

Yee Leung

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115
papers

4,198
citations

34
h-index

63
g-index

122
ext. papers

4,926
ext. citations

3.9
avg, IF

5.77
L-index

#	Paper	IF	Citations
115	Trends in auto-correlated temperature series. <i>Theoretical and Applied Climatology</i> , 2022 , 147, 1577-1588;		
114	The Slash Power Normal Distribution with Application to Pollution Data. <i>Mathematical Problems in Engineering</i> , 2022 , 2022, 1-11	1.1	
113	A hierarchical Bayesian model for the analysis of space-time air pollutant concentrations and an application to air pollution analysis in Northern China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021 , 35, 2237	3.5	1
112	A novel method for identifying hotspots and forecasting air quality through an adaptive utilization of spatio-temporal information of multiple factors. <i>Science of the Total Environment</i> , 2021 , 759, 143513	10.2	3
111	A Location-and-Form-Based Distance for Geographical Analysis. <i>Annals of the American Association of Geographers</i> , 2021 , 111, 1253-1270	2.6	1
110	Deep neural network compression through interpretability-based filter pruning. <i>Pattern Recognition</i> , 2021 , 119, 108056	7.7	3
109	A georeferenced graph model for geospatial data matching by optimising measures of similarity across multiple scales. <i>International Journal of Geographical Information Science</i> , 2020 , 1-17	4.1	1
108	A comparison study of optimal scale combination selection in generalized multi-scale decision tables. <i>International Journal of Machine Learning and Cybernetics</i> , 2020 , 11, 961-972	3.8	18
107	An Unmixing-Based Bayesian Model for Spatio-Temporal Satellite Image Fusion in Heterogeneous Landscapes. <i>Remote Sensing</i> , 2019 , 11, 324	5	15
106	Analysis of positional uncertainty of road networks in volunteered geographic information with a statistically defined buffer-zone method. <i>International Journal of Geographical Information Science</i> , 2019 , 33, 1807-1828	4.1	3
105	Classical scoring functions for docking are unable to exploit large volumes of structural and interaction data. <i>Bioinformatics</i> , 2019 , 35, 3989-3995	7.2	35
104	Integration of air pollution data collected by mobile sensors and ground-based stations to derive a spatiotemporal air pollution profile of a city. <i>International Journal of Geographical Information Science</i> , 2019 , 33, 2218-2240	4.1	9
103	The impacts of economic structure on China's carbon dioxide emissions: an analysis with reference to other East Asian economies. <i>Climate Policy</i> , 2018 , 18, 1235-1245	5.3	9
102	An integrated web-based air pollution decision support system as a prototype. <i>International Journal of Geographical Information Science</i> , 2018 , 32, 1787-1814	4.1	7
101	The Impact of Protein Structure and Sequence Similarity on the Accuracy of Machine-Learning Scoring Functions for Binding Affinity Prediction. <i>Biomolecules</i> , 2018 , 8,	5.9	32
100	Sparsity-Based Spatiotemporal Fusion via Adaptive Multi-Band Constraints. <i>Remote Sensing</i> , 2018 , 10, 1646	5	1
99	Oscillatory tendency of interevent direction in earthquake sequences. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017 , 478, 120-130	3.3	1

98	Application of extended Dempster-Shafer theory of evidence in accident probability estimation for dangerous goods transportation. <i>Journal of Geographical Systems</i> , 2017 , 19, 249-271	1.8	9
97	A Modular Plug-And-Play Sensor System for Urban Air Pollution Monitoring: Design, Implementation and Evaluation. <i>Sensors</i> , 2017 , 18,	3.8	7
96	The effect of carbon tax on carbon emission abatement and GDP: a case study. <i>Journal of Geographical Systems</i> , 2017 , 19, 399-414	1.8	3
95	A Bayesian Data Fusion Approach to Spatio-Temporal Fusion of Remotely Sensed Images. <i>Remote Sensing</i> , 2017 , 9, 1310	5	47
94	Prediction of air pollutant concentration based on sparse response back-propagation training feedforward neural networks. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 19481-94	5.1	25
93	Granular reducts of formal fuzzy contexts. <i>Knowledge-Based Systems</i> , 2016 , 114, 156-166	7.3	26
92	Interannual variability of the onset of the South China Sea summer monsoon. <i>International Journal of Climatology</i> , 2016 , 36, 550-562	3.5	25
91	Uncertainty analysis of space-time prisms based on the moment-design method. <i>International Journal of Geographical Information Science</i> , 2016 , 30, 1336-1358	4.1	6
90	Improved triangular prism methods for fractal analysis of remotely sensed images. <i>Computers and Geosciences</i> , 2016 , 90, 64-77	4.5	4
89	On the detection of precipitation dependence on temperature. <i>Geophysical Research Letters</i> , 2016 , 43, 4555-4565	4.9	3
88	Modular sensor system (MSS) for urban air pollution monitoring 2016 ,		3
87	High-order Taylor series expansion methods for error propagation in geographic information systems. <i>Journal of Geographical Systems</i> , 2015 , 17, 187-206	1.8	12
86	Different El Niño types and intense typhoons in the Western North Pacific. <i>Climate Dynamics</i> , 2015 , 44, 2965-2977	4.2	31
85	Scaling Behaviors of Global Sea Surface Temperature. <i>Journal of Climate</i> , 2015 , 28, 3122-3132	4.4	19
84	A Survey of Wireless Sensor Network Based Air Pollution Monitoring Systems. <i>Sensors</i> , 2015 , 15, 31392-427	3.27	161
83	A study of urban expansion of prefectural-level cities in South China using night-time light images. <i>International Journal of Remote Sensing</i> , 2015 , 36, 5557-5575	3.1	20
82	Rule acquisition and complexity reduction in formal decision contexts. <i>International Journal of Approximate Reasoning</i> , 2014 , 55, 259-274	3.6	55
81	Relations between granular reduct and dominance reduct in formal contexts. <i>Knowledge-Based Systems</i> , 2014 , 65, 1-11	7.3	36

