Systems, 2005, 11, 152-152.	1.0	1
89	Work Zone Lengths for a Four-Lane Road with an Alternate Route. Journal of Transportation Engineering, 2005, 131, 780-789.	0.9	9
90	Scheduling Interdependent Waterway Projects through Simulation and Genetic Optimization. Journal of Waterway, Port, Coastal and Ocean Engineering, 2005, 131, 89-97.	0.5	40

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91	Lagrangian Relaxation Heuristic for Selecting Interdependent Transportation Projects Under Cost Uncertainty. <i>Transportation Research Record</i> , 2005, 1931, 74-80.	1.0	4
92	Intersection Construction Cost Functions for Alignment Optimization. <i>Journal of Transportation Engineering</i> , 2004, 130, 194-203.	0.9	22
93	Work Zone Optimization for Two-Lane Highway Maintenance Projects. <i>Transportation Research Record</i> , 2004, 1877, 95-105.	1.0	9
94	Intersection Modeling for Highway Alignment Optimization. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2004, 19, 119-129.	6.3	29
95	A highway alignment optimization model using geographic information systems. <i>Transportation Research, Part A: Policy and Practice</i> , 2004, 38, 455-481.	2.0	90
96	An evolutionary model for simultaneously optimizing three-dimensional highway alignments. <i>Transportation Research Part B: Methodological</i> , 2003, 37, 107-128.	2.8	148
97	Trade-offs Between Initial and Maintenance Costs of Highways in Cross-Slopes. <i>Journal of Infrastructure Systems</i> , 2003, 9, 16-25.	1.0	14
98	Optimizing Work Zones for Two-Lane Highway Maintenance Projects. <i>Journal of Transportation Engineering</i> , 2002, 128, 145-155.	0.9	49
99	Estimating Highway Earthwork Cross Sections by Using Vector and Parametric Representation. <i>Transportation Research Record</i> , 2001, 1772, 48-54.	1.0	5
100	Using GIS, Genetic Algorithms, and Visualization in Highway Development. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2001, 16, 399-414.	6.3	60
101	Genetic Algorithm for Selecting and Scheduling Interdependent Projects. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2001, 127, 45-52.	0.5	24
102	Optimal Work Zone Lengths for Four-Lane Highways. <i>Journal of Transportation Engineering</i> , 2001, 127, 124-131.	0.9	55
103	Efficiency versus Fairness in Priority Control: Waterway Lock Case. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2001, 127, 82-88.	0.5	20
104	Control Alternatives at a Waterway Lock. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2001, 127, 89-96.	0.5	37
105	Geographic Information System-Based Analysis of Right-of-Way Cost for Highway Optimization. <i>Transportation Research Record</i> , 2000, 1719, 241-249.	1.0	35
106	Preliminary Highway Design with Genetic Algorithms and Geographic Information Systems. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2000, 15, 261-271.	6.3	106
107	Integrating Genetic Algorithms and Geographic Information System to Optimize Highway Alignments. <i>Transportation Research Record</i> , 2000, 1719, 233-240.	1.0	54
108	Effects of Speed Control on Tow Travel Costs. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 1999, 125, 203-206.	0.5	12

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109	Optimal Work Zone Lengths for Two-Lane Highways. Journal of Transportation Engineering, 1999, 125, 21-29.	0.9	46
110	Cost Functions for Optimizing Highway Alignments. Transportation Research Record, 1999, 1659, 58-67.	1.0	33
111	Queuing network analysis for waterways with artificial neural networks. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 1999, 13, 365-375.	0.7	12
112	Joint optimization of a rail transit line and its feeder bus system. Journal of Advanced Transportation, 1998, 32, 253-284.	0.9	128
113	Metamodels for estimating waterway delays through series of queues. Transportation Research Part B: Methodological, 1998, 32, 1-19.	2.8	61
114	Integrated Control for Series of Waterway Locks. Journal of Waterway, Port, Coastal and Ocean Engineering, 1998, 124, 199-206.	0.5	21
115	Optimization Through Simulation of Waterway Transportation Investments. Transportation Research Record, 1998, 1620, 11-16.	1.0	30
116	Optimization of Grid Transit System in Heterogeneous Urban Environment. Journal of Transportation Engineering, 1997, 123, 28-35.	0.9	73
117	Effects of Tow Sequencing on Capacity and Delay at a Waterway Lock. Journal of Waterway, Port, Coastal and Ocean Engineering, 1996, 122, 16-26.	0.5	10
118	Approximating Delays at Interdependent Locks. Journal of Waterway, Port, Coastal and Ocean Engineering, 1995, 121, 300-307.	0.5	26
119	Optimal slack time for timed transfers at a transit terminal. Journal of Advanced Transportation, 1991, 25, 281-308.	0.9	69
120	Branched Transit Services: An Analysis. Journal of Transportation Engineering, 1984, 110, 112-128.	0.9	24
121	Optimization of Zonal Transit Service. Journal of Transportation Engineering, 1983, 109, 257-272.	0.9	24
122	Implementation Sequence Optimization for Dedicated Bus Lane Projects. Transportation Research Record, 0, , 036119812110148.	1.0	0
123	Selection and Scheduling of Interdependent Transportation Projects with Island Models. , 0, .		7
124	Optimized Zone Sizes and Headways for Flexible-Route Bus Services – A Two Zone Case. KSCE Journal of Civil Engineering, 0, , .	0.9	0