

Weidong Li

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4577821/publications.pdf>

Version: 2024-02-01

114
papers

3,151
citations

159573

30
h-index

175241

52
g-index

115
all docs

115
docs citations

115
times ranked

2940
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing street-level urban greenery using Google Street View and a modified green view index. <i>Urban Forestry and Urban Greening</i> , 2015, 14, 675-685.	5.3	530
2	Semantic Segmentation of Urban Buildings from VHR Remote Sensing Imagery Using a Deep Convolutional Neural Network. <i>Remote Sensing</i> , 2019, 11, 1774.	4.0	146
3	Who lives in greener neighborhoods? The distribution of street greenery and its association with residents' socioeconomic conditions in Hartford, Connecticut, USA. <i>Urban Forestry and Urban Greening</i> , 2015, 14, 751-759.	5.3	145
4	Predictive mapping of soil total nitrogen at a regional scale: A comparison between geographically weighted regression and cokriging. <i>Applied Geography</i> , 2013, 42, 73-85.	3.7	132
5	Spatially non-stationary relationships between urban residential land price and impact factors in Wuhan city, China. <i>Applied Geography</i> , 2016, 68, 48-56.	3.7	103
6	Does the Visibility of Greenery Increase Perceived Safety in Urban Areas? Evidence from the Place Pulse 1.0 Dataset. <i>ISPRS International Journal of Geo-Information</i> , 2015, 4, 1166-1183.	2.9	80
7	Markov Chain Random Fields for Estimation of Categorical Variables. <i>Mathematical Geosciences</i> , 2007, 39, 321-335.	0.9	79
8	Analyzing land use structure efficiency with carbon emissions: A case study in the Middle Reaches of the Yangtze River, China. <i>Journal of Cleaner Production</i> , 2020, 274, 123076.	9.3	74
9	Parcel-based urban land use classification in megacity using airborne LiDAR, high resolution orthoimagery, and Google Street View. <i>Computers, Environment and Urban Systems</i> , 2017, 64, 215-228.	7.1	72
10	PM2.5-bound heavy metals from the major cities in China: Spatiotemporal distribution, fuzzy exposure assessment and health risk management. <i>Journal of Cleaner Production</i> , 2021, 286, 124967.	9.3	66
11	Environmental inequities in terms of different types of urban greenery in Hartford, Connecticut. <i>Urban Forestry and Urban Greening</i> , 2016, 18, 163-172.	5.3	59
12	Restoration of clouded pixels in multispectral remotely sensed imagery with cokriging. <i>International Journal of Remote Sensing</i> , 2009, 30, 2173-2195.	2.9	56
13	Building block level urban land-use information retrieval based on Google Street View images. <i>GIScience and Remote Sensing</i> , 2017, 54, 819-835.	5.9	56
14	Analysis and Prediction of Land Use Changes Related to Invasive Species and Major Driving Forces in the State of Connecticut. <i>Land</i> , 2016, 5, 25.	2.9	49
15	Automatic search of geospatial features for disaster and emergency management. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2010, 12, 409-418.	2.8	48
16	Two-dimensional Markov Chain Simulation of Soil Type Spatial Distribution. <i>Soil Science Society of America Journal</i> , 2004, 68, 1479-1490.	2.2	47
17	The Roles of Web Feature and Web Map Services in Real-time Geospatial Data Sharing for Time-critical Applications. <i>Cartography and Geographic Information Science</i> , 2005, 32, 269-283.	3.0	47
18	Comparison of Geographically Weighted Regression and Regression Kriging for Estimating the Spatial Distribution of Soil Organic Matter. <i>GIScience and Remote Sensing</i> , 2012, 49, 915-932.	5.9	47