80	Precipitation extremes in the Yangtze River Basin, China: regional frequency and spatial-temporal patterns. <i>Theoretical and Applied Climatology</i> , 2014 , 116, 447-461	3	40
79	Attribute reductions in object-oriented concept lattices. <i>International Journal of Machine Learning and Cybernetics</i> , 2014 , 5, 789-813	3.8	26
78	Cluster analysis of post-landfall tracks of landfalling tropical cyclones over China. <i>Climate Dynamics</i> , 2013 , 40, 1237-1255	4.2	11
77	Relationships of exponents in two-dimensional multifractal detrended fluctuation analysis. <i>Physical Review E</i> , 2013 , 87, 012921	2.4	18
76	Evaluation of a Spatial Relationship by the Concept of Intrinsic Spatial Distance. <i>Geographical Analysis</i> , 2013 , 45, 380-400	2.9	3
75	Optimal scale selection for multi-scale decision tables. <i>International Journal of Approximate Reasoning</i> , 2013 , 54, 1107-1129	3.6	81
74	An integrated information fusion approach based on the theory of evidence and group decision-making. <i>Information Fusion</i> , 2013 , 14, 410-422	16.7	45
73	Detection of crossover time scales in multifractal detrended fluctuation analysis. <i>Journal of Geographical Systems</i> , 2013 , 15, 115-147	1.8	23
72	Passage method for nonlinear dimensionality reduction of data on multi-cluster manifolds. <i>Pattern Recognition</i> , 2013 , 46, 2175-2186	7.7	5
71	Empirical study of the scaling behavior of the amplitude-frequency distribution of the Hilbert Huang transform and its application in sunspot time series analysis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013 , 392, 1336-1346	3.3	11
70	Variable-precision-dominance-based rough set approach to interval-valued information systems. <i>Information Sciences</i> , 2013 , 244, 75-91	7.7	59
69	Generalized fuzzy rough approximation operators determined by fuzzy implicators. <i>International Journal of Approximate Reasoning</i> , 2013 , 54, 1388-1409	3.6	44
68	A genetic algorithm for multiobjective dangerous goods route planning. <i>International Journal of Geographical Information Science</i> , 2013 , 27, 1073-1089	4.1	26
67	The strong convergence of visual classification method and its applications. <i>Information Sciences</i> , 2013 , 249, 85-95	7.7	1
66	An adaptive compromise programming method for multi-objective path optimization. <i>Journal of Geographical Systems</i> , 2013 , 15, 211-228	1.8	8
65	North Pacific Gyre Oscillation and the occurrence of western North Pacific tropical cyclones. <i>Geophysical Research Letters</i> , 2013 , 40, 5205-5211	4.9	21
64	Detecting Intrinsic Loops Underlying Data Manifold. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2013 , 25, 337-347	4.2	5
63	Using knowledge fusion to analyze avian influenza H5N1 in East and Southeast Asia. <i>PLoS ONE</i> , 2012 , 7, e29617	3.7	6

