Harvey J Miller

List of Publications by Year
in descending order

124 papers	6,472 citations	87888 38 h-index	74163 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. Transportation Research Record, 2023, 2677, 15-27.	1.9	19
2	Realizable accessibility: evaluating the reliability of public transit accessibility using high-resolution real-time data. Journal of Geographical Systems, 2023, 25, 429-451.	3.1	8
3	What Is Essential Travel? Socioeconomic Differences in Travel Demand in Columbus, Ohio, during the COVID-19 Lockdown. Annals of the American Association of Geographers, 2022, 112, 1023-1046.	2.2	12
4	Impacts of bus rapid transit (BRT) on residential property values: A comparative analysis of 11 US BRT systems. Journal of Transport Geography, 2022, 100, 103324.	5.0	6
5	Understanding the role of urban social and physical environment in opioid overdose events using found geospatial data. Health and Place, 2022, 75, 102792.	3.3	12
6	Measuring risk of missing transfers in public transit systems using high-resolution schedule and real-time bus location data. Urban Studies, 2021, 58, 3140-3156.	3.7	7
7	The Role of Distanceâ€Dependent Versus Localized Amenities in Polarizing Urban Spatial Structure: A Spatioâ€Temporal Analysis of Residential Location Value in Columbus, Ohio, 2000â€“2015. Geographical Analysis, 2021, 53, 283-306.	3.5	10
8	Who Counts? Gender, Gatekeeping, and Quantitative Human Geography. Professional Geographer, 2021, 73, 48-61.	1.8	15
9	Activity-Based Analysis. , 2021, , 187-207.		7
10	Special Issue on New Mobility Technologies and Cities. Journal of Planning Literature, 2021, 36, 3-4.	3.5	1
11	Opioid Treatment Deserts: Concept development and application in a US Midwestern urban county. PLoS ONE, 2021, 16, e0250324.	2.5	18
12	COVID-19 exacerbates unequal food access. Applied Geography, 2021, 134, 102517.	3.7	19
13	Cultivating Urban Big Data. Urban Book Series, 2021, , 547-565.	0.6	2
14	Geographic information science III: GIScience, fast and slow â€“ Why faster geographic information is not always smarter. Progress in Human Geography, 2020, 44, 129-138.	5.6	9
15	Assessing public transit performance using real-time data: spatiotemporal patterns of bus operation delays in Columbus, Ohio, USA. International Journal of Geographical Information Science, 2020, 34, 367-392.	4.8	22
16	Network analysis of intraâ€hospital transfers and hospital onset clostridium difficile infection. Health Information and Libraries Journal, 2020, 37, 26-34.	2.5	9
17	Measuring the structural similarity of network time prisms using temporal signatures with graph indices. Transactions in GIS, 2020, 24, 3-26.	2.3	4
18	Does real-time transit information reduce waiting time? An empirical analysis. Transportation Research, Part A: Policy and Practice, 2020, 141, 167-179.	4.2	2

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19	Robust accessibility: Measuring accessibility based on travelers' heterogeneous strategies for managing travel time uncertainty. Journal of Transport Geography, 2020, 86, 102747.	5.0	30
20	311 service requests as indicators of neighborhood distress and opioid use disorder. Scientific Reports, 2020, 10, 19579.	3.3	15
21	The impacts of COVID-19 pandemic on public transit demand in the United States. PLoS ONE, 2020, 15, e0242476.	2.5	193
22	Movement analytics for sustainable mobility. Journal of Spatial Information Science, 2020, , .	1.2	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 Spaceâ€“Time Prisms Using Temporal Signatures. Annals of the American Association of Geographers, 2019, 109, 730-753.	2.2	12
28	Analyzing collective accessibility using average space-time prisms. Transportation Research, Part D: Transport and Environment, 2019, 69, 250-264.	6.8	37
29	Towards an integrated science of movement: converging research on animal movement ecology and human mobility science. International Journal of Geographical Information Science, 2019, 33, 855-876.	4.8	62
30	Accessibility with time and resource constraints: Computing hyper-prisms for sustainable transportation planning. Computers, Environment and Urban Systems, 2019, 73, 171-183.	7.1	19
31	Accessibility planning in American metropolitan areas: Are we there yet?. Urban Studies, 2019, 56, 167-192.	3.7	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. Applied Geography, 2018, 93, 47-63.	3.7	83
34	Street use and design: daily rhythms on four streets that differ in rated walkability. Journal of Urban Design, 2018, 23, 603-619.	1.4	7
35	Geographic information science II: Mesogeography. Progress in Human Geography, 2018, 42, 600-609.	5.6	12
36	Geographic regions for assessing built environmental correlates with walking trips: A comparison using different metrics and model designs. Health and Place, 2017, 45, 1-9.	3.3	19