#	ARTICLE	IF	CITATIONS
19	Using Deep Learning to Identify Utility Poles with Crossarms and Estimate Their Locations from Google Street View Images. <i>Sensors</i> , 2018, 18, 2484.	3.8	45
20	Unprecedented Temporary Reduction in Global Air Pollution Associated with COVID-19 Forced Confinement: A Continental and City Scale Analysis. <i>Remote Sensing</i> , 2020, 12, 2420.	4.0	45
21	Towards logic-based geospatial feature discovery and integration using web feature service and geospatial semantic web. <i>International Journal of Geographical Information Science</i> , 2010, 24, 903-923.	4.8	44
22	Analyzing horizontal and vertical urban expansions in three East Asian megacities with the SS-coMCRF model. <i>Landscape and Urban Planning</i> , 2018, 177, 114-127.	7.5	44
23	Assessing the risk costs in delineating soil nickel contamination using sequential Gaussian simulation and transfer functions. <i>Ecological Informatics</i> , 2013, 13, 99-105.	5.2	43
24	Detecting horizontal and vertical urban growth from medium resolution imagery and its relationships with major socioeconomic factors. <i>International Journal of Remote Sensing</i> , 2017, 38, 3704-3734.	2.9	40
25	A Random-Path Markov Chain Algorithm for Simulating Categorical Soil Variables from Random Point Samples. <i>Soil Science Society of America Journal</i> , 2007, 71, 656-668.	2.2	39
26	The framework of a geospatial semantic web-based spatial decision support system for Digital Earth. <i>International Journal of Digital Earth</i> , 2010, 3, 111-134.	3.9	37
27	Spatial distribution and ecological risk assessment of trace metals in urban soils in Wuhan, central China. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 556.	2.7	37
28	Integrating multi-agent evacuation simulation and multi-criteria evaluation for spatial allocation of urban emergency shelters. <i>International Journal of Geographical Information Science</i> , 2018, 32, 1884-1910.	4.8	36
29	Transiograms for Characterizing Spatial Variability of Soil Classes. <i>Soil Science Society of America Journal</i> , 2007, 71, 881-893.	2.2	35
30	Markov-chain simulation of soil textural profiles. <i>Geoderma</i> , 1999, 92, 37-53.	5.1	30
31	Spatial Distribution and Uncertainty Assessment of Potential Ecological Risks of Heavy Metals in Soil Using Sequential Gaussian Simulation. <i>Human and Ecological Risk Assessment (HERA)</i> , 2014, 20, 764-778.	3.4	30
32	Bayesian Markov Chain Random Field Cosimulation for Improving Land Cover Classification Accuracy. <i>Mathematical Geosciences</i> , 2015, 47, 123-148.	2.4	29
33	Evaluating the Use of DMSP/OLS Nighttime Light Imagery in Predicting PM2.5 Concentrations in the Northeastern United States. <i>Remote Sensing</i> , 2017, 9, 620.	4.0	29
34	Temporal variation in the effects of impact factors on residential land prices. <i>Applied Geography</i> , 2020, 114, 102124.	3.7	29
35	Spatiotemporal Effects of Main Impact Factors on Residential Land Price in Major Cities of China. <i>Sustainability</i> , 2017, 9, 2050.	3.2	27
36	An explorative study on the proximity of buildings to green spaces in urban areas using remotely sensed imagery. <i>Annals of GIS</i> , 2014, 20, 193-203.	3.1	26

