

Konstantinos Karantzalos

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

2,342
citations

304602

22
h-index

414303

32
g-index

94
all docs

94
docs citations

94
times ranked

2489
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep supervised learning for hyperspectral data classification through convolutional neural networks. , 2015, , .		589
2	Building detection in very high resolution multispectral data with deep learning features. , 2015, , .		181
3	Detecting Urban Changes with Recurrent Neural Networks from Multitemporal Sentinel-2 Data. , 2019, , .		91
4	Recognition-Driven Two-Dimensional Competing Priors Toward Automatic and Accurate Building Detection. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 133-144.	2.7	90
5	Object-based image analysis through nonlinear scale-space filtering. ISPRS Journal of Photogrammetry and Remote Sensing, 2011, 66, 2-16.	4.9	62
6	Vehicle detection and traffic density monitoring from very high resolution satellite video data. , 2015, , .		62
7	Multitemporal Very High Resolution From Space: Outcome of the 2016 IEEE GRSS Data Fusion Contest. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 3435-3447.	2.3	59
8	A Deep Multitask Learning Framework Coupling Semantic Segmentation and Fully Convolutional LSTM Networks for Urban Change Detection. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7651-7668.	2.7	58
9	Automatic detection and tracking of oil spills in SAR imagery with level set segmentation. International Journal of Remote Sensing, 2008, 29, 6281-6296.	1.3	55
10	LEAF AREA INDEX ESTIMATION IN VINEYARDS FROM UAV HYPERSPECTRAL DATA, 2D IMAGE MOSAICS AND 3D CANOPY SURFACE MODELS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-1/W4, 299-303.	0.2	55
11	Improving edge detection and watershed segmentation with anisotropic diffusion and morphological levellings. International Journal of Remote Sensing, 2006, 27, 5427-5434.	1.3	50
12	Remotely Sensing the Source and Transport of Marine Plastic Debris in Bay Islands of Honduras (Caribbean Sea). Remote Sensing, 2020, 12, 1727.	1.8	48
13	Monitoring urban changes based on scale-space filtering and object-oriented classification. International Journal of Applied Earth Observation and Geoinformation, 2012, 15, 38-48.	1.4	47
14	A Region-based Level Set Segmentation for Automatic Detection of Man-made Objects from Aerial and Satellite Images. Photogrammetric Engineering and Remote Sensing, 2009, 75, 667-677.	0.3	42
15	Correcting Image Refraction: Towards Accurate Aerial Image-Based Bathymetry Mapping in Shallow Waters. Remote Sensing, 2020, 12, 322.	1.8	42
16	Global assessment of innovative solutions to tackle marine litter. Nature Sustainability, 2021, 4, 516-524.	11.5	41
17	A Novel Object-Based Deep Learning Framework for Semantic Segmentation of Very High-Resolution Remote Sensing Data: Comparison with Convolutional and Fully Convolutional Networks. Remote Sensing, 2019, 11, 684.	1.8	38
18	SHALLOW WATER BATHYMETRY MAPPING FROM UAV IMAGERY BASED ON MACHINE LEARNING. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W10, 9-16.	0.2	38

#	ARTICLE	IF	CITATIONS
19	Large-Scale Building Reconstruction Through Information Fusion and 3-D Priors. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2283-2296.	2.7	36
20	Evaluating explainable artificial intelligence methods for multi-label deep learning classification tasks in remote sensing. International Journal of Applied Earth Observation and Geoinformation, 2021, 103, 102520.	1.4	36
21	BENCHMARKING DEEP LEARNING FRAMEWORKS FOR THE CLASSIFICATION OF VERY HIGH RESOLUTION SATELLITE MULTISPECTRAL DATA. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, III-7, 83-88.	0.0	35
22	MARIDA: A benchmark for Marine Debris detection from Sentinel-2 remote sensing data. PLoS ONE, 2022, 17, e0262247.	1.1	32
23	Vineyard Detection and Vine Variety Discrimination from Very High Resolution Satellite Data. Remote Sensing, 2016, 8, 235.	1.8	30
24	Automatic Descriptor-Based Co-Registration of Frame Hyperspectral Data. Remote Sensing, 2014, 6, 3409-3426.	1.8	27
25	Deep Learning-Based Man-Made Object Detection from Hyperspectral Data. Lecture Notes in Computer Science, 2015, , 717-727.	1.0	27
26	A Scalable Geospatial Web Service for Near Real-Time, High-Resolution Land Cover Mapping. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 4665-4674.	2.3	26
27	Graph-Based Registration, Change Detection, and Classification in Very High Resolution Multitemporal Remote Sensing Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 2940-2951.	2.3	26
28	DepthLearn: Learning to Correct the Refraction on Point Clouds Derived from Aerial Imagery for Accurate Dense Shallow Water Bathymetry Based on SVMs-Fusion with LiDAR Point Clouds. Remote Sensing, 2019, 11, 2225.	1.8	26
29	Detailed Land Cover Mapping from Multitemporal Landsat-8 Data of Different Cloud Cover. Remote Sensing, 2018, 10, 1214.	1.8	23
30	Water Stress Estimation in Vineyards from Aerial SWIR and Multispectral UAV Data. Remote Sensing, 2020, 12, 2499.	1.8	19
31	BENCHMARKING DEEP LEARNING FRAMEWORKS FOR THE CLASSIFICATION OF VERY HIGH RESOLUTION SATELLITE MULTISPECTRAL DATA. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, III-7, 83-88.	0.0	19
32	PANSHARPENING ON THE NARROW VNIR AND SWIR SPECTRAL BANDS OF SENTINEL-2. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B7, 723-730.	0.2	18
33	Comparison of Global and Continental Land Cover Products for Selected Study Areas in South Central and Eastern European Region. Remote Sensing, 2018, 10, 1967.	1.8	17
34	Geospatial Big Data for Environmental and Agricultural Applications. , 2016, , 353-390.		16
35	Recent Advances on 2D and 3D Change Detection in Urban Environments from Remote Sensing Data. , 2015, , 237-272.		15
36	Unsupervised Multistep Deformable Registration of Remote Sensing Imagery Based on Deep Learning. Remote Sensing, 2021, 13, 1294.	1.8	14

