Shih-Lung Shaw

List of Publications by Year
in descending order

74	3,961	126708	123241
papers	citations	33	61
		h-index	g-index

75	75	75	3355
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new insight into land use classification based on aggregated mobile phone data. International Journal of Geographical Information Science, 2014, 28, 1988-2007.	2.2	312
2	A Sensor-Fusion Drivable-Region and Lane-Detection System for Autonomous Vehicle Navigation in Challenging Road Scenarios. IEEE Transactions on Vehicular Technology, 2014, 63, 540-555.	3.9	296
3	Impacts of high speed rail on railroad network accessibility in China. Journal of Transport Geography, 2014, 40, 112-122.	2.3	239
4	Optimizing the locations of electric taxi charging stations: A spatial–temporal demand coverage approach. Transportation Research Part C: Emerging Technologies, 2016, 65, 172-189.	3.9	218
5	Measuring segregation: an activity space approach. Journal of Geographical Systems, 2011, 13, 127-145.	1.9	217
6	Coupling mobile phone and social media data: a new approach to understanding urban functions and diurnal patterns. International Journal of Geographical Information Science, 2017, 31, 2331-2358.	2.2	200
7	A GIS-based time-geographic approach of studying individual activities and interactions in a hybrid physical–virtual space. Journal of Transport Geography, 2009, 17, 141-149.	2.3	168
8	Exploratory data analysis of activity diary data: a space–time GIS approach. Journal of Transport Geography, 2011, 19, 394-404.	2.3	148
9	Map-matching algorithm for large-scale low-frequency floating car data. International Journal of Geographical Information Science, 2014, 28, 22-38.	2.2	138
10	Understanding aggregate human mobility patterns using passive mobile phone location data: a home-based approach. Transportation, 2015, 42, 625-646.	2.1	123
11	Editorial: human dynamics in the mobile and big data era. International Journal of Geographical Information Science, 2016, 30, 1687-1693.	2.2	106
12	A Space–Time GIS Approach to Exploring Large Individual–based Spatiotemporal Datasets. Transactions in GIS, 2008, 12, 425-441.	1.0	104
13	Understanding the bias of call detail records in human mobility research. International Journal of Geographical Information Science, 2016, 30, 1738-1762.	2.2	98
14	Hub structures of major US passenger airlines. Journal of Transport Geography, 1993, 1, 47-58.	2.3	78
15	Spatiotemporal data model for network time geographic analysis in the era of big data. International Journal of Geographical Information Science, 2016, 30, 1041-1071.	2.2	70
16	A GIS-based spatial decision support system for tourists of Great Smoky Mountains National Park. Journal of Retailing and Consumer Services, 2007, 14, 269-278.	5.3	69
17	Measuring place-based accessibility under travel time uncertainty. International Journal of Geographical Information Science, 2017, 31, 783-804.	2.2	69
18	Reliable Space–Time Prisms Under Travel Time Uncertainty. Annals of the American Association of Geographers, 2013, 103, 1502-1521.	3.0	67