62	Different El Niño Types and Tropical Cyclone Landfall in East Asia. <i>Journal of Climate</i> , 2012 , 25, 6510-6523	4.4	71
61	A novel web-based system for tropical cyclone analysis and prediction. <i>International Journal of Geographical Information Science</i> , 2012 , 26, 75-97	4.1	6
60	A Theory-Based Cellular Automata for the Simulation of Land-Use Change. ??????????????????. <i>Geographical Analysis</i> , 2011 , 43, 142-171	2.9	6
59	Dependence-space-based attribute reduction in consistent decision tables. <i>Soft Computing</i> , 2011 , 15, 261-268	3.5	12
58	Multi-objective route planning for dangerous goods using compromise programming. <i>Journal of Geographical Systems</i> , 2011 , 13, 249-271	1.8	31
57	Theory and applications of granular labelled partitions in multi-scale decision tables. <i>Information Sciences</i> , 2011 , 181, 3878-3897	7.7	146
56	Temporal Scaling Behavior of Avian Influenza A (H5N1): The Multifractal Detrended Fluctuation Analysis. <i>Annals of the American Association of Geographers</i> , 2011 , 101, 1221-1240		9
55	A new quality assessment criterion for nonlinear dimensionality reduction. <i>Neurocomputing</i> , 2011 , 74, 941-948	5.4	21
54	Empirical mode decomposition and long-range correlation analysis of sunspot time series. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010 , 2010, P12006	1.9	15
53	Multifractal temporally weighted detrended fluctuation analysis and its application in the analysis of scaling behavior in temperature series. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010 , 2010, P06021	1.9	33
52	Approaches to attribute reduction in concept lattices induced by axiomatics. <i>Knowledge-Based Systems</i> , 2010 , 23, 504-511	7.3	69
51	Summary and Outlooks. <i>Advances in Spatial Science</i> , 2010 , 321-327	0.4	
50	Algorithmic Approach to the Identification of Classification Rules or Separation Surface for Spatial Data. <i>Advances in Spatial Science</i> , 2010 , 143-221	0.4	
49	Discovery of Intrinsic Clustering in Spatial Data. <i>Advances in Spatial Science</i> , 2010 , 13-96	0.4	
48	Granular Computing and Knowledge Reduction in Formal Contexts. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2009 , 21, 1461-1474	4.2	206
47	Knowledge Discovery in Spatial Data. <i>Advances in Spatial Science</i> , 2009 ,	0.4	3
46	On Generalized Fuzzy Belief Functions in Infinite Spaces. <i>IEEE Transactions on Fuzzy Systems</i> , 2009 , 17, 385-397	8.3	32
45	Generalized fuzzy rough sets determined by a triangular norm. <i>Information Sciences</i> , 2008 , 178, 3203-3217	13.7	124

44	A rough set approach for the discovery of classification rules in interval-valued information systems. <i>International Journal of Approximate Reasoning</i> , 2008 , 47, 233-246	3.6	136
43	Generalized fuzzy rough approximation operators based on fuzzy coverings. <i>International Journal of Approximate Reasoning</i> , 2008 , 48, 836-856	3.6	165
42	Dependence-space-based attribute reductions in inconsistent decision information systems. <i>International Journal of Approximate Reasoning</i> , 2008 , 49, 623-630	3.6	17
41	Granular computing and dual Galois connection. <i>Information Sciences</i> , 2007 , 177, 5365-5377	7.7	54
40	A rough set approach to the discovery of classification rules in spatial data. <i>International Journal of Geographical Information Science</i> , 2007 , 21, 1033-1058	4.1	52
39	A highly robust estimator for regression models. <i>Pattern Recognition Letters</i> , 2006 , 27, 29-36	4.7	0
38	Modelling for registration of remotely sensed imagery when reference control points contain error. <i>Science in China Series D: Earth Sciences</i> , 2006 , 49, 739-746		4
37	On Generalized Rough Fuzzy Approximation Operators. <i>Lecture Notes in Computer Science</i> , 2006 , 263-284	9	25
36	Knowledge acquisition in incomplete information systems: A rough set approach. <i>European Journal of Operational Research</i> , 2006 , 168, 164-180	5.6	211
35	A Mathematical Morphology Based Scale Space Method for the Mining of Linear Features in Geographic Data. <i>Data Mining and Knowledge Discovery</i> , 2006 , 12, 97-118	5.6	7
34	A New Method for Feature Mining in Remotely Sensed Images. <i>GeoInformatica</i> , 2006 , 10, 295-312	2.5	1
33	A Modification to the New Version of the Price Algorithm for Continuous Global Optimization Problems. <i>Journal of Global Optimization</i> , 2006 , 36, 609-626	1.5	7
32	An uncertainty measure in partition-based fuzzy rough sets. <i>International Journal of General Systems</i> , 2005 , 34, 77-90	2.1	102
31	On characterizations of (I,T)-fuzzy rough approximation operators. <i>Fuzzy Sets and Systems</i> , 2005 , 154, 76-102	3.7	174
30	Variable Programming: A Generalized Minimax Problem. Part I: Models and Theory. <i>Computational Optimization and Applications</i> , 2005 , 30, 229-261	1.4	4
29	Variable Programming: A Generalized Minimax Problem. Part II: Algorithms. <i>Computational Optimization and Applications</i> , 2005 , 30, 263-295	1.4	3
28	ON KNOWLEDGE REDUCTION IN INCONSISTENT DECISION INFORMATION SYSTEMS. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2004 , 12, 651-672	0.8	50
27	An elliptical basis function network for classification of remote sensing images. <i>Journal of Geographical Systems</i> , 2004 , 6, 219-236	1.8	11

