Giorgos Mountrakis

List of Publications by Year
in descending order

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56 papers	4,528 citations	257450 24 h-index	175258 52 g-index
56 all docs	56 docs citations	56 times ranked	5723 citing authors

#	Article	IF	Citations
1	Support vector machines in remote sensing: A review. ISPRS Journal of Photogrammetry and Remote Sensing, 2011, 66, 247-259.	11.1	2,410
2	A meta-analysis of remote sensing research on supervised pixel-based land-cover image classification processes: General guidelines for practitioners and future research. Remote Sensing of Environment, 2016, 177, 89-100.	11.0	412
3	Spatial wildlife-vehicle collision models: A review of current work and its application to transportation mitigation projects. Journal of Environmental Management, 2011, 92, 1074-1082.	7.8	209
4	An overview of 21 global and 43 regional land-cover mapping products. International Journal of Remote Sensing, 2015, 36, 5309-5335.	2.9	194
5	Effect of classifier selection, reference sample size, reference class distribution and scene heterogeneity in per-pixel classification accuracy using 26 Landsat sites. Remote Sensing of Environment, 2018, 204, 648-658.	11.0	125
6	Urban Growth Prediction: A Review of Computational Models and Human Perceptions. Journal of Geographic Information System, 2012, 04, 555-587.	0.5	103
7	Mapping per-pixel predicted accuracy of classified remote sensing images. Remote Sensing of Environment, 2017, 191, 156-167.	11.0	62
8	Assessing the impact of training sample selection on accuracy of an urban classification: a case study in Denver, Colorado. International Journal of Remote Sensing, 2014, 35, 2067-2081.	2.9	60
9	A super-resolution mapping method using local indicator variograms. International Journal of Remote Sensing, 2012, 33, 7747-7773.	2.9	56
10	Meta-analysis of deep neural networks in remote sensing: A comparative study of mono-temporal classification to support vector machines. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 152, 192-210.	11.1	54
11	An artificial immune network approach to multi-sensor land use/land cover classification. Remote Sensing of Environment, 2011, 115, 600-614.	11.0	52
12	Multiâ€scale spatiotemporal analyses of mooseâ€“vehicle collisions: a case study in northern Vermont. International Journal of Geographical Information Science, 2009, 23, 1389-1412.	4.8	47
13	Assessing integration of intensity, polarimetric scattering, interferometric coherence and spatial texture metrics in PALSAR-derived land cover classification. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 98, 70-84.	11.1	47
14	Integrating intermediate inputs from partially classified images within a hybrid classification framework: An impervious surface estimation example. Remote Sensing of Environment, 2010, 114, 1220-1229.	11.0	44
15	An empirical comparison of interpolation methods for MODIS 8-day land surface temperature composites across the conterminous Unites States. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 142, 137-150.	11.1	44
16	Beech bark disease: spatial patterns of thicket formation and disease spread in an aftermath forest in the northeastern United States. Canadian Journal of Forest Research, 2014, 44, 1042-1050.	1.7	43
17	Glacial lake inventory and lake outburst potential in Uzbekistan. Science of the Total Environment, 2017, 592, 228-242.	8.0	41
18	Developing a multi-network urbanization model: A case study of urban growth in Denver, Colorado. International Journal of Geographical Information Science, 2011, 25, 229-253.	4.8	40

