

Harvey J Miller

List of Publications by Year in descending order

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Version: 2024-02-01

124
papers

6,472
citations

87723

38
h-index

74018

75
g-index

131
all docs

131
docs citations

131
times ranked

4502
citing authors

#	ARTICLE	IF	CITATIONS
1	Lower Volumes, Higher Speeds: Changes to Crash Type, Timing, and Severity on Urban Roads from COVID-19 Stay-at-Home Policies. <i>Transportation Research Record</i> , 2023, 2677, 15-27.	1.0	19
2	Realizable accessibility: evaluating the reliability of public transit accessibility using high-resolution real-time data. <i>Journal of Geographical Systems</i> , 2023, 25, 429-451.	1.9	8
3	What Is Essential Travel? Socioeconomic Differences in Travel Demand in Columbus, Ohio, during the COVID-19 Lockdown. <i>Annals of the American Association of Geographers</i> , 2022, 112, 1023-1046.	1.5	12
4	Impacts of bus rapid transit (BRT) on residential property values: A comparative analysis of 11 US BRT systems. <i>Journal of Transport Geography</i> , 2022, 100, 103324.	2.3	6
5	Understanding the role of urban social and physical environment in opioid overdose events using found geospatial data. <i>Health and Place</i> , 2022, 75, 102792.	1.5	12
6	Measuring risk of missing transfers in public transit systems using high-resolution schedule and real-time bus location data. <i>Urban Studies</i> , 2021, 58, 3140-3156.	2.2	7
7	The Role of Distance-Dependent Versus Localized Amenities in Polarizing Urban Spatial Structure: A Spatio-Temporal Analysis of Residential Location Value in Columbus, Ohio, 2000-2015. <i>Geographical Analysis</i> , 2021, 53, 283-306.	1.9	10
8	Who Counts? Gender, Gatekeeping, and Quantitative Human Geography. <i>Professional Geographer</i> , 2021, 73, 48-61.	1.0	15
9	Activity-Based Analysis. , 2021, , 187-207.		7
10	Special Issue on New Mobility Technologies and Cities. <i>Journal of Planning Literature</i> , 2021, 36, 3-4.	2.2	1
11	Opioid Treatment Deserts: Concept development and application in a US Midwestern urban county. <i>PLoS ONE</i> , 2021, 16, e0250324.	1.1	18
12	COVID-19 exacerbates unequal food access. <i>Applied Geography</i> , 2021, 134, 102517.	1.7	19
13	Cultivating Urban Big Data. <i>Urban Book Series</i> , 2021, , 547-565.	0.3	2
14	Geographic information science III: GIScience, fast and slow - Why faster geographic information is not always smarter. <i>Progress in Human Geography</i> , 2020, 44, 129-138.	3.3	9
15	Assessing public transit performance using real-time data: spatiotemporal patterns of bus operation delays in Columbus, Ohio, USA. <i>International Journal of Geographical Information Science</i> , 2020, 34, 367-392.	2.2	22
16	Network analysis of intra-hospital transfers and hospital onset clostridium difficile infection. <i>Health Information and Libraries Journal</i> , 2020, 37, 26-34.	1.3	9
17	Measuring the structural similarity of network time prisms using temporal signatures with graph indices. <i>Transactions in GIS</i> , 2020, 24, 3-26.	1.0	4
18	Does real-time transit information reduce waiting time? An empirical analysis. <i>Transportation Research, Part A: Policy and Practice</i> , 2020, 141, 167-179.	2.0	2