#	ARTICLE	IF	CITATIONS
37	Markov Chain Modeling of Multinomial Land-Cover Classes. <i>GIScience and Remote Sensing</i> , 2005, 42, 1-18.	5.9	25
38	A Fixed-Path Markov Chain Algorithm for Conditional Simulation of Discrete Spatial Variables. <i>Mathematical Geosciences</i> , 2007, 39, 159-176.	0.9	24
39	Assessing the spatial uncertainty in soil nitrogen mapping through stochastic simulations with categorical land use information. <i>Ecological Informatics</i> , 2013, 16, 1-9.	5.2	23
40	Correction of in-situ portable X-ray fluorescence (PXRF) data of soil heavy metal for enhancing spatial prediction. <i>Environmental Pollution</i> , 2019, 254, 112993.	7.5	22
41	Effect of Land Use Types on the Spatial Prediction of Soil Nitrogen. <i>GIScience and Remote Sensing</i> , 2012, 49, 397-411.	5.9	21
42	Linear interpolation and joint model fitting of experimental transiograms for Markov chain simulation of categorical spatial variables. <i>International Journal of Geographical Information Science</i> , 2010, 24, 821-839.	4.8	20
43	Spatially Nonstationary Relationships between Copper Accumulation in Rice Grain and Some Related Soil Properties in Paddy Fields at a Regional Scale. <i>Soil Science Society of America Journal</i> , 2014, 78, 1765-1774.	2.2	20
44	Application of Transiograms to Markov Chain Simulation and Spatial Uncertainty Assessment of Land-Cover Classes. <i>GIScience and Remote Sensing</i> , 2005, 42, 297-319.	5.9	19
45	A single-chain-based multidimensional Markov chain model for subsurface characterization. <i>Environmental and Ecological Statistics</i> , 2008, 15, 157-174.	3.5	19
46	Parcel-level mapping of crops in a smallholder agricultural area: A case of central China using single-temporal VHSR imagery. <i>Computers and Electronics in Agriculture</i> , 2020, 175, 105581.	7.7	19
47	A Generalized Markov Chain Approach for Conditional Simulation of Categorical Variables from Grid Samples. <i>Transactions in GIS</i> , 2006, 10, 651-669.	2.3	18
48	Modeling fine-scale residential land price distribution: An experimental study using open data and machine learning. <i>Applied Geography</i> , 2021, 129, 102442.	3.7	18
49	Assessing the pollution risk of soil Chromium based on loading capacity of paddy soil at a regional scale. <i>Scientific Reports</i> , 2016, 5, 18451.	3.3	16
50	Improving Object-Based Land Use/Cover Classification from Medium Resolution Imagery by Markov Chain Geostatistical Post-Classification. <i>Land</i> , 2018, 7, 31.	2.9	16
51	APPLICATION OF THE MARKOV CHAIN THEORY TO DESCRIBE SPATIAL DISTRIBUTION OF TEXTURAL LAYERS. <i>Soil Science</i> , 1997, 162, 672-683.	0.9	16
52	A Markov Chain Geostatistical Framework for Land-Cover Classification With Uncertainty Assessment Based on Expert-Interpreted Pixels From Remotely Sensed Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 2983-2992.	6.3	14
53	Land cover post-classifications by Markov chain geostatistical cosimulation based on pre-classifications by different conventional classifiers. <i>International Journal of Remote Sensing</i> , 2016, 37, 926-949.	2.9	14
54	Towards Improving Query Performance of Web Feature Services (WFS) for Disaster Response. <i>ISPRS International Journal of Geo-Information</i> , 2013, 2, 67-81.	2.9	13

#	ARTICLE	IF	CITATIONS
55	Application of geographically weighted regression to fill gaps in SLC-off Landsat ETM+ satellite imagery. <i>International Journal of Remote Sensing</i> , 2014, 35, 7650-7672.	2.9	13
56	Incorporating Spectral Similarity Into Markov Chain Geostatistical Cosimulation for Reducing Smoothing Effect in Land Cover Postclassification. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 1082-1095.	4.9	13
57	Geospatial Semantic Web. , 2015, , .		12
58	A parallel approach for improving Geo-SPARQL query performance. <i>International Journal of Digital Earth</i> , 2015, 8, 383-402.	3.9	12
59	Prediction of Land Use Change in Long Island Sound Watersheds Using Nighttime Light Data. <i>Land</i> , 2016, 5, 44.	2.9	12
60	Evaluation of Driving Forces of Land Use and Land Cover Change in New England Area by a Mixed Method. <i>ISPRS International Journal of Geo-Information</i> , 2020, 9, 350.	2.9	12
61	Spatio-Temporal Nonstationary Effects of Impact Factors on Industrial Land Price in Industrializing Cities of China. <i>Sustainability</i> , 2020, 12, 2792.	3.2	11
62	Comparison of Three Methods for Soil Fertility Quality Spatial Simulation with Uncertainty Assessment. <i>Soil Science Society of America Journal</i> , 2013, 77, 2182-2191.	2.2	10
63	A Markov Chain-Based Probability Vector Approach for Modeling Spatial Uncertainties of Soil Classes. <i>Soil Science Society of America Journal</i> , 2005, 69, 1931-1941.	2.2	10
64	Transformation of Transportation Data Models from Unified Modeling Language to Web Ontology Language. <i>Transportation Research Record</i> , 2008, 2064, 81-89.	1.9	9
65	Estimating threshold-exceeding probability maps of environmental variables with Markov chain random fields. <i>Stochastic Environmental Research and Risk Assessment</i> , 2010, 24, 1113-1126.	4.0	9
66	Modeling experimental cross-transiograms of neighboring landscape categories with the gamma distribution. <i>International Journal of Geographical Information Science</i> , 2012, 26, 599-620.	4.8	9
67	County-Scale Spatial Variability of Macronutrient Availability Ratios in Paddy Soils. <i>Applied and Environmental Soil Science</i> , 2014, 2014, 1-10.	1.7	9
68	ParSymG: a parallel clustering approach for unsupervised classification of remotely sensed imagery. <i>International Journal of Digital Earth</i> , 2017, 10, 471-489.	3.9	9
69	Phenology-based decision tree classification of rice-crayfish fields from Sentinel-2 imagery in Qianjiang, China. <i>International Journal of Remote Sensing</i> , 2021, 42, 8124-8144.	2.9	9
70	Effect of spatial variation of textural layers on regional field water balance. <i>Water Resources Research</i> , 2001, 37, 1209-1219.	4.2	8
71	A comparative study of nonlinear Markov chain models for conditional simulation of multinomial classes from regular samples. <i>Stochastic Environmental Research and Risk Assessment</i> , 2008, 22, 217-230.	4.0	8
72	Updating Categorical Soil Maps Using Limited Survey Data by Bayesian Markov Chain Cosimulation. <i>Scientific World Journal</i> , The, 2013, 2013, 1-13.	2.1	8