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19	Enhancing and replacing spectral information with intermediate structural inputs: A case study on impervious surface detection. Remote Sensing of Environment, 2011, 115, 1162-1170.	11.0	35
20	Sustainable Development under Population Pressure: Lessons from Developed Land Consumption in the Conterminous U.S.. PLoS ONE, 2015, 10, e0119675.	2.5	34
21	Accuracy assessment of land cover/land use classifiers in dry and humid areas of Iran. Environmental Monitoring and Assessment, 2015, 187, 641.	2.7	30
22	A linearly approximated iterative Gaussian decomposition method for waveform LiDAR processing. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 129, 200-211.	11.1	29
23	A Meta-Analysis on Harmful Algal Bloom (HAB) Detection and Monitoring: A Remote Sensing Perspective. Remote Sensing, 2021, 13, 4347.	4.0	28
24	An integrated monitoring/modeling framework for assessing humanâ€“nature interactions in urbanizing watersheds: Wappinger and Onondaga Creek watersheds, New York, USA. Environmental Modelling and Software, 2012, 32, 1-15.	4.5	27
25	Linking MODIS-derived forest and cropland land cover 2011 estimations to socioeconomic and environmental indicators for the European Unionâ€™s 28 countries. GIScience and Remote Sensing, 2016, 53, 122-146.	5.9	24
26	Inquiry-Based Learning in Remote Sensing: A Space Balloon Educational Experiment. Journal of Geography in Higher Education, 2012, 36, 385-401.	2.6	22
27	Developing Collaborative Classifiers using an Expert-based Model. Photogrammetric Engineering and Remote Sensing, 2009, 75, 831-843.	0.6	21
28	Integrating Traditional Ecological Knowledge and Remote Sensing for Monitoring Rangeland Dynamics in the Altai Mountain Region. Environmental Management, 2019, 64, 40-51.	2.7	21
29	Predicting individual pixel error in remote sensing soft classification. Remote Sensing of Environment, 2017, 199, 401-414.	11.0	19
30	Fusion of optical, radar and waveform LiDAR observations for land cover classification. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 187, 171-190.	11.1	17
31	Integration of urban growth modelling products with image-based urban change analysis. International Journal of Remote Sensing, 2013, 34, 5468-5486.	2.9	16
32	Converting local spectral and spatial information from a priori classifiers into contextual knowledge for impervious surface classification. ISPRS Journal of Photogrammetry and Remote Sensing, 2011, 66, 579-587.	11.1	15
33	Deep learning for remotely sensed data. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 145, 1-2.	11.1	14
34	Assessing reference dataset representativeness through confidence metrics based on information density. ISPRS Journal of Photogrammetry and Remote Sensing, 2013, 78, 129-147.	11.1	13
35	A Spatially Heterogeneous Expert Based (SHEB) Urban Growth Model using Model Regionalization. Journal of Geographic Information System, 2011, 03, 195-210.	0.5	13
36	An accurate and computationally efficient algorithm for ground peak identification in large footprint waveform LiDAR data. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 95, 81-92.	11.1	12

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37	Implications of Classification of Methodological Decisions in Flooding Analysis from Hurricane Katrina. Remote Sensing, 2012, 4, 3877-3891.	4.0	11
38	Impervious surface extraction in imbalanced datasets: integrating partial results and multi-temporal information in an iterative one-class classifier. International Journal of Remote Sensing, 2017, 38, 43-63.	2.9	11
39	Estimation of above-ground forest biomass using metrics based on Gaussian decomposition of waveform lidar data. International Journal of Remote Sensing, 2015, 36, 1871-1889.	2.9	9
40	Estimation and Prediction of Grassland Cover in Western Mongolia Using MODIS-Derived Vegetation Indices. Rangeland Ecology and Management, 2017, 70, 723-729.	2.3	9
41	<title>Automated spatiotemporal change detection in digital aerial imagery</title>. , 2000, , .		8
42	Ground peak identification in dense shrub areas using large footprint waveform LiDAR and Landsat images. International Journal of Digital Earth, 2015, 8, 805-824.	3.9	6
43	Rangeland vegetation dynamics in the Altai mountain region of Mongolia, Russia, Kazakhstan and China: effects of climate, topography, and socio-political context for livestock herding practices. Environmental Research Letters, 2019, 14, 104017.	5.2	6
44	Multi-modal knowledge base generation from very high resolution satellite imagery for habitat mapping. European Journal of Remote Sensing, 2016, 49, 1033-1060.	3.5	5
45	Forest dynamics in the U.S. indicate disproportionate attrition in western forests, rural areas and public lands. PLoS ONE, 2017, 12, e0171383.	2.5	5
46	A multiprocess model of adaptable complexity for impervious surface detection. International Journal of Remote Sensing, 2012, 33, 365-381.	2.9	4
47	Learning Similarity with Fuzzy Functions of Adaptable Complexity. Lecture Notes in Computer Science, 2003, , 412-429.	1.3	3
48	Adaptable User Profiles for Intelligent Geospatial Queries. Transactions in GIS, 2005, 9, 561-583.	2.3	3
49	Integrating Local and Global Error Statistics for Multi-Scale RBF Network Training: An Assessment on Remote Sensing Data. PLoS ONE, 2012, 7, e40093.	2.5	3
50	Relative importance analysis of Landsat, waveform LIDAR and PALSAR inputs for deciduous biomass estimation. European Journal of Remote Sensing, 2016, 49, 795-807.	3.5	3
51	The interacting effects of image acquisition date, number of images, classifier, and number of training samples on accuracy of binary classification of impervious cover. Remote Sensing Letters, 2018, 9, 189-198.	1.4	3
52	Land cover dynamics and accounts for European Union 2001-2011. Proceedings of SPIE, 2015, , .	0.8	2
53	A Differential Spatio-temporal Model: Primitives and Operators. , 2002, , 255-268.		2
54	Towards daily maximum heat index estimation across the conterminous United States using satellite-derived products. International Journal of Remote Sensing, 2022, 43, 2861-2884.	2.9	2

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55	Combination of Band Selection and Weighted Spatial-Spectral Method for Hyperspectral Image Classification. , 2018, , .		0
56	Moving towards Personalized Geospatial Queries. Journal of Geographic Information System, 2011, 03, 334-344.	0.5	0