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19	Robust accessibility: Measuring accessibility based on travelers' heterogeneous strategies for managing travel time uncertainty. <i>Journal of Transport Geography</i> , 2020, 86, 102747.	2.3	30
20	311 service requests as indicators of neighborhood distress and opioid use disorder. <i>Scientific Reports</i> , 2020, 10, 19579.	1.6	15
21	The impacts of COVID-19 pandemic on public transit demand in the United States. <i>PLoS ONE</i> , 2020, 15, e0242476.	1.1	193
22	Movement analytics for sustainable mobility. <i>Journal of Spatial Information Science</i> , 2020, , .	1.1	2
23	The impacts of COVID-19 pandemic on public transit demand in the United States. , 2020, 15, e0242476.		0
24	The impacts of COVID-19 pandemic on public transit demand in the United States. , 2020, 15, e0242476.		0
25	The impacts of COVID-19 pandemic on public transit demand in the United States. , 2020, 15, e0242476.		0
26	The impacts of COVID-19 pandemic on public transit demand in the United States. , 2020, 15, e0242476.		0
27	Measuring the Geometric and Semantic Similarity of Space-Time Prisms Using Temporal Signatures. <i>Annals of the American Association of Geographers</i> , 2019, 109, 730-753.	1.5	12
28	Analyzing collective accessibility using average space-time prisms. <i>Transportation Research, Part D: Transport and Environment</i> , 2019, 69, 250-264.	3.2	37
29	Towards an integrated science of movement: converging research on animal movement ecology and human mobility science. <i>International Journal of Geographical Information Science</i> , 2019, 33, 855-876.	2.2	62
30	Accessibility with time and resource constraints: Computing hyper-prisms for sustainable transportation planning. <i>Computers, Environment and Urban Systems</i> , 2019, 73, 171-183.	3.3	19
31	Accessibility planning in American metropolitan areas: Are we there yet?. <i>Urban Studies</i> , 2019, 56, 167-192.	2.2	35
32	Activity-Based Analysis. , 2019, , 1-21.		0
33	Measuring the impacts of new public transit services on space-time accessibility: An analysis of transit system redesign and new bus rapid transit in Columbus, Ohio, USA. <i>Applied Geography</i> , 2018, 93, 47-63.	1.7	83
34	Street use and design: daily rhythms on four streets that differ in rated walkability. <i>Journal of Urban Design</i> , 2018, 23, 603-619.	0.6	7
35	Geographic information science II: Mesogeography. <i>Progress in Human Geography</i> , 2018, 42, 600-609.	3.3	12
36	Geographic regions for assessing built environmental correlates with walking trips: A comparison using different metrics and model designs. <i>Health and Place</i> , 2017, 45, 1-9.	1.5	19

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37	Geographic information science I. Progress in Human Geography, 2017, 41, 489-500.	3.3	10
38	Green accessibility: Estimating the environmental costs of network-time prisms for sustainable transportation planning. Journal of Transport Geography, 2017, 64, 109-119.	2.3	17
39	Kinetic prisms: incorporating acceleration limits into space-time prisms. International Journal of Geographical Information Science, 2017, 31, 2164-2194.	2.2	18
40	Analyzing walking route choice through built environments using random forests and discrete choice techniques. Environment and Planning B: Urban Analytics and City Science, 2017, 44, 1145-1167.	1.0	21
41	Spatial Data Analytics. , 2017, , 149-157.		1
42	Time Geography. , 2017, , 2235-2242.		1
43	Assessing built environment walkability using activity-space summary measures. Journal of Transport and Land Use, 2016, 9, 187-207.	0.7	43
44	Measuring Space-Time Prism Similarity Through Temporal Profile Curves. Lecture Notes in Geoinformation and Cartography, 2016, , 51-66.	0.5	4
45	Changes in bicycling over time associated with a new bike lane: Relations with kilocalories energy expenditure and body mass index. Journal of Transport and Health, 2016, 3, 357-365.	1.1	19
46	Modeling Visit Probabilities within Network-Time Prisms Using Markov Techniques. Geographical Analysis, 2016, 48, 18-42.	1.9	23
47	A Complete Street Intervention for Walking to Transit, Nontransit Walking, and Bicycling: A Quasi-Experimental Demonstration of Increased Use. Journal of Physical Activity and Health, 2016, 13, 1210-1219.	1.0	34
48	Big Data for Healthy Cities: Using Location-Aware Technologies, Open Data and 3D Urban Models to Design Healthier Built Environments. Built Environment, 2016, 42, 441-456.	0.4	23
49	Environmental, behavioral, and psychological predictors of transit ridership: Evidence from a community intervention. Journal of Environmental Psychology, 2016, 46, 188-196.	2.3	19
50	Estimating the most likely space-time paths, dwell times and path uncertainties from vehicle trajectory data: A time geographic method. Transportation Research Part C: Emerging Technologies, 2016, 66, 176-194.	3.9	46
51	Evaluating the attractiveness of a new light rail extension: Testing simple change and displacement change hypotheses. Transport Policy, 2016, 45, 15-23.	3.4	17
52	Time Geography. , 2016, , 1-8.		0
53	Transit Use, Physical Activity, and Body Mass Index Changes: Objective Measures Associated With Complete Street Light-Rail Construction. American Journal of Public Health, 2015, 105, 1468-1474.	1.5	80
54	Measuring segregation using patterns of daily travel behavior: A social interaction based model of exposure. Journal of Transport Geography, 2015, 49, 26-38.	2.3	83