#	Article	IF	Citations
19	Integrated land use and transportation interaction: a temporal GIS exploratory data analysis approach. Journal of Transport Geography, 2003, 11, 103-115.	2.3	63
20	Automatic Identification System-Based Approach for Assessing the Near-Miss Collision Risk Dynamics of Ships in Ports. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 534-543.	4.7	54
21	Fine-grained prediction of urban population using mobile phone location data. International Journal of Geographical Information Science, 2018, 32, 1770-1786.	2.2	51
22	Spatiotemporal analysis of critical transportation links based on time geographic concepts: a case study of critical bridges in Wuhan, China. Journal of Transport Geography, 2012, 23, 44-59.	2.3	49
23	Understanding the Impacts of Human Mobility on Accessibility Using Massive Mobile Phone Tracking Data. Annals of the American Association of Geographers, 2018, 108, 1115-1133.	1.5	49
24	China's airline consolidation and its effects on domestic airline networks and competition. Journal of Transport Geography, 2009, 17, 293-305.	2.3	47
25	A bi-level Voronoi diagram-based metaheuristic for a large-scale multi-depot vehicle routing problem. Transportation Research, Part E: Logistics and Transportation Review, 2014, 61, 84-97.	3.7	47
26	Understanding Spatiotemporal Patterns of Human Convergence and Divergence Using Mobile Phone Location Data. ISPRS International Journal of Geo-Information, 2016, 5, 177.	1.4	46
27	Spatiotemporal model for assessing the stability of urban human convergence and divergence patterns. International Journal of Geographical Information Science, 2017, 31, 2119-2141.	2.2	43
28	Extracting and analyzing semantic relatedness between cities using news articles. International Journal of Geographical Information Science, 2017, 31, 2427-2451.	2.2	38
29	Airline mergers and their effect on network structure. Journal of Transport Geography, 1994, 2, 234-246.	2.3	37
30	Understanding the New Human Dynamics in Smart Spaces and Places: Toward a Splatial Framework. Annals of the American Association of Geographers, 2020, 110, 339-348.	1.5	37
31	A GIS data model for landmark-based pedestrian navigation. International Journal of Geographical Information Science, 2012, 26, 817-838.	2.2	36
32	A space–time efficiency model for optimizing intra-intersection vehicle–pedestrian evacuation movements. Transportation Research Part C: Emerging Technologies, 2013, 31, 112-130.	3.9	36
33	Handling Disaggregate Spatiotemporal Travel Data in GIS. GeoInformatica, 2000, 4, 161-178.	2.0	35
34	Potential effects of ICT on face-to-face meeting opportunities: a GIS-based time-geographic approach. Journal of Transport Geography, 2011, 19, 422-433.	2.3	35
35	Who are the children using hospice care?. Journal for Specialists in Pediatric Nursing, 2014, 19, 308-315.	0.6	33
36	Geographic Information Systems for Transportation in the 21st Century. Geography Compass, 2015, 9, 180-189.	1.5	29

#	ARTICLE	IF	CITATIONS
37	Understanding the Representativeness of Mobile Phone Location Data in Characterizing Human Mobility Indicators. ISPRS International Journal of Geo-Information, 2017, 6, 7.	1.4	29
38	The effect of temporal sampling intervals on typical human mobility indicators obtained from mobile phone location data. International Journal of Geographical Information Science, 2019, 33, 1471-1495.	2.2	29
39	What about people in pedestrian navigation?. Geo-Spatial Information Science, 2015, 18, 135-150.	2.4	28
40	Exploring space–time paths in physical and social closeness spaces: a space–time GIS approach. International Journal of Geographical Information Science, 2015, 29, 742-761.	2.2	25
41	Re-Identification Risk versus Data Utility for Aggregated Mobility Research Using Mobile Phone Location Data. PLoS ONE, 2015, 10, e0140589.	1.1	23
42	Guest editorial introduction: time geography – its past, present and future. Journal of Transport Geography, 2012, 23, 1-4.	2.3	22
43	A Voronoi neighborhood-based search heuristic for distance/capacity constrained very large vehicle routing problems. International Journal of Geographical Information Science, 2013, 27, 741-764.	2.2	21
44	Estimating Potential Demand of Bicycle Trips from Mobile Phone Data—An Anchor-Point Based Approach. ISPRS International Journal of Geo-Information, 2016, 5, 131.	1.4	20
45	A framework of integrating GIS and parallel computing for spatial control problems – a case study of wildfire control. International Journal of Geographical Information Science, 2012, 26, 621-641.	2.2	19
46	Time efficiency assessment of ship movements in maritime ports: A case study of two ports based on AIS data. Journal of Transport Geography, 2020, 86, 102741.	2.3	19
47	Geographic information systems for transportation: from a static past to a dynamic future. Annals of GIS, 2010, 16, 129-140.	1.4	17
48	An assessment method for landmark recognition time in real scenes. Journal of Environmental Psychology, 2014, 40, 206-217.	2.3	16
49	Toward space-time buffering for spatiotemporal proximity analysis of movement data. International Journal of Geographical Information Science, 2018, 32, 1211-1246.	2.2	16
50	Editorial: GIScience for human dynamics research in a changing world. Transactions in GIS, 2018, 22, 891-899.	1.0	16
51	Hierarchical tone mapping based on image colour appearance model. IET Computer Vision, 2014, 8, 358-364.	1.3	15
52	An estimate of rural exodus in China using location-aware data. PLoS ONE, 2018, 13, e0201458.	1.1	15
53	GIS for urban travel demand analysis: Requirements and alternatives. Computers, Environment and Urban Systems, 1993, 17, 15-29.	3.3	14
54	A simple and direct method to analyse the influences of sampling fractions on modelling intra-city human mobility. International Journal of Geographical Information Science, 2019, 33, 618-644.	2.2	13

