Yee Leung

List of Publications by Year
in descending order

120 papers	5,640 citations	94433 37 h-index	79698 73 g-index
122 all docs	122 docs citations	122 times ranked	3330 citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical Tests for Spatial Nonstationarity Based on the Geographically Weighted Regression Model. Environment and Planning A, 2000, 32, 9-32.	3.6	340
2	Maximal consistent block technique for rule acquisition in incomplete information systems. Information Sciences, 2003, 153, 85-106.	6.9	277
3	Knowledge acquisition in incomplete information systems: A rough set approach. European Journal of Operational Research, 2006, 168, 164-180.	5.7	275
4	Granular Computing and Knowledge Reduction in Formal Contexts. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 1461-1474.	5.7	272
5	A Survey of Wireless Sensor Network Based Air Pollution Monitoring Systems. Sensors, 2015, 15, 31392-31427.	3.8	246
6	Clustering by scale-space filtering. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2000, 22, 1396-1410.	13.9	241
7	On characterizations of -fuzzy rough approximation operators. Fuzzy Sets and Systems, 2005, 154, 76-102.	2.7	218
8	Generalized fuzzy rough approximation operators based on fuzzy coverings. International Journal of Approximate Reasoning, 2008, 48, 836-856.	3.3	212
9	Theory and applications of granular labelled partitions in multi-scale decision tables. Information Sciences, 2011, 181, 3878-3897.	6.9	209
10	A rough set approach for the discovery of classification rules in interval-valued information systems. International Journal of Approximate Reasoning, 2008, 47, 233-246.	3.3	181
11	Generalized fuzzy rough sets determined by a triangular norm. Information Sciences, 2008, 178, 3203-3213.	6.9	162
12	Connections between rough set theory and Dempster-Shafer theory of evidence. International Journal of General Systems, 2002, 31, 405-430.	2.5	124
13	Analysing regional industrialisation in Jiangsu province using geographically weighted regression. Journal of Geographical Systems, 2002, 4, 233-249.	3.1	122
14	An uncertainty measure in partition-based fuzzy rough sets. International Journal of General Systems, 2005, 34, 77-90.	2.5	122
15	Optimal scale selection for multi-scale decision tables. International Journal of Approximate Reasoning, 2013, 54, 1107-1129.	3.3	117
16	Different El Niño Types and Tropical Cyclone Landfall in East Asia. Journal of Climate, 2012, 25, 6510-6523.	3.2	93
17	Approaches to attribute reduction in concept lattices induced by axialities. Knowledge-Based Systems, 2010, 23, 504-511.	7.1	92
18	A genetic algorithm for the multiple destination routing problems. IEEE Transactions on Evolutionary Computation, 1998, 2, 150-161.	10.0	88

#	Article	IF	Citations
19	A Bayesian Data Fusion Approach to Spatio-Temporal Fusion of Remotely Sensed Images. Remote Sensing, 2017, 9, 1310.	4.0	82
20	Granular computing and dual Galois connection. Information Sciences, 2007, 177, 5365-5377.	6.9	73
21	A locational error model for spatial features. International Journal of Geographical Information Science, 1998, 12, 607-620.	4.8	71
22	Variable-precision-dominance-based rough set approach to interval-valued information systems. Information Sciences, 2013, 244, 75-91.	6.9	70
23	A rough set approach to the discovery of classification rules in spatial data. International Journal of Geographical Information Science, 2007, 21, 1033-1058.	4.8	69
24	Rule acquisition and complexity reduction in formal decision contexts. International Journal of Approximate Reasoning, 2014, 55, 259-274.	3.3	67
25	ON KNOWLEDGE REDUCTION IN INCONSISTENT DECISION INFORMATION SYSTEMS. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2004, 12, 651-672.	1.9	62
26	An integrated information fusion approach based on the theory of evidence and group decision-making. Information Fusion, 2013, 14, 410-422.	19.1	62
27	Classical scoring functions for docking are unable to exploit large volumes of structural and interaction data. Bioinformatics, 2019, 35, 3989-3995.	4.1	59
28	Generalized fuzzy rough approximation operators determined by fuzzy implicators. International Journal of Approximate Reasoning, 2013, 54, 1388-1409.	3.3	58
29	A new gradient-based neural network for solving linear and quadratic programming problems. IEEE Transactions on Neural Networks, 2001, 12, 1074-1083.	4.2	52
30	A genetic-algorithms based evolutionary computational neural network for modelling spatial interaction dataNeural network for modelling spatial interaction data. Annals of Regional Science, 1998, 32, 437-458.	2.1	50
31	Precipitation extremes in the Yangtze River Basin, China: regional frequency and spatial–temporal patterns. Theoretical and Applied Climatology, 2014, 116, 447-461.	2.8	48
32	The Impact of Protein Structure and Sequence Similarity on the Accuracy of Machine-Learning Scoring Functions for Binding Affinity Prediction. Biomolecules, 2018, 8, 12.	4.0	47
33	A general framework for error analysis in measurement-based GIS Part 1: The basic measurement-error model and related concepts. Journal of Geographical Systems, 2004, 6, 325-354.	3.1	46
34	On Generalized Fuzzy Belief Functions in Infinite Spaces. IEEE Transactions on Fuzzy Systems, 2009, 17, 385-397.	9.8	43
35	Multifractal temporally weighted detrended fluctuation analysis and its application in the analysis of scaling behavior in temperature series. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P06021.	2.3	43
36	Relations between granular reduct and dominance reduct in formal contexts. Knowledge-Based Systems, 2014, 65, 1-11.	7.1	43

