Hassan A Karimi

List of Publications by Year
in descending order

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60	1,443	331259 21	344852 36
papers	citations	h-index	g-index

61	61	61	1467
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Are Accessible Software Accountable?: A Commentary. Assistive Technology, 2022, , .	1.2	0
2	Impact of spatial distribution information of rainfall in runoff simulation using deep learning method. Hydrology and Earth System Sciences, 2022, 26, 2387-2403.	1.9	4
3	Geographically-explicit Ecological Momentary Assessment (GEMA) Architecture and Components: Lessons Learned from PMOMS. Informatics for Health and Social Care, 2021, 46, 158-177.	1.4	2
4	A semantically driven self-supervised algorithm for detecting anomalies in image sets. Computer Vision and Image Understanding, 2021, 213, 103279.	3.0	5
5	Context-Aware Sensor Uncertainty Estimation for Autonomous Vehicles. Vehicles, 2021, 3, 721-735.	1.7	3
6	Simulating Public Buses as a Mobile Platform for Deployment of Publicly Accessible Automated External Defibrillators. Prehospital Emergency Care, 2020, 24, 238-244.	1.0	2
7	A Method for Extracting Some Key Terrain Features from Shaded Relief of Digital Terrain Models. Remote Sensing, 2020, 12, 2809.	1.8	8
8	Deep Learning-Enabled Semantic Inference of Individual Building Damage Magnitude from Satellite Images. Algorithms, 2020, 13, 195.	1.2	21
9	Persistent homology on LiDAR data to detect landslides. Remote Sensing of Environment, 2020, 246, 111816.	4.6	18
10	Spatial Knowledge Acquisition for Cognitive Maps in Autonomous Vehicles. Lecture Notes in Computer Science, 2020, , 384-397.	1.0	2
11	A methodology with a distributed algorithm for large-scale trajectory distribution prediction. International Journal of Geographical Information Science, 2019, 33, 833-854.	2.2	5
12	Understanding Pregnancy and Postpartum Health Using Ecological Momentary Assessment and Mobile Technology: Protocol for the Postpartum Mothers Mobile Study. JMIR Research Protocols, 2019, 8, e13569.	0.5	18
13	Using phone sensors and an artificial neural network to detect gait changes during drinking episodes in the natural environment. Gait and Posture, 2018, 60, 116-121.	0.6	32
14	A novel methodology for prediction of spatial-temporal activities using latent features. Computers, Environment and Urban Systems, 2017, 62, 74-85.	3.3	16
15	Context-aware obstacle detection for navigation by visually impaired. Image and Vision Computing, 2017, 64, 103-115.	2.7	32
16	Collaborative personalized multiâ€criteria wayfinding for wheelchair users in outdoors. Transactions in GIS, 2017, 21, 782-795.	1.0	15
17	Parallel implementation of Kaufmanâ€™s initialization for clustering large remote sensing images on clouds. Computers, Environment and Urban Systems, 2017, 61, 153-162.	3.3	7
18	A Topologyâ€Inferred Graphâ€Based Heuristic Algorithm for Map Simplification. Transactions in GIS, 2016, 20, 775-789.	1.0	0

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19	Adapting the Index of Relative Rurality (IRR) to Estimate Rurality at the ZIP Code Level: A Rural Classification System in Health Services Research. Journal of Rural Health, 2016, 32, 219-227.	1.6	27
20	Multi-modal transportation with multi-criteria walking (MMT-MCW): Personalized route recommender. Computers, Environment and Urban Systems, 2016, 55, 44-54.	3.3	13
21	Interactive, mobile, AGIle and novel education (IMAGINE): a conceptual framework to support students with mobility challenges in higher education. Disability and Rehabilitation: Assistive Technology, 2016, 11, 50-60.	1.3	7
22	Real-Time Sidewalk Slope Calculation through Integration of GPS Trajectory and Image Data to Assist People with Disabilities in Navigation. ISPRS International Journal of Geo-Information, 2015, 4, 741-753.	1.4	5
23	Simulating and visualizing sidewalk accessibility for wayfinding of people with disabilities. International Journal of Cartography, 2015, 1, 79-93.	0.2	8
24	Understanding route choices for wheelchair navigation. Disability and Rehabilitation: Assistive Technology, 2015, 10, 198-210.	1.3	25
25	Automatic Selection of Landmarks for Navigation Guidance. Transactions in GIS, 2015, 19, 247-261.	1.0	11
26	Personalized accessibility map (PAM): a novel assisted wayfinding approach for people with disabilities. Annals of GIS, 2014, 20, 99-108.	1.4	48
27	Computing least air pollution exposure routes. International Journal of Geographical Information Science, 2014, 28, 343-362.	2.2	26
28	A critical review of real-time map-matching algorithms: Current issues and future directions. Computers, Environment and Urban Systems, 2014, 48, 153-165.	3.3	113
29	Pedestrian network map generation approaches and recommendation. International Journal of Geographical Information Science, 2013, 27, 947-962.	2.2	51
30	A pedestrian network construction algorithm based on multiple GPS traces. Transportation Research Part C: Emerging Technologies, 2013, 26, 285-300.	3.9	59
31	Grid-Based Geoprocessing for Integrated Global Navigation Satellite System Simulation. Journal of Computing in Civil Engineering, 2012, 26, 19-27.	2.5	3
32	A Description of the Development and Architecture of an SMS-Based System for Dealing With Depression. Procedia Technology, 2012, 5, 670-678.	1.1	1
33	A fuzzy logic map matching for wheelchair navigation. GPS Solutions, 2012, 16, 273-282.	2.2	36
34	Geocoding Recommender: An Algorithm to Recommend Optimal Online Geocoding Services for Applications. Transactions in GIS, 2011, 15, 869-886.	1.0	19
35	The Association between Driving Distance and Glycemic Control in Rural Areas. Journal of Diabetes Science and Technology, 2011, 5, 494-500.	1.3	37
36	Assessing mobile phone communication utility preferences in a social support network. Telematics and Informatics, 2010, 27, 363-369.	3.5	24