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37	Geographic information science I. Progress in Human Geography, 2017, 41, 489-500.	5.6	10
38	Green accessibility: Estimating the environmental costs of network-time prisms for sustainable transportation planning. Journal of Transport Geography, 2017, 64, 109-119.	5.0	17
39	Kinetic prisms: incorporating acceleration limits into spaceâ€“time prisms. International Journal of Geographical Information Science, 2017, 31, 2164-2194.	4.8	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.	2.0	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.	1.2	43
44	Measuring Space-Time Prism Similarity Through Temporal Profile Curves. Lecture Notes in Geoinformation and Cartography, 2016, , 51-66.	1.0	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.	2.2	19
46	Modeling Visit Probabilities within Networkâ€Time Prisms Using <scp>M</scp>arkov Techniques. Geographical Analysis, 2016, 48, 18-42.	3.5	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.	2.0	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.	0.8	23
49	Environmental, behavioral, and psychological predictors of transit ridership: Evidence from a community intervention. Journal of Environmental Psychology, 2016, 46, 188-196.	5.1	19
50	Estimating the most likely spaceâ€“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.	7.6	46
51	Evaluating the attractiveness of a new light rail extension: Testing simple change and displacement change hypotheses. Transport Policy, 2016, 45, 15-23.	6.6	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.	2.7	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.	5.0	83

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55	Geographic Information Systems for Transportation in the 21st Century. Geography Compass, 2015, 9, 180-189.	2.7	29
56	Transportation network design for maximizing spaceâ€“time accessibility. Transportation Research Part B: Methodological, 2015, 81, 555-576.	5.9	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. Health and Place, 2015, 36, 8-17.	3.3	64
58	Data-driven geography. Geo Journal, 2015, 80, 449-461.	3.1	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. Journal of Urban Technology, 2014, 21, 1-7.	4.7	7
62	Adding maps (GPS) to accelerometry data to improve study participantsâ€™ recall of physical activity: a methodological advance in physical activity research. British Journal of Sports Medicine, 2014, 48, 1054-1058.	6.7	19
63	Simulating visit probability distributions within planar space-time prisms. International Journal of Geographical Information Science, 2014, 28, 104-125.	4.8	56
64	Detecting and Analyzing Mobility Hotspots using Surface Networks. Transactions in GIS, 2014, 18, 911-935.	2.3	41
65	Physical activity mediates the relationship between perceived crime safety and obesity. Preventive Medicine, 2014, 66, 140-144.	3.4	46
66	Decentralized and coordinate-free computation of critical points and surface networks in a discretized scalar field. International Journal of Geographical Information Science, 2014, 28, 1-21.	4.8	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. Annals of the American Association of Geographers, 2013, 103, 483-504.	3.0	98
70	Developing context-sensitive livability indicators for transportation planning: a measurement framework. Journal of Transport Geography, 2013, 26, 51-64.	5.0	83
71	Do air quality alerts reduce traffic? An analysis of traffic data from the Salt Lake City metropolitan area, Utah, USA. Transport Policy, 2013, 30, 173-185.	6.6	30
72	Beyond sharing: cultivating cooperative transportation systems through geographic information science. Journal of Transport Geography, 2013, 31, 296-308.	5.0	51