26	A general framework for error analysis in measurement-based GIS Part 1: The basic measurement-error model and related concepts. <i>Journal of Geographical Systems</i> , 2004 , 6, 325-354	1.8	40
25	A general framework for error analysis in measurement-based GIS Part 2: The algebra-based probability model for point-in-polygon analysis. <i>Journal of Geographical Systems</i> , 2004 , 6, 355-379	1.8	11
24	A general framework for error analysis in measurement-based GIS Part 3: Error analysis in intersections and overlays. <i>Journal of Geographical Systems</i> , 2004 , 6, 381-402	1.8	14
23	A general framework for error analysis in measurement-based GIS Part 4: Error analysis in length and area measurements. <i>Journal of Geographical Systems</i> , 2004 , 6, 403-428	1.8	17
22	Statistical Test for Local Patterns of Spatial Association. <i>Environment and Planning A</i> , 2003 , 35, 725-744	2.7	27
21	Maximal consistent block technique for rule acquisition in incomplete information systems. <i>Information Sciences</i> , 2003 , 153, 85-106	7.7	182
20	A high-performance feedback neural network for solving convex nonlinear programming problems. <i>IEEE Transactions on Neural Networks</i> , 2003 , 14, 1469-77		29
19	Analysing regional industrialisation in Jiangsu province using geographically weighted regression. <i>Journal of Geographical Systems</i> , 2002 , 4, 233-249	1.8	106
18	Connections between rough set theory and Dempster-Shafer theory of evidence. <i>International Journal of General Systems</i> , 2002 , 31, 405-430	2.1	102
17	A new method for mining regression classes in large data sets. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2001 , 23, 5-21	13.3	19
16	A new gradient-based neural network for solving linear and quadratic programming problems. <i>IEEE Transactions on Neural Networks</i> , 2001 , 12, 1074-83		41
15	Some thoughts on spatial data and structure analysis. <i>Journal of Geographical Systems</i> , 2000 , 2, 107-110	1.8	
14	Clustering by scale-space filtering. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2000 , 22, 1396-1410	13.3	194
13	A NEW ALGORITHM FOR ESTIMATING THE RISK OF NATURAL DISASTERS WITH INCOMPLETE DATA. <i>International Journal of General Systems</i> , 2000 , 29, 175-204	2.1	4
12	Statistical Tests for Spatial Nonstationarity Based on the Geographically Weighted Regression Model. <i>Environment and Planning A</i> , 2000 , 32, 9-32	2.7	264
11	A genetic-algorithms based evolutionary computational neural network for modelling spatial interaction data. <i>Annals of Regional Science</i> , 1998 , 32, 437-458	1.1	40
10	A genetic algorithm for the multiple destination routing problems. <i>IEEE Transactions on Evolutionary Computation</i> , 1998 , 2, 150-161	15.6	62
9	A locational error model for spatial features. <i>International Journal of Geographical Information Science</i> , 1998 , 12, 607-620	4.1	56

8	Point-in-Polygon Analysis Under Certainty and Uncertainty. <i>Geoinformatica</i> , 1997 , 1, 93-114	2.5	13
7	Global annealing genetic algorithm and its convergence analysis. <i>Science in China Series D: Earth Sciences</i> , 1997 , 40, 414-424		8
6	Intelligent Spatial Decision Support Systems. <i>Advances in Spatial Science</i> , 1997 ,	0.4	57
5	FUZZY KNOWLEDGE-BASED SYSTEMS: REVIEWS AND PERSPECTIVES 1995 , 19-39		1
4	An intelligent expert system shell for knowledge-based Geographical Information Systems: 1. The tools. <i>International Journal of Geographical Information Science</i> , 1993 , 7, 189-199	4.1	24
3	An intelligent expert system shell for knowledge-based Geographical Information Systems: 2. Some applications. <i>International Journal of Geographical Information Science</i> , 1993 , 7, 201-213	4.1	12
2	Fuzzy Logic And Knowledge-based Gis. A Prospectus		1
1	Multiscale geographically and temporally weighted regression with a unilateral temporal weighting scheme and its application in the analysis of spatiotemporal characteristics of house prices in Beijing. <i>International Journal of Geographical Information Science</i> , 1-25	4.1	2