Mikhail Kanevski

List of Publications by Year
in descending order

76 papers	2,836 citations	236612 25 h-index	189595 50 g-index
83 all docs	83 docs citations	83 times ranked	2930 citing authors

#	Article	IF	Citations
1	A Survey of Active Learning Algorithms for Supervised Remote Sensing Image Classification. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 606-617.	7.3	439
2	Machine Learning Feature Selection Methods for Landslide Susceptibility Mapping. Mathematical Geosciences, 2014, 46, 33-57.	1.4	209
3	Supervised change detection in VHR images using contextual information and support vector machines. International Journal of Applied Earth Observation and Geoinformation, 2013, 20, 77-85.	1.4	204
4	Learning Relevant Image Features With Multiple-Kernel Classification. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 3780-3791.	2.7	192
5	Semisupervised Transfer Component Analysis for Domain Adaptation in Remote Sensing Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3550-3564.	2.7	171
6	Classification of Very High Spatial Resolution Imagery Using Mathematical Morphology and Support Vector Machines. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 3866-3879.	2.7	164
7	Wildfire susceptibility mapping: Deterministic vs. stochastic approaches. Environmental Modelling and Software, 2018, 101, 194-203.	1.9	100
8	Unsupervised Change Detection With Kernels. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 1026-1030.	1.4	80
9	Multifractal analysis of the time series of daily means of wind speed in complex regions. Chaos, Solitons and Fractals, 2018, 109, 118-127.	2.5	64
10	SVM-Based Boosting of Active Learning Strategies for Efficient Domain Adaptation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 1335-1343.	2.3	63
11	A novel framework for spatio-temporal prediction of environmental data using deep learning. Scientific Reports, 2020, 10, 22243.	1.6	60
12	Data-driven mapping of the potential mountain permafrost distribution. Science of the Total Environment, 2017, 590-591, 370-380.	3.9	54
13	Extreme Learning Machines for spatial environmental data. Computers and Geosciences, 2015, 85, 64-73.	2.0	44
14	Power spectrum and multifractal detrended fluctuation analysis of high-frequency wind measurements in mountainous regions. Applied Energy, 2016, 162, 1052-1061.	5.1	43
15	Scan statistics analysis of forest fire clusters. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 1689-1694.	1.7	41
16	Support-Based Implementation of Bayesian Data Fusion for Spatial Enhancement: Applications to ASTER Thermal Images. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 598-602.	1.4	39
17	Fuzzy definition of Rural Urban Interface: An application based on land use change scenarios in Portugal. Environmental Modelling and Software, 2018, 104, 171-187.	1.9	38
18	Spatial prediction of monthly wind speeds in complex terrain with adaptive general regression neural networks. International Journal of Climatology, 2013, 33, 1793-1804.	1.5	34

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19	Long-range fluctuations and multifractality in connectivity density time series of a wind speed monitoring network. Chaos, 2018, 28, 033108.	1.0	34
20	Flooding extent cartography with Landsat TM imagery and regularized kernel Fisher's discriminant analysis. Computers and Geosciences, 2013, 57, 24-31.	2.0	31
21	Learning wind fields with multiple kernels. Stochastic Environmental Research and Risk Assessment, 2011, 25, 51-66.	1.9	30
22	Memory-Based Cluster Sampling for Remote Sensing Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 3096-3106.	2.7	30
23	Understanding angular effects in VHR imagery and their significance for urban land-cover model portability: A study of two multi-angle in-track image sequences. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 107, 99-111.	4.9	30
24	Monitoring network optimisation for spatial data classification using support vector machines. International Journal of Environment and Pollution, 2006, 28, 465.	0.2	29
25	Semi-supervised multiview embedding for hyperspectral data classification. Neurocomputing, 2014, 145, 427-437.	3.5	26
26	The multipoint Morisita index for the analysis of spatial patterns. Physica A: Statistical Mechanics and Its Applications, 2014, 406, 191-202.	1.2	25
27	Machine learning for toxicity characterization of organic chemical emissions using USEtox database: Learning the structure of the input space. Environment International, 2015, 83, 72-85.	4.8	25
28	Multi-scale support vector algorithms for hot spot detection and modelling. Stochastic Environmental Research and Risk Assessment, 2008, 22, 647-660.	1.9	23
29	Unbiased query-by-bagging active learning for VHR image classification. Proceedings of SPIE, 2010, , .	0.8	22
30	Pattern detection in forensic case data using graph theory: Application to heroin cutting agents. Forensic Science International, 2007, 167, 242-246.	1.3	21
31	Indoor radon distribution in Switzerland: lognormality and Extreme Value Theory. Journal of Environmental Radioactivity, 2008, 99, 649-657.	0.9	18
32	Structured Output SVM for Remote Sensing Image Classification. Journal of Signal Processing Systems, 2011, 65, 301-310.	1.4	18
33	Feature selection for regression problems based on the Morisita estimator of intrinsic dimension. Pattern Recognition, 2017, 70, 126-138.	5.1	17
34	A new estimator of intrinsic dimension based on the multipoint Morisita index. Pattern Recognition, 2015, 48, 4070-4081.	5.1	16
35	Unsupervised change detection by kernel clustering. Proceedings of SPIE, 2010, , .	0.8	13
36	Kernel-Based Mapping of Orographic Rainfall Enhancement in the Swiss Alps as Detected by Weather Radar. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 2954-2967.	2.7	13

