

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	MARIDA: A benchmark for Marine Debris detection from Sentinel-2 remote sensing data. PLoS ONE, 2022, 17, e0262247.	1.1	32
2	Assessment of Different Object Detectors for the Maturity Level Classification of Broccoli Crops Using UAV Imagery. Remote Sensing, 2022, 14, 731.	1.8	14
3	SANTORY: SANTORINI'S Seafloor Volcanic Observatory. Frontiers in Marine Science, 2022, 9, .	1.2	6
4	Deep Learning for Downscaling Remote Sensing Images: Fusion and super-resolution. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 202-255.	4.9	12
5	Unsupervised Multistep Deformable Registration of Remote Sensing Imagery Based on Deep Learning. Remote Sensing, 2021, 13, 1294.	1.8	14
6	Learning from Synthetic Data: Enhancing Refraction Correction Accuracy for Airborne Image-Based Bathymetric Mapping of Shallow Coastal Waters. PFG - Journal of Photogrammetry, Remote Sensing and Geoinformation Science, 2021, 89, 91.	0.7	4
7	Global assessment of innovative solutions to tackle marine litter. Nature Sustainability, 2021, 4, 516-524.	11.5	41
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	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
10	PEERS - An Open Science Platform for the Exchange of Experimental Research Standards in Biomedicine. Frontiers in Behavioral Neuroscience, 2021, 15, 755812.	1.0	7
11	Water Stress Estimation in Vineyards from Aerial SWIR and Multispectral UAV Data. Remote Sensing, 2020, 12, 2499.	1.8	19
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	Correcting Image Refraction: Towards Accurate Aerial Image-Based Bathymetry Mapping in Shallow Waters. Remote Sensing, 2020, 12, 322.	1.8	42
14	Novel Virtual Reality Solutions for Captivating Virtual Underwater Tours Targeting the Cultural and Tourism Industries. , 2020, , .		2
15	Editorial for the Special Issue "Frontiers in Spectral Imaging and 3D Technologies for Geospatial Solutions". Remote Sensing, 2019, 11, 1714.	1.8	1
16	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
17	Fusing Multimodal Video Data for Detecting Moving Objects/Targets in Challenging Indoor and Outdoor Scenes. Remote Sensing, 2019, 11, 446.	1.8	9
18	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

#	ARTICLE	IF	CITATIONS
19	A Multi-Task Deep Learning Framework Coupling Semantic Segmentation and Image Reconstruction for Very High Resolution Imagery. , 2019, , .		4
20	Detecting Urban Changes with Recurrent Neural Networks from Multitemporal Sentinel-2 Data. , 2019, , .		91
21	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
22	Stacked Encoder-Decoders for Accurate Semantic Segmentation of Very High Resolution Satellite Datasets. , 2018, , .		4
23	Towards Joint Land Cover and Crop Type Mapping with Numerous Classes