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37	Indoor Routing for Individuals with Special Needs and Preferences. Transactions in GIS, 2010, 14, 299-329.	1.0	27
38	Comparative evaluation and analysis of online geocoding services. International Journal of Geographical Information Science, 2010, 24, 1081-1100.	2.2	59
39	Personalised routing for wheelchair navigation. Journal of Location Based Services, 2009, 3, 24-54.	1.4	73
40	A Chainâ€Codeâ€Based Map Matching Algorithm for Wheelchair Navigation. Transactions in GIS, 2009, 13, 197-214.	1.0	26
41	Grid query optimizer to improve query processing in grids. Future Generation Computer Systems, 2008, 24, 342-353.	4.9	20
42	Applications of locationâ€“based services: a selected review. Journal of Location Based Services, 2007, 1, 89-111.	1.4	110
43	A critical evaluation of location based services and their potential. Journal of Location Based Services, 2007, 1, 5-45.	1.4	125
44	High-throughput modeling and analysis of protein structural dynamics. Briefings in Bioinformatics, 2007, 8, 432-445.	3.2	8
45	Ontological Engineering for Interpreting Geospatial Queries. Transactions in GIS, 2007, 11, 115.	1.0	10
46	Location awareness through trajectory prediction. Computers, Environment and Urban Systems, 2006, 30, 741-756.	3.3	59
47	Evaluation of algorithms developed for adaptive grid air quality modeling using surface elevation data. Computers, Environment and Urban Systems, 2005, 29, 718-734.	3.3	5
48	Using Maximum Likelihood (ML) and Maximum A Prior Probability (MAP) in Iterative Selfâ€Organizing Data (ISODATA). Geocarto International, 2004, 19, 29-36.	1.7	4
49	Finding Optimal Bus Service Routes: Internet-Based Methodology to Serve Transit Patrons. Journal of Computing in Civil Engineering, 2004, 18, 83-91.	2.5	9
50	GPSLoc: Framework for Predicting Global Positioning System Quality of Service. Journal of Computing in Civil Engineering, 2004, 18, 196-206.	2.5	14
51	Developing an Automated Procedure for Extraction of Road Data from High-Resolution Satellite Images for Geospatial Information Systems. Journal of Transportation Engineering, 2004, 130, 621-631.	0.9	9
52	Transportation Distance Measurement Data Quality. Journal of Computing in Civil Engineering, 2003, 17, 75-87.	2.5	13
53	Evaluation of Roadway Infrastructure Data Collection Technologies. Public Works Management Policy, 2001, 6, 18-31.	0.7	4
54	Coupling methodologies for environmental models. Environmental Modelling and Software, 2000, 15, 479-488.	1.9	74

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55	Evaluation of Mobile Mapping Systems for Roadway Data Collection. Journal of Computing in Civil Engineering, 2000, 14, 168-173.	2.5	16
56	Choosing an Inventory Data Collection System. Transportation Research Record, 1999, 1690, 126-133.	1.0	1
57	Uncertainty analysis of environmental models within GIS environments. Computers and Geosciences, 1998, 24, 119-130.	2.0	29
58	Editorial: Data Acquisition Through Emerging High Resolution Satellite Imagery. Journal of Computing in Civil Engineering, 1998, 12, 126-128.	2.5	0
59	Current and future directions in GISs. Computers, Environment and Urban Systems, 1996, 20, 85-97.	3.3	15
60	Evaluating strategies for integrating environmental models with GIS: Current trends and future needs. Computers, Environment and Urban Systems, 1996, 20, 413-425.	3.3	30