#	Article	IF	Citations
37	Multi-objective route planning for dangerous goods using compromise programming. Journal of Geographical Systems, 2011, 13, 249-271.	3.1	38
38	A comparison study of optimal scale combination selection in generalized multi-scale decision tables. International Journal of Machine Learning and Cybernetics, 2020, 11, 961-972.	3.6	38
39	On Generalized Rough Fuzzy Approximation Operators. Lecture Notes in Computer Science, 2006, , 263-284.	1.3	37
40	Different El Niño types and intense typhoons in the Western North Pacific. Climate Dynamics, 2015, 44, 2965-2977.	3.8	37
41	Interannual variability of the onset of the South China Sea summer monsoon. International Journal of Climatology, 2016, 36, 550-562.	3.5	37
42	An intelligent expert system shell for knowledge-based Geographical Information Systems: 1. The tools. International Journal of Geographical Information Science, 1993, 7, 189-199.	4.8	35
43	Detection of crossover time scales in multifractal detrended fluctuation analysis. Journal of Geographical Systems, 2013, 15, 115-147.	3.1	35
44	Prediction of air pollutant concentration based on sparse response back-propagation training feedforward neural networks. Environmental Science and Pollution Research, 2016, 23, 19481-19494.	5.3	35
45	A high-performance feedback neural network for solving convex nonlinear programming problems. IEEE Transactions on Neural Networks, 2003, 14, 1469-1477.	4.2	34
46	Statistical Test for Local Patterns of Spatial Association. Environment and Planning A, 2003, 35, 725-744.	3.6	33
47	Granular reducts of formal fuzzy contexts. Knowledge-Based Systems, 2016, 114, 156-166.	7.1	33
48	A genetic algorithm for multiobjective dangerous goods route planning. International Journal of Geographical Information Science, 2013, 27, 1073-1089.	4.8	32
49	A Modular Plug-And-Play Sensor System for Urban Air Pollution Monitoring: Design, Implementation and Evaluation. Sensors, 2018, 18, 7.	3.8	31
50	A new method for mining regression classes in large data sets. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2001, 23, 5-21.	13.9	28
51	North Pacific Gyre Oscillation and the occurrence of western North Pacific tropical cyclones. Geophysical Research Letters, 2013, 40, 5205-5211.	4.0	28
52	Dependence-space-based attribute reductions in inconsistent decision information systems. International Journal of Approximate Reasoning, 2008, 49, 623-630.	3.3	27
53	Attribute reductions in object-oriented concept lattices. International Journal of Machine Learning and Cybernetics, 2014, 5, 789-813.	3.6	27
54	Empirical study of the scaling behavior of the amplitude–frequency distribution of the Hilbert–Huang transform and its application in sunspot time series analysis. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 1336-1346.	2.6	23