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37	Assessment of Different Object Detectors for the Maturity Level Classification of Broccoli Crops Using UAV Imagery. <i>Remote Sensing</i> , 2022, 14, 731.	1.8	14
38	Can single empirical algorithms accurately predict inland shallow water quality status from high resolution, multi-sensor, multi-temporal satellite data?. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XL-7/W3, 1511-1516.	0.2	12
39	Deep Learning for Downscaling Remote Sensing Images: Fusion and super-resolution. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2022, 10, 202-255.	4.9	12
40	Simultaneous registration, segmentation and change detection from multisensor, multitemporal satellite image pairs. , 2016, , .		11
41	Spectral Discrimination and Reflectance Properties of Various Vine Varieties from Satellite, UAV and Proximate Sensors. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XL-7/W3, 31-37.	0.2	11
42	MODEL-BASED BUILDING DETECTION FROM LOW-COST OPTICAL SENSORS ONBOARD UNMANNED AERIAL VEHICLES. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XL-1/W4, 293-297.	0.2	10
43	Multiple object tracking with background estimation in hyperspectral video sequences. , 2015, , .		9
44	Fusing Multimodal Video Data for Detecting Moving Objects/Targets in Challenging Indoor and Outdoor Scenes. <i>Remote Sensing</i> , 2019, 11, 446.	1.8	9
45	Combining anisotropic diffusion and alternating sequential filtering for satellite image enhancement and smoothing. , 2004, , .		8
46	Efficient and Automated Multimodal Satellite Data Registration through MRFs and Linear Programming. , 2014, , .		8
47	Object-Based Building Change Detection from a Single Multispectral Image and Pre-Existing Geospatial Information. <i>Photogrammetric Engineering and Remote Sensing</i> , 2015, 81, 481-489.	0.3	8
48	Validation and Inter-Comparison of Spaceborne Derived Global and Continental Land Cover Products for the Mediterranean Region: The Case of Thessaly. <i>Land</i> , 2017, 6, 34.	1.2	8
49	RemoteAgri: processing online big earth observation data for precision agriculture. , 2015, , 421-428.		8
50	PANSHARPENING ON THE NARROW VNIR AND SWIR SPECTRAL BANDS OF SENTINEL-2. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLI-B7, 723-730.	0.2	8
51	Scalable Geospatial Web Services through Efficient, Online and Near Real-Time Processing of Earth Observation Data. , 2015, , .		7
52	PEERS â€” An Open Science â€œPlatform for the Exchange of Experimental Research Standardsâ€ in Biomedicine. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 755812.	1.0	7
53	Towards automatic detection of coastlines from satellite imagery. , 0, , .		6
54	SANTORY: SANTORiniâ€™s Seafloor Volcanic ObservatorY. <i>Frontiers in Marine Science</i> , 2022, 9, .	1.2	6

