

Diansheng Guo

List of Publications by Year in descending order

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45
papers

2,754
citations

218592

26
h-index

254106

43
g-index

45
all docs

45
docs citations

45
times ranked

2378
citing authors

#	ARTICLE	IF	CITATIONS
1	Regionalization with dynamically constrained agglomerative clustering and partitioning (REDCAP). International Journal of Geographical Information Science, 2008, 22, 801-823.	2.2	247
2	A Visualization System for Space-Time and Multivariate Patterns (VIS-STAMP). IEEE Transactions on Visualization and Computer Graphics, 2006, 12, 1461-1474.	2.9	243
3	Spatial data mining and geographic knowledge discovery—An introduction. Computers, Environment and Urban Systems, 2009, 33, 403-408.	3.3	227
4	Flow Mapping and Multivariate Visualization of Large Spatial Interaction Data. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 1041-1048.	2.9	179
5	A novel approach to leveraging social media for rapid flood mapping: a case study of the 2015 South Carolina floods. Cartography and Geographic Information Science, 2018, 45, 97-110.	1.4	148
6	Discovering Spatial Patterns in Origin-Destination Mobility Data. Transactions in GIS, 2012, 16, 411-429.	1.0	126
7	Multivariate Analysis and Geovisualization with an Integrated Geographic Knowledge Discovery Approach. Cartography and Geographic Information Science, 2005, 32, 113-132.	1.4	124
8	Visual analytics of spatial interaction patterns for pandemic decision support. International Journal of Geographical Information Science, 2007, 21, 859-877.	2.2	119
9	Understanding U.S. regional linguistic variation with Twitter data analysis. Computers, Environment and Urban Systems, 2016, 59, 244-255.	3.3	105
10	Origin-Destination Flow Data Smoothing and Mapping. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 2043-2052.	2.9	102
11	Mapping Large Spatial Flow Data with Hierarchical Clustering. Transactions in GIS, 2014, 18, 421-435.	1.0	95
12	Coordinating Computational and Visual Approaches for Interactive Feature Selection and Multivariate Clustering. Information Visualization, 2003, 2, 232-246.	1.2	82
13	Automatic Region Building for Spatial Analysis. Transactions in GIS, 2011, 15, 29-45.	1.0	75
14	A graph-based approach to vehicle trajectory analysis. Journal of Location Based Services, 2010, 4, 183-199.	1.4	72
15	Constructing geographic areas for cancer data analysis: A case study on late-stage breast cancer risk in Illinois. Applied Geography, 2012, 35, 1-11.	1.7	70
16	Analyzing lexical emergence in Modern American English online. English Language and Linguistics, 2017, 21, 99-127.	0.3	65
17	ICEAGE: Interactive Clustering and Exploration of Large and High-Dimensional Geodata. Geoinformatica, 2003, 7, 229-253.	2.0	56
18	A Generalized Radiation Model for Human Mobility: Spatial Scale, Searching Direction and Trip Constraint. PLoS ONE, 2015, 10, e0143500.	1.1	53

#	ARTICLE	IF	CITATIONS
19	A Clustering-Based Approach to the Capacitated Facility Location Problem. Transactions in GIS, 2008, 12, 323-339.	1.0	50
20	Mapping Lexical Innovation on American Social Media. Journal of English Linguistics, 2018, 46, 293-319.	0.3	46
21	Detecting Non-personal and Spam Users on Geo-tagged Twitter Network. Transactions in GIS, 2014, 18, 370-384.	1.0	44
22	Regionalization of forest pattern metrics for the continental United States using contiguity constrained clustering and partitioning. Ecological Informatics, 2012, 9, 11-18.	2.3	43
23	Local entropy map: a nonparametric approach to detecting spatially varying multivariate relationships. International Journal of Geographical Information Science, 2010, 24, 1367-1389.	2.2	42
24	Early Detection of Terrorism Outbreaks Using Prospective Space-Time Scan Statistics. Professional Geographer, 2013, 65, 676-691.	1.0	33
25	Spatial ordering and encoding for geographic data mining and visualization. Journal of Intelligent Information Systems, 2006, 27, 243-266.	2.8	28
26	Detecting spatial community structure in movements. International Journal of Geographical Information Science, 2018, 32, 1326-1347.	2.2	28
27	Mapping Lexical Dialect Variation in British English Using Twitter. Frontiers in Artificial Intelligence, 2019, 2, 11.	2.0	27
28	Design and evaluation of line symbolizations for origin-destination flow maps. Information Visualization, 2017, 16, 309-331.	1.2	26
29	Visualizing Patterns in a Global Terrorism Incident Database. Environment and Planning B: Planning and Design, 2007, 34, 767-784.	1.7	22
30	Urban event detection with big data of taxi OD trips: A time series decomposition approach. Transactions in GIS, 2017, 21, 560-574.	1.0	20
31	Smoothing locational measures in spatial interaction networks. Computers, Environment and Urban Systems, 2013, 41, 12-25.	3.3	17
32	Analysis of big patient mobility data for identifying medical regions, spatio-temporal characteristics and care demands of patients on the move. International Journal of Health Geographics, 2018, 17, 32.	1.2	17
33	Identifying functionally connected habitat compartments with a novel regionalization technique. Landscape Ecology, 2013, 28, 1949-1959.	1.9	16
34	iRedistrict: Geovisual analytics for redistricting optimization. Journal of Visual Languages and Computing, 2011, 22, 279-289.	1.8	14
35	Mapping family connectedness across space and time. Cartography and Geographic Information Science, 2014, 41, 14-26.	1.4	13
36	Quantifying Animal Trajectories Using Spatial Aggregation and Sequence Analysis: A Case Study of Differentiating Trajectories of Multiple Species. Geographical Analysis, 2016, 48, 275-291.	1.9	12

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37	The application of growth curve modeling for the analysis of diachronic corpora. <i>Language Dynamics and Change</i> , 2017, 7, 102-125.	0.4	11
38	Density-based multi-scale flow mapping and generalization. <i>Computers, Environment and Urban Systems</i> , 2019, 77, 101359.	3.3	11
39	Greedy Optimization for Contiguity-Constrained Hierarchical Clustering. , 2009, , .		10
40	Understanding Climate Change Patterns with Multivariate Geovisualization. , 2009, , .		9
41	Assessment of <scp>NARCCAP</scp> model in simulating rainfall extremes using a spatially constrained regionalization method. <i>International Journal of Climatology</i> , 2016, 36, 2368-2378.	1.5	9
42	Connecting family trees to construct a population-scale and longitudinal geo-social network for the U.S.. <i>International Journal of Geographical Information Science</i> , 2020, , 1-44.	2.2	8
43	A novel big data approach to measure and visualize urban accessibility. <i>Computational Urban Science</i> , 2021, 1, 1.	1.9	4
44	Influence of DEM orientation on the error of slope calculation. <i>Earth Science Informatics</i> , 2014, 7, 277-285.	1.6	3
45	An Area-Based Approach for Estimating Extreme Precipitation Probability. <i>Geographical Analysis</i> , 2018, 50, 314-333.	1.9	3