#	Article	IF	Citations
55	A study of urban expansion of prefectural-level cities in South China using night-time light images. International Journal of Remote Sensing, 2015, 36, 5557-5575.	2.9	23
56	A general framework for error analysis in measurement-based GIS Part 4: Error analysis in length and area measurements. Journal of Geographical Systems, 2004, 6, 403-428.	3.1	22
57	A new quality assessment criterion for nonlinear dimensionality reduction. Neurocomputing, 2011, 74, 941-948.	5.9	22
58	Relationships of exponents in two-dimensional multifractal detrended fluctuation analysis. Physical Review E, 2013, 87, 012921.	2.1	20
59	Scaling Behaviors of Global Sea Surface Temperature. Journal of Climate, 2015, 28, 3122-3132.	3.2	20
60	An Unmixing-Based Bayesian Model for Spatio-Temporal Satellite Image Fusion in Heterogeneous Landscapes. Remote Sensing, 2019, 11, 324.	4.0	20
61	Empirical mode decomposition and long-range correlation analysis of sunspot time series. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P12006.	2.3	18
62	High-order Taylor series expansion methods for error propagation in geographic information systems. Journal of Geographical Systems, 2015, 17, 187-206.	3.1	18
63	Deep neural network compression through interpretability-based filter pruning. Pattern Recognition, 2021, 119, 108056.	8.1	18
64	An intelligent expert system shell for knowledge-based Geographical Information Systems: 2. Some applications. International Journal of Geographical Information Science, 1993, 7, 201-213.	4.8	17
65	Point-in-Polygon Analysis Under Certainty and Uncertainty. GeoInformatica, 1997, 1, 93-114.	2.7	17
66	A general framework for error analysis in measurement-based GIS Part 3: Error analysis in intersections and overlays. Journal of Geographical Systems, 2004, 6, 381-402.	3.1	16
67	Cluster analysis of post-landfall tracks of landfalling tropical cyclones over China. Climate Dynamics, 2013, 40, 1237-1255.	3.8	15
68	A novel method for identifying hotspots and forecasting air quality through an adaptive utilization of spatio-temporal information of multiple factors. Science of the Total Environment, 2021, 759, 143513.	8.0	15
69	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. International Journal of Geographical Information Science, 2021, 35, 2262-2286.	4.8	15
70	Dependence-space-based attribute reduction in consistent decision tables. Soft Computing, 2011, 15, 261-268.	3.6	14
71	An elliptical basis function network for classification of remote sensing images. Journal of Geographical Systems, 2004, 6, 219-236.	3.1	13
72	A general framework for error analysis in measurement-based GIS Part 2: The algebra-based probability model for point-in-polygon analysis. Journal of Geographical Systems, 2004, 6, 355-379.	3.1	13

#	Article	IF	Citations
73	Integration of air pollution data collected by mobile sensors and ground-based stations to derive a spatiotemporal air pollution profile of a city. International Journal of Geographical Information Science, 2019, 33, 2218-2240.	4.8	13
74	An integrated web-based air pollution decision support system â€" a prototype. International Journal of Geographical Information Science, 2018, 32, 1787-1814.	4.8	11
75	Temporal Scaling Behavior of Avian Influenza A (H5N1): The Multifractal Detrended Fluctuation Analysis. Annals of the American Association of Geographers, 2011, 101, 1221-1240.	3.0	10
76	Global annealing genetic algorithm and its convergence analysis. Science in China Series D: Earth Sciences, 1997, 40, 414-424.	0.9	9
77	A Mathematical Morphology Based Scale Space Method for the Mining of Linear Features in Geographic Data. Data Mining and Knowledge Discovery, 2006, 12, 97-118.	3.7	9
78	A Modification to the New Version of the Priceâ€™s Algorithm for Continuous Global Optimization Problems. Journal of Global Optimization, 2006, 36, 609-626.	1.8	9
79	Detecting Intrinsic Loops Underlying Data Manifold. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 337-347.	5.7	9
80	Application of extended Dempsterâ€"Shafer theory of evidence in accident probability estimation for dangerous goods transportation. Journal of Geographical Systems, 2017, 19, 249-271.	3.1	9
81	The impacts of economic structure on Chinaâ€™s carbon dioxide emissions: an analysis with reference to other East Asian economies. Climate Policy, 2018, 18, 1235-1245.	5.1	9
82	A novel web-based system for tropical cyclone analysis and prediction. International Journal of Geographical Information Science, 2012, 26, 75-97.	4.8	8
83	Using Knowledge Fusion to Analyze Avian Influenza H5N1 in East and Southeast Asia. PLoS ONE, 2012, 7, e29617.	2.5	8
84	An adaptive compromise programming method for multi-objective path optimization. Journal of Geographical Systems, 2013, 15, 211-228.	3.1	8
85	The effect of carbon tax on carbon emission abatement and GDP: a case study. Journal of Geographical Systems, 2017, 19, 399-414.	3.1	8
86	Modular sensor system (MSS) for urban air pollution monitoring. , 2016, , .		7
87	Uncertainty analysis of spaceâ€"time prisms based on the moment-design method. International Journal of Geographical Information Science, 2016, 30, 1336-1358.	4.8	7
88	A Theory-Based Cellular Automata for the Simulation of Land-Use Change. åŸºäºŽç†è®ºç»†èƒžè‡ªåŠ¨æœºçš„åœŸåœ°å˜©ç"¨å˜åŒ–æ¨¡æ‹, 2011, 43, 142-171.	3.5	6
89	Passage method for nonlinear dimensionality reduction of data on multi-cluster manifolds. Pattern Recognition, 2013, 46, 2175-2186.	8.1	6
90	Improved triangular prism methods for fractal analysis of remotely sensed images. Computers and Geosciences, 2016, 90, 64-77.	4.2	6