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55	Geographic Information Systems for Transportation in the 21st Century. <i>Geography Compass</i> , 2015, 9, 180-189.	1.5	29
56	Transportation network design for maximizing space-time accessibility. <i>Transportation Research Part B: Methodological</i> , 2015, 81, 555-576.	2.8	125
57	Public transit generates new physical activity: Evidence from individual GPS and accelerometer data before and after light rail construction in a neighborhood of Salt Lake City, Utah, USA. <i>Health and Place</i> , 2015, 36, 8-17.	1.5	64
58	Data-driven geography. <i>Geo Journal</i> , 2015, 80, 449-461.	1.7	259
59	Beyond the Boundary: New Insights from Inside the Space-Time Prism. , 2015, , 189-209.		0
60	Location, Absolute and Relative. , 2015, , 284-286.		0
61	From the Guest Editors: Mobility, Communication, and Urban Space. <i>Journal of Urban Technology</i> , 2014, 21, 1-7.	2.5	7
62	Adding maps (GPS) to accelerometry data to improve study participants' recall of physical activity: a methodological advance in physical activity research. <i>British Journal of Sports Medicine</i> , 2014, 48, 1054-1058.	3.1	19
63	Simulating visit probability distributions within planar space-time prisms. <i>International Journal of Geographical Information Science</i> , 2014, 28, 104-125.	2.2	56
64	Detecting and Analyzing Mobility Hotspots using Surface Networks. <i>Transactions in GIS</i> , 2014, 18, 911-935.	1.0	41
65	Physical activity mediates the relationship between perceived crime safety and obesity. <i>Preventive Medicine</i> , 2014, 66, 140-144.	1.6	46
66	Decentralized and coordinate-free computation of critical points and surface networks in a discretized scalar field. <i>International Journal of Geographical Information Science</i> , 2014, 28, 1-21.	2.2	27
67	Exploratory Visualization of Collective Mobile Objects Data Using Temporal Granularity and Spatial Similarity. , 2014, , 127-154.		3
68	Activity-Based Analysis. , 2014, , 705-724.		6
69	The Social Interaction Potential of Metropolitan Regions: A Time-Geographic Measurement Approach Using Joint Accessibility. <i>Annals of the American Association of Geographers</i> , 2013, 103, 483-504.	3.0	98
70	Developing context-sensitive livability indicators for transportation planning: a measurement framework. <i>Journal of Transport Geography</i> , 2013, 26, 51-64.	2.3	83
71	Do air quality alerts reduce traffic? An analysis of traffic data from the Salt Lake City metropolitan area, Utah, USA. <i>Transport Policy</i> , 2013, 30, 173-185.	3.4	30
72	Beyond sharing: cultivating cooperative transportation systems through geographic information science. <i>Journal of Transport Geography</i> , 2013, 31, 296-308.	2.3	51