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55	Monitoring crop growth and key agronomic parameters through multitemporal observations and time series analysis from remote sensing big data. <i>Advances in Animal Biosciences</i> , 2017, 8, 394-399.	1.0	5
56	FPGA acceleration of hyperspectral image processing for high-speed detection applications. , 2017, , .		5
57	PRECISION VITICULTURE FROM MULTITEMPORAL, MULTISPECTRAL VERY HIGH RESOLUTION SATELLITE DATA. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-B8, 919-925.	0.2	5
58	Intrinsic dimensionality estimation and dimensionality reduction through scale space filtering. , 2009, , .		4
59	Integrating edge/boundary priors with classification scores for building detection in very high resolution data. , 2017, , .		4
60	Stacked Encoder-Decoders for Accurate Semantic Segmentation of Very High Resolution Satellite Datasets. , 2018, , .		4
61	A Multi-Task Deep Learning Framework Coupling Semantic Segmentation and Image Reconstruction for Very High Resolution Imagery. , 2019, , .		4
62	Learning from Synthetic Data: Enhancing Refraction Correction Accuracy for Airborne Image-Based Bathymetric Mapping of Shallow Coastal Waters. <i>PFG - Journal of Photogrammetry, Remote Sensing and Geoinformation Science</i> , 2021, 89, 91.	0.7	4
63	URBAN CHANGE DETECTION BASED ON SEMANTIC SEGMENTATION AND FULLY CONVOLUTIONAL LSTM NETWORKS. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> , 0, V-2-2020, 541-547.	0.0	4
64	MULTIMODAL DATA FUSION FOR EFFECTIVE SURVEILLANCE OF CRITICAL INFRASTRUCTURE. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-3/W3, 87-93.	0.2	4
65	CLOUDTRAN: CLOUD REMOVAL FROM MULTITEMPORAL SATELLITE IMAGES USING AXIAL TRANSFORMER NETWORKS. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLIII-B2-2022, 1125-1132.	0.2	4
66	HOW CHALLENGING IS THE DISCRIMINATION OF FLOATING MATERIALS ON THE SEA SURFACE USING HIGH RESOLUTION MULTISPECTRAL SATELLITE DATA?. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLIII-B3-2022, 151-157.	0.2	4
67	<title>Evaluation of selected edge detection techniques in remotely sensing images</title>. , 2003, , .		3
68	Multitemporal Mapping of Chlorophyllâ€Œ± in Lake Karla from High Resolution Multispectral Satellite data. <i>Environmental Processes</i> , 2016, 3, 681-691.	1.7	3
69	Implicit Free-Form-Deformations for Multi-frame Segmentation and Tracking. <i>Lecture Notes in Computer Science</i> , 2005, , 271-282.	1.0	3
70	THE EFFECT OF PANSHARPENING ALGORITHMS ON THE RESULTING ORTHOIMAGERY. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLI-B7, 625-630.	0.2	3
71	JOINT LAND COVER AND CROP TYPE MAPPING USING MULTI-TEMPORAL SENTINEL-2 DATA FROM VARIOUS ENVIRONMENTAL ZONES IN GREECE. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLIII-B3-2021, 319-326.	0.2	2
72	Novel Virtual Reality Solutions for Captivating Virtual Underwater Tours Targeting the Cultural and Tourism Industries. , 2020, , .		2

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73	ASSESSING THE CONTRIBUTION OF SPECTRAL AND TEMPORAL FEATURES FOR ANNUAL LAND COVER AND CROP TYPE MAPPING. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B3-2020, 1555-1562.	0.2	2
74	FILTERING LPIS DATA FOR BUILDING TRUSTWORTHY TRAINING DATASETS FOR CROP TYPE MAPPING: A CASE STUDY IN GREECE. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B3-2022, 871-877.	0.2	2
75	Processing with nonlinear filters satellite imagery. , 2003, , .		1
76	Higher order polynomials, free form deformations and optical flow estimation. , 2005, , .		1
77	Variational model-based 3d building extraction from remote sensing data. , 2009, , .		1
78	Benchmarking server-side software modules for handling and processing remote sensing data through Rasdaman. , 2015, , .		1
79	Micro-scale thermal behavioral analysis for active evacuation routes. , 2015, , .		1
80	Detecting and classifying vine varieties from very high resolution multispectral data. , 2015, , .		1
81	Patch-based deep learning architectures for sparse annotated very high resolution datasets. , 2017, , .		1
82	Per city-block, density estimation at build-up areas from aerial RGB imagery with deep learning. , 2017, , .		1
83	Towards Joint Land Cover and Crop Type Mapping with Numerous Classes. , 2018, , .		1
84	Editorial for the Special Issue "Frontiers in Spectral Imaging and 3D Technologies for Geospatial Solutions". Remote Sensing, 2019, 11, 1714.	1.8	1
85	AUTOMATIC MRF-BASED REGISTRATION OF HIGH RESOLUTION SATELLITE VIDEO DATA. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, III-1, 121-128.	0.0	1
86	AUTOMATIC MRF-BASED REGISTRATION OF HIGH RESOLUTION SATELLITE VIDEO DATA. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, III-1, 121-128.	0.0	1
87	A SEMANTIC 3D POINT CLOUD SEGMENTATION APPROACH BASED ON OPTIMAL VIEW SELECTION FOR 2D IMAGE FEATURE EXTRACTION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W17, 9-14.	0.2	1
88	SEAFLOOR MAPPING FROM MULTISPECTRAL MULTIBEAM ACOUSTIC DATA AT THE EUROPEAN OPEN SCIENCE CLOUD. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B2-2020, 985-990.	0.2	1