#	Article	IF	Citations
91	Analysis of positional uncertainty of road networks in volunteered geographic information with a statistically defined buffer-zone method. International Journal of Geographical Information Science, 2019, 33, 1807-1828.	4.8	6
92	A hierarchical Bayesian model for the analysis of space-time air pollutant concentrations and an application to air pollution analysis in Northern China. Stochastic Environmental Research and Risk Assessment, 2021, 35, 2237-2271.	4.0	6
93	Variable Programming: A Generalized Minimax Problem. Part I: Models and Theory. Computational Optimization and Applications, 2005, 30, 229-261.	1.6	5
94	A georeferenced graph model for geospatial data matching by optimising measures of similarity across multiple scales. International Journal of Geographical Information Science, 2021, 35, 2339-2355.	4.8	5
95	Fuzzy Logic And Knowledge-based Gis. A Prospectus. , 0, , .		4
96	A NEW ALGORITHM FOR ESTIMATING THE RISK OF NATURAL DISASTERS WITH INCOMPLETE DATA. International Journal of General Systems, 2000, 29, 175-204.	2.5	4
97	Variable Programming: A Generalized Minimax Problem. Part II: Algorithms. Computational Optimization and Applications, 2005, 30, 263-295.	1.6	4
98	Modelling for registration of remotely sensed imagery when reference control points contain error. Science in China Series D: Earth Sciences, 2006, 49, 739-746.	0.9	4
99	Evaluation of a Spatial Relationship by the Concept of Intrinsic Spatial Distance. Geographical Analysis, 2013, 45, 380-400.	3.5	4
100	On the detection of precipitation dependence on temperature. Geophysical Research Letters, 2016, 43, 4555-4565.	4.0	4
101	Sparsity-Based Spatiotemporal Fusion via Adaptive Multi-Band Constraints. Remote Sensing, 2018, 10, 1646.	4.0	3
102	Backfitting Estimation for Geographically Weighted Regression Models with Spatial Autocorrelation in the Response. Geographical Analysis, 2022, 54, 357-381.	3.5	3
103	A highly robust estimator for regression models. Pattern Recognition Letters, 2006, 27, 29-36.	4.2	2
104	A New Method for Feature Mining in Remotely Sensed Images. GeoInformatica, 2006, 10, 295-312.	2.7	1
105	The strong convergence of visual classification method and its applications. Information Sciences, 2013, 249, 85-95.	6.9	1
106	Oscillatory tendency of interevent direction in earthquake sequences. Physica A: Statistical Mechanics and Its Applications, 2017, 478, 120-130.	2.6	1
107	A Location-and-Form-Based Distance for Geographical Analysis. Annals of the American Association of Geographers, 2021, 111, 1253-1270.	2.2	1
108	IDENTIFICATION OF SEISMIC ACTIVITIES THROUGH VISUALIZATION AND SCALE-SPACE FILTERING. , 2006, , .		1

#	Article	IF	Citations
109	FUZZY KNOWLEDGE-BASED SYSTEMS: REVIEWS AND PERSPECTIVES. , 1995, , 19-39.		1
110	Trends in auto-correlated temperature series. Theoretical and Applied Climatology, 2022, 147, 1577-1588.	2.8	1
111	Some thoughts on spatial data and structure analysis. Journal of Geographical Systems, 2000, 2, 107-110.	3.1	0
112	Image classification by support vector machines. , 0, , .		0
113	Guest editorial: Systems modelling across geography's interface. Geo Journal, 2004, 59, 167.	3.1	0
114	Unidimensional scaling classifier and its application to remotely sensed data. , 0, , .		0
115	The Minimal Sets of Axioms Characterizing Rough Fuzzy Approximation Operators. , 2006, , .		0
116	A Rough Set Approach for the Discovery of Classification Rules in Interval-Valued Information Systems. SSRN Electronic Journal, 2008, , .	0.4	0
117	Summary and Outlooks. Advances in Spatial Science, 2010, , 321-327.	0.6	0
118	Algorithmic Approach to the Identification of Classification Rules or Separation Surface for Spatial Data. Advances in Spatial Science, 2010, , 143-221.	0.6	0
119	Discovery of Intrinsic Clustering in Spatial Data. Advances in Spatial Science, 2010, , 13-96.	0.6	0
120	The Slash Power Normal Distribution with Application to Pollution Data. Mathematical Problems in Engineering, 2022, 2022, 1-11.	1.1	0