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73	Exploring traffic flow databases using space-time plots and data cubes. <i>Transportation</i> , 2012, 39, 215-234.	2.1	28
74	Analytical methods for error propagation in planar space-time prisms. <i>Journal of Geographical Systems</i> , 2011, 13, 327-354.	1.9	21
75	Kinetic space-time prisms. , 2011, , .		7
76	Dealing with Timing and Synchronization in Opportunities for Joint Activity Participation. <i>Geographical Analysis</i> , 2010, 42, 245-266.	1.9	26
77	THE DATA AVALANCHE IS HERE. SHOULDNT WE BE DIGGING?. <i>Journal of Regional Science</i> , 2010, 50, 181-201	2.1	164
78	Anchor uncertainty and space-time prisms on road networks. <i>International Journal of Geographical Information Science</i> , 2010, 24, 1223-1248.	2.2	76
79	A Field-Based Theory for Time Geography. <i>Annals of the American Association of Geographers</i> , 2009, 99, 49-75.	3.0	124
80	Geographic Data Mining and Knowledge Discovery An Overview. <i>Chapman & Hall/CRC Data Mining and Knowledge Discovery Series</i> , 2009, , 1-26.	0.2	11
81	Time Geography. , 2008, , 1151-1156.		10
82	Mobile Objects Databases. , 2008, , 670-671.		1
83	Time-space transformations of geographic space for exploring, analyzing and visualizing transportation systems. <i>Journal of Transport Geography</i> , 2007, 15, 2-17.	2.3	62
84	Place-Based versus People-Based Geographic Information Science. <i>Geography Compass</i> , 2007, 1, 503-535.	1.5	147
85	Societies and cities in the age of instant access. <i>Geospatial Technology and the Role of Location in Science</i> , 2007, , 3-28.	0.2	6
86	U-Access: a web-based system for routing pedestrians of differing abilities. <i>Journal of Geographical Systems</i> , 2006, 8, 269-287.	1.9	68
87	Modelling Accessibility Using Space-Time Prism Concepts within Geographical Information Systems. , 2006, , 157-179.		4
88	Necessary Space-Time Conditions for Human Interaction. <i>Environment and Planning B: Planning and Design</i> , 2005, 32, 381-401.	1.7	115
89	Place-Based Versus People-Based Accessibility. , 2005, , 63-89.		38
90	A Measurement Theory for Time Geography. <i>Geographical Analysis</i> , 2005, 37, 17-45.	1.9	440

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91	Place-based versus People-based Accessibility. , 2005, , 63-89.		9
92	Tobler's First Law and Spatial Analysis. Annals of the American Association of Geographers, 2004, 94, 284-289.	3.0	549
93	User-centred time geography for location-based services. Geografiska Annaler, Series B: Human Geography, 2004, 86, 245-265.	0.8	101
94	Activities in Space and Time. Handbooks in Transport, 2004, , 647-660.	0.1	55
95	Representation and Spatial Analysis in Geographic Information Systems. Annals of the American Association of Geographers, 2003, 93, 574-594.	3.0	125
96	GIS and Geocomputation, Innovations in GIS 7, edited by Peter Atkinson and David Martin. Geographical Analysis, 2002, 34, 286-288.	1.9	1
97	Ethnographic Approach, Valuing the Built Environment: GIS and House Price Analysis, City Region 2020: Integrated Planning for a Sustainable Environment, the Urban Moment: Cosmopolitan Essays on the Late-20th-Century City, the Sustainable City: Urban Regeneration and Sustainability, Introduction to Planning Practice. Innovations in GIS 7: GIS and Geocomputation. Handbook of Environmental and Resource Economics, Transpo. Environment and Planning B: Planning and Design, 2001, 28, 623-636.	1.7	0
98	A GIS-based decision support system for analysis of route choice in congested urban road networks. Journal of Geographical Systems, 2001, 3, 3-24.	1.9	24
99	GIS Software for Measuring Space-Time Accessibility in Transportation Planning and Analysis. Geoinformatica, 2000, 4, 141-159.	2.0	126
100	Geographic representation in spatial analysis. Journal of Geographical Systems, 2000, 2, 55-60.	1.9	20
101	Discovering geographic knowledge in data rich environments. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2000, 1, 105-107.	3.2	2
102	Representing and Visualizing Physical, Virtual and Hybrid Information Spaces. Advances in Spatial Science, 2000, , 133-146.	0.3	25
103	Measuring Space-Time Accessibility Benefits within Transportation Networks: Basic Theory and Computational Procedures. Geographical Analysis, 1999, 31, 187-212.	1.9	119
104	Measuring Space-Time Accessibility Benefits within Transportation Networks: Basic Theory and Computational Procedures. Geographical Analysis, 1999, 31, 1-26.	1.9	149
105	Measuring Space-Time Accessibility Benefits within Transportation Networks: Basic Theory and Computational Procedures. Geographical Analysis, 1999, 31, 187-212.	1.9	169
106	Potential Contributions of Spatial Analysis to Geographic Information Systems for Transportation (GIS). Geographical Analysis, 1999, 31, 373-399.	1.9	117
107	GIS-based emergency response planning in a Mexico-U.S. border community. Applied Geographic Studies, 1998, 2, 111-130.	0.2	1
108	GIS and geometric representation in facility location problems. International Journal of Geographical Information Science, 1996, 10, 791-816.	2.2	68