#	ARTICLE	IF	CITATIONS
55	Urban Transit Accessibility Analysis Using a GIS: A Case Study of Florida's Tri-Rail System. Southeastern Geographer, 1991, 31, 15-30.	0.1	11
56	Clustering of temporal event processes. International Journal of Geographical Information Science, 2013, 27, 484-510.	2.2	10
57	Geographic Prevalence and Mix of Regional Cuisines in Chinese Cities. ISPRS International Journal of Geo-Information, 2018, 7, 183.	1.4	10
58	Identifying stops from mobile phone location data by introducing uncertain segments. Transactions in GIS, 2018, 22, 958-974.	1.0	9
59	Space-time personalized short message service (SMS) for infectious disease control â€" Policies for precise public health. Applied Geography, 2020, 114, 102103.	1.7	9
60	Effects of Data Preprocessing Methods on Addressing Location Uncertainty in Mobile Signaling Data. Annals of the American Association of Geographers, 2021, 111, 515-539.	1.5	9
61	Exploring the Effects of Sampling Locations for Calibrating the Huff Model Using Mobile Phone Location Data. Sustainability, 2017, 9, 159.	1.6	8
62	Human dynamics in smart and connected communities. Computers, Environment and Urban Systems, 2018, 72, 1-3.	3.3	8
63	Introduction: Human Dynamics in Perspective. Human Dynamics in Smart Cities, 2018, , 1-11.	0.2	7
64	A <scp>S</scp>paceâ€‹<scp>T</scp>ime Raster <scp>GIS</scp> Data Model for Spatiotemporal Analysis of Vegetation Responses to a Freeze Event. Transactions in GIS, 2015, 19, 151-168.	1.0	6
65	Relative space-based GIS data model to analyze the group dynamics of moving objects. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 153, 74-95.	4.9	6
66	Geography: a place for GIS. Applied Geography, 1993, 13, 107-110.	1.7	4
67	An enhanced model for evacuation vulnerability assessment in urban areas. Computers, Environment and Urban Systems, 2020, 84, 101540.	3.3	4
68	A Method for the Exploratory Analysis of Airline Networks. Professional Geographer, 1994, 46, 468-477.	1.0	3
69	Capturing Spatiotemporal Dynamics in Computational Modeling. Geographic Information Science & Technology Body of Knowledge, 2019, 2019, .	0.1	3
70	A sensitive indicator of regional spaceâ€"time accessibility. Annals of GIS, 2010, 16, 155-164.	1.4	2
71	Impacts of high-speed rails on the accessibility inequality of railway network in China. , 2014, , .		2
72	Integrated environmental and human observations for smart cities. Environment and Planning B: Urban Analytics and City Science, 2021, 48, 1375-1379.	1.0	2

#	Article	IF	Citations
73	Guest Editors' Introduction: The Geospatial Humanities: Transdisciplinary Opportunities. International Journal of Humanities and Arts Computing, 2020, 14, 1-5.	0.3	2
74	UCGIS at 25. Transactions in GIS, 0, , .	1.0	0