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73	Exploring traffic flow databases using space-time plots and data cubes. Transportation, 2012, 39, 215-234.	4.0	28
74	Analytical methods for error propagation in planar spaceâ€“time prisms. Journal of Geographical Systems, 2011, 13, 327-354.	3.1	21
75	Kinetic space-time prisms. , 2011, , .		7
76	Dealing with Timing and Synchronization in Opportunities for Joint Activity Participation. å…¬å…±æ´»åŠ¨ä¸Žæœºä¼šä¸®žæ—¶æ€§ä¸Ž Geographical Analysis, 2010, 42, 245-266.	3.5	26
77	THE DATA AVALANCHE IS HERE. SHOULDNâ€™T WE BE DIGGING?. Journal of Regional Science, 2010, 50, 181-201	3.3	164
78	Anchor uncertainty and space-time prisms on road networks. International Journal of Geographical Information Science, 2010, 24, 1223-1248.	4.8	76
79	A Field-Based Theory for Time Geography. Annals of the American Association of Geographers, 2009, 99, 49-75.	3.0	124
80	Geographic Data Mining and Knowledge Discovery An Overview. Chapman & Hall/CRC Data Mining and Knowledge Discovery Series, 2009, , 1-26.	0.2	11
81	Time Geography. , 2008, , 1151-1156.		10
82	Mobile Objects Databases. , 2008, , 670-671.		1
83	Timeâ€“space transformations of geographic space for exploring, analyzing and visualizing transportation systems. Journal of Transport Geography, 2007, 15, 2-17.	5.0	62
84	Place-Based versus People-Based Geographic Information Science. Geography Compass, 2007, 1, 503-535.	2.7	147
85	Societies and cities in the age of instant access. Geospatial Technology and the Role of Location in Science, 2007, , 3-28.	0.5	6
86	U-Access: a web-based system for routing pedestrians of differing abilities. Journal of Geographical Systems, 2006, 8, 269-287.	3.1	68
87	Modelling Accessibility Using Space-Time Prism Concepts within Geographical Information Systems. , 2006, , 157-179.		4
88	Necessary Spaceâ€”Time Conditions for Human Interaction. Environment and Planning B: Planning and Design, 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. Geographical Analysis, 2005, 37, 17-45.	3.5	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	Userâ€centred time geography for locationâ€based services. Geografiska Annaler, Series B: Human Geography, 2004, 86, 245-265.	1.4	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.	3.5	1
97	Reviews: Spatial Models and GIS: New Potential and New Models, GISDATA 7, the Internet: An 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.	3.1	24
99	GIS Software for Measuring Space-Time Accessibility in Transportation Planning and Analysis. GeoInformatica, 2000, 4, 141-159.	2.7	126
100	Geographic representation in spatial analysis. Journal of Geographical Systems, 2000, 2, 55-60.	3.1	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.	4.0	2
102	Representing and Visualizing Physical, Virtual and Hybrid Information Spaces. Advances in Spatial Science, 2000, , 133-146.	0.6	25
103	Measuring Spaceâ€Time Accessibility Benefits within Transportation Networks: Basic Theory and Computational Procedures. Geographical Analysis, 1999, 31, 187-212.	3.5	119
104	Measuring Spaceâ€Time Accessibility Benefits within Transportation Networks: Basic Theory and Computational Procedures. Geographical Analysis, 1999, 31, 1-26.	3.5	149
105	Measuring Spaceâ€Time Accessibility Benefits within Transportation Networks: Basic Theory and Computational Procedures. Geographical Analysis, 1999, 31, 187-212.	3.5	169
106	Potential Contributions of Spatial Analysis to Geographic Information Systems for Transportation (GISâ€T). Geographical Analysis, 1999, 31, 373-399.	3.5	117
107	GIS-based emergency response planning in a Mexico-U.S. border community. Applied Geographic Studies, 1998, 2, 111-130.	0.1	1
108	GIS and geometric representation in facility location problems. International Journal of Geographical Information Science, 1996, 10, 791-816.	4.8	68

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109	Geographic information system design for network equilibrium-based travel demand models. Transportation Research Part C: Emerging Technologies, 1996, 4, 373-389.	7.6	16
110	Exact Computational Methods for Calculating Distances Between Objects in a Cartographic Database. Cartography and Geographic Information Science, 1996, 23, 180-195.	1.0	28
111	PRICING POLICY REACTIONS TO AGGLOMERATION IN A MARKET WITH SPATIAL SEARCH*. Journal of Regional Science, 1996, 36, 393-415.	3.3	7
112	GIS and geometric representation in facility location problems. International Journal of Geographical Information Science, 1996, 10, 791-816.	4.8	6
113	Spatial search and spatial competition: a probability analysis of basic results from the spatially-restricted theory. Annals of Regional Science, 1995, 29, 67-89.	2.1	10
114	The hub network design problem. Journal of Transport Geography, 1994, 2, 31-40.	5.0	268
115	Modeling strategies for the spatial search problem. Papers in Regional Science, 1993, 72, 63-85.	1.9	17
116	Consumer search and retail analysis. Journal of Retailing, 1993, 69, 160-192.	6.2	27
117	Human Wayfinding, Environment-Behavior Relationships, and Artificial Intelligence. Journal of Planning Literature, 1992, 7, 139-150.	3.5	10
118	Properties and Estimation of a Production-Constrained Alonso Model. Environment and Planning A, 1991, 23, 127-138.	3.6	5
119	Solution strategies for the single facility minimax hub location problem. Papers in Regional Science, 1991, 70, 367-380.	1.9	53
120	Modelling accessibility using space-time prism concepts within geographical information systems. International Journal of Geographical Information Science, 1991, 5, 287-301.	4.8	501
121	A Synthesis of Some Market Area Delimitation Models. Growth and Change, 1989, 20, 14-33.	2.6	23
122	A formal procedure for generating regional product accounts for U.S. regions. Socio-Economic Planning Sciences, 1989, 23, 271-281.	5.0	0
123	Evidence of Increased Vehicle Speeding in Ohioâ€™s Major Cities during the COVID-19 Pandemic. Findings, 0, , .	0.0	8
124	How does street space influence crash frequency? An analysis using segmented street view imagery. Environment and Planning B: Urban Analytics and City Science, 0, , 239980832210909.	2.0	1