#	ARTICLE	IF	CITATIONS
73	Towards an interoperable online volunteered geographic information system for disaster response. <i>Journal of Spatial Science</i> , 2015, 60, 257-275.	1.5	8
74	Three-dimensional mapping of clay content in alluvial soils using hygroscopic water content. <i>Environmental Earth Sciences</i> , 2015, 73, 4339-4346.	2.7	8
75	A Map-Reduce based parallel approach for improving query performance in a geospatial semantic web for disaster response. <i>Earth Science Informatics</i> , 2015, 8, 499-509.	3.2	8
76	Modelling building proximity to greenery in a three-dimensional perspective using multi-source remotely sensed data. <i>Journal of Spatial Science</i> , 2016, 61, 389-403.	1.5	8
77	Estimating the Impacts of Proximity to Public Transportation on Residential Property Values: An Empirical Analysis for Hartford and Stamford Areas, Connecticut. <i>ISPRS International Journal of Geo-Information</i> , 2021, 10, 44.	2.9	8
78	Some further clarification on Markov chain random fields and transiograms. <i>International Journal of Geographical Information Science</i> , 2013, 27, 423-430.	4.8	7
79	The transiogram as a graphic metric for characterizing the spatial patterns of landscapes. <i>Landscape Ecology</i> , 2019, 34, 2103-2121.	4.2	7
80	Estimating the Wet-End Section of Soil Water Retention Curve by using the Dry-End Section. <i>Soil Science Society of America Journal</i> , 2014, 78, 1878-1883.	2.2	6
81	Parcel feature data derived from Google Street View images for urban land use classification in Brooklyn, New York City. <i>Data in Brief</i> , 2017, 12, 175-179.	1.0	6
82	Markov chain random fields in the perspective of spatial Bayesian networks and optimal neighborhoods for simulation of categorical fields. <i>Computational Geosciences</i> , 2019, 23, 1087-1106.	2.4	6
83	Improving Parcel-Level Mapping of Smallholder Crops from VHSR Imagery: An Ensemble Machine-Learning-Based Framework. <i>Remote Sensing</i> , 2021, 13, 2146.	4.0	6
84	Landuse and Land Cover Change in the Lunan Stone Forest, China. <i>Acta Carsologica</i> , 2006, 32, .	0.7	6
85	Comparing a Fixed-Path Markov Chain Geostatistical Algorithm with Sequential Indicator Simulation in Categorical Variable Simulation from Regular Samples. <i>GIScience and Remote Sensing</i> , 2007, 44, 251-266.	5.9	5
86	Spatial uncertainty of joint health risk of multiple trace metals in rice grain in Jiaxing city, China. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 120-130.	3.5	5
87	Predicting soil organic matter content in a plain-to-hill transition belt using geographically weighted regression with stratification. <i>Archives of Agronomy and Soil Science</i> , 2019, 65, 1745-1757.	2.6	5
88	Estimating the Pollution Risk of Cadmium in Soil Using a Composite Soil Environmental Quality Standard. <i>Scientific World Journal</i> , The, 2014, 2014, 1-9.	2.1	4
89	Restoration of the missing pixel information caused by contrails in multispectral remotely sensed imagery. <i>Journal of Applied Remote Sensing</i> , 2014, 8, 083698.	1.3	4
90	Predicting land use/cover change in Long Island Sound Watersheds and its effect on invasive species: a case study for glossy buckthorn. <i>Annals of GIS</i> , 2018, 24, 83-97.	3.1	4