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37	Transfer component analysis for domain adaptation in image classification. Proceedings of SPIE, 2011, , .	0.8	12
38	Comparing seismicity declustering techniques by means of the joint use of Allan Factor and Morisita index. Stochastic Environmental Research and Risk Assessment, 2016, 30, 77-90.	1.9	12
39	Unsupervised feature selection based on the Morisita estimator of intrinsic dimension. Knowledge-Based Systems, 2017, 135, 125-134.	4.0	12
40	Investigating the time dynamics of wind speed in complex terrains by using the Fisherâ€"Shannon method. Physica A: Statistical Mechanics and Its Applications, 2019, 523, 611-621.	1.2	12
41	Local fractality: The case of forest fires in Portugal. Physica A: Statistical Mechanics and Its Applications, 2017, 479, 400-410.	1.2	11
42	Spatio-temporal estimation of wind speed and wind power using extreme learning machines: predictions, uncertainty and technical potential. Stochastic Environmental Research and Risk Assessment, 2022, 36, 2049-2069.	1.9	11
43	Interest rates mapping. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 3897-3903.	1.2	10
44	Cluster-based active learning for compact image classification. , 2010, , .		10
45	Multi-sensor change detection based on nonlinear canonical correlations. , 2013, , .		10
46	Uncertainty quantification in extreme learning machine: Analytical developments, variance estimates and confidence intervals. Neurocomputing, 2021, 456, 436-449.	3.5	10
47	Morisita-based space-clustering analysis of Swiss seismicity. Physica A: Statistical Mechanics and Its Applications, 2015, 419, 40-47.	1.2	9
48	Advanced clustering methods for mining chemical databases in forensic science. Chemometrics and Intelligent Laboratory Systems, 2008, 90, 123-131.	1.8	8
49	Spatial Modelling of Extreme Wind Speed Distributions in Switzerland. Energy Procedia, 2016, 97, 100-107.	1.8	8
50	Intelligent Analysis of Landslide Data Using Machine Learning Algorithms. , 2013, , 161-167.		8
51	Random Forest for Toxicity of Chemical Emissions: Features Selection and Uncertainty Quantification. Journal of Environmental Accounting and Management, 2015, 3, 229-241.	0.3	8
52	Emergence of spatio-temporal patterns in forest-fire sequences. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 3271-3280.	1.2	7
53	A new algorithm for redundancy minimisation in geo-environmental data. Computers and Geosciences, 2019, 133, 104328.	2.0	7
54	Analysis of temporal properties of extremes of wind measurements from 132 stations over Switzerland. Renewable Energy, 2020, 145, 1091-1103.	4.3	7

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55	A Special Issue on Data Science for Geosciences. Mathematical Geosciences, 2020, 52, 1-3.	1.4	6
56	Reprĕsentation multifractale de la population suisse. CyberGeo, 0, , .	0.0	5
57	Environmental Monitoring Network Characterization and Clustering. , 0, , 19-46.		4
58	Unsupervised change detection in the feature space using kernels. , 2011, , .		4
59	Periodic fluctuations in correlation-based connectivity density time series: Application to wind speed-monitoring network in Switzerland. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 1555-1569.	1.2	4
60	Community detection analysis in wind speed-monitoring systems using mutual information-based complex network. Chaos, 2019, 29, 043107.	1.0	4
61	Automatic Decision-Oriented Mapping of Pollution Data. Lecture Notes in Computer Science, 2008, , 678-691.	1.0	4
62	Advanced active sampling for remote sensing image classification. , 2010, , .		3
63	Detection of Urban Socio-economic Patterns Using Clustering Techniques. Studies in Computational Intelligence, 2009, , 19-36.	0.7	3
64	Advanced Mapping of Environmental Data: Introduction. , 0, , 1-17.		2
65	Learning the relevant image features with multiple kernels. , 2009, , .		2
66	Domain separation for efficient adaptive active learning. , 2011, , .		2
67	Statistical assessment of dataset shift and model portability in multi-angle in-track image acquisitions. , 2013, , .		1
68	Multiple Kernel Learning of Environmental Data. Case Study: Analysis and Mapping of Wind Fields. Lecture Notes in Computer Science, 2009, , 933-943.	1.0	1
69	Socio-economic Data Analysis with Scan Statistics and Self-organizing Maps. Lecture Notes in Computer Science, 2008, , 52-64.	1.0	1
70	Automatic Mapping and Classification of Spatial Environmental Data. Studies in Computational Intelligence, 2011, , 205-223.	0.7	1
71	Enhanced change detection using nonlinear feature extraction. , 2012, , .		0
72	Predicting snow height in ski resorts using an agent-based simulation. Multiagent and Grid Systems, 2014, 9, 279-299.	0.5	0

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73	Domain adaptation in remote sensing through cross-image synthesis with dictionaries. , 2014, , .		0
74	Unsupervised learning of Swiss population spatial distribution. PLoS ONE, 2021, 16, e0246529.	1.1	0
75	Unsupervised Learning of High Dimensional Environmental Data Using Local Fractality Concept. Lecture Notes in Computer Science, 2021, , 130-138.	1.0	0
76	Clustering and Hot Spot Detection in Socio-economic Spatio-temporal Data. Lecture Notes in Computer Science, 2009, , 234-250.	1.0	0