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109	Geographic information system design for network equilibrium-based travel demand models. <i>Transportation Research Part C: Emerging Technologies</i> , 1996, 4, 373-389.	3.9	16
110	Exact Computational Methods for Calculating Distances Between Objects in a Cartographic Database. <i>Cartography and Geographic Information Science</i> , 1996, 23, 180-195.	1.1	28
111	PRICING POLICY REACTIONS TO AGGLOMERATION IN A MARKET WITH SPATIAL SEARCH*. <i>Journal of Regional Science</i> , 1996, 36, 393-415.	2.1	7
112	GIS and geometric representation in facility location problems. <i>International Journal of Geographical Information Science</i> , 1996, 10, 791-816.	2.2	6
113	Spatial search and spatial competition: a probability analysis of basic results from the spatially-restricted theory. <i>Annals of Regional Science</i> , 1995, 29, 67-89.	1.0	10
114	The hub network design problem. <i>Journal of Transport Geography</i> , 1994, 2, 31-40.	2.3	268
115	Modeling strategies for the spatial search problem. <i>Papers in Regional Science</i> , 1993, 72, 63-85.	1.0	17
116	Consumer search and retail analysis. <i>Journal of Retailing</i> , 1993, 69, 160-192.	4.0	27
117	Human Wayfinding, Environment-Behavior Relationships, and Artificial Intelligence. <i>Journal of Planning Literature</i> , 1992, 7, 139-150.	2.2	10
118	Properties and Estimation of a Production-Constrained Alonso Model. <i>Environment and Planning A</i> , 1991, 23, 127-138.	2.1	5
119	Solution strategies for the single facility minimax hub location problem. <i>Papers in Regional Science</i> , 1991, 70, 367-380.	1.0	53
120	Modelling accessibility using space-time prism concepts within geographical information systems. <i>International Journal of Geographical Information Science</i> , 1991, 5, 287-301.	2.2	501
121	A Synthesis of Some Market Area Delimitation Models. <i>Growth and Change</i> , 1989, 20, 14-33.	1.3	23
122	A formal procedure for generating regional product accounts for U.S. regions. <i>Socio-Economic Planning Sciences</i> , 1989, 23, 271-281.	2.5	0
123	Evidence of Increased Vehicle Speeding in Ohio's Major Cities during the COVID-19 Pandemic. <i>Findings</i> , 0, , .	0.0	8
124	How does street space influence crash frequency? An analysis using segmented street view imagery. <i>Environment and Planning B: Urban Analytics and City Science</i> , 0, , 239980832210909.	1.0	1