#	ARTICLE	IF	CITATIONS
91	A framework of experimental transiogram modelling for Markov chain geostatistical simulation of landscape categories. <i>Computers, Environment and Urban Systems</i> , 2019, 73, 16-26.	7.1	4
92	Parallel computing solutions for Markov chain spatial sequential simulation of categorical fields. <i>International Journal of Digital Earth</i> , 2019, 12, 566-582.	3.9	4
93	Optimization of urban land cover classification using an improved Elephant Herding Optimization algorithm and random forest classifier. <i>International Journal of Remote Sensing</i> , 2021, 42, 5741-5763.	2.9	4
94	Semantic Segmentation of Urban Buildings from VHR Remotely Sensed Imagery Using Attention-Based CNN. , 2020, , .		4
95	Analyzing land use and land cover change patterns and population dynamics of fast-growing US cities: Evidence from Collin County, Texas. <i>Remote Sensing Applications: Society and Environment</i> , 2022, , 100804.	1.5	4
96	Ecophysiological Factors on Phytic Acid Concentration in Soybean Seed. <i>Crop Science</i> , 2013, 53, 2195-2201.	1.8	3
97	Conceptual Frameworks of Geospatial Semantic Web. , 2015, , 35-56.		3
98	Adaptive and Optimized RDF Query Interface for Distributed WFS Data. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 108.	2.9	3
99	Comments on "Combining spatial transition probabilities for stochastic simulation of categorical fields" with communications on some issues related to Markov chain geostatistics. <i>International Journal of Geographical Information Science</i> , 2012, 26, 1725-1739.	4.8	2
100	Comments on "An efficient maximum entropy approach for categorical variable prediction" by D. Allard, D. D'Or & R. Froidevaux. <i>European Journal of Soil Science</i> , 2012, 63, 120-124.	3.9	2
101	Geospatial Data Interoperability, Geography Markup Language (GML), Scalable Vector Graphics (SVG), and Geospatial Web Services. , 2015, , 1-33.		2
102	An interoperable spatial decision support system based on geospatial semantic web technologies. , 2008, , .		1
103	Current and Future Challenges of Geospatial Semantic Web. , 2015, , 167-189.		1
104	Spatial assessment of soil nitrogen availability and varying effects of related main soil factors on soil available nitrogen. <i>Environmental Sciences: Processes and Impacts</i> , 2016, 18, 1449-1457.	3.5	1
105	Potential application of DMSP/OLS nighttime light data for estimating ground-level PM _{2.5} concentrations. , 2016, , .		1
106	A middle-insertion algorithm for Markov chain simulation of soil layering. , 2007, , .		0
107	Simulating the spatial distribution of clay layer occurrence depth in alluvial soils with a Markov chain geostatistical approach. <i>Environmetrics</i> , 2010, 21, 21-32.	1.4	0
108	Integration of categorical information of land use maps in spatial prediction of soil available Cu in Hanchuan county, China. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
109	Risk assessment of soil Cd exceedance in the Wuhan Donghu High-tech Developing Zone by disjunctive kriging. , 2011, , .		0
110	Volunteered Geographic Information (VGI) systems and their interactions with Geospatial Semantic Web. , 2015, , 117-136.		0
111	Ontology languages and Geospatial Semantic Web. , 2015, , 57-88.		0
112	Comments on "Spatial hidden Markov chain models for estimation of petroleum reservoir categorical variables" Journal of Petroleum Exploration and Production, 2017, 7, 905-909.	2.4	0
113	Improving geospatial query performance of an interoperable geographic situation awareness system for disaster response. Transactions in GIS, 2020, 24, 508-525.	2.3	0
114	Ontology Data Query in Geospatial Semantic Web. , 2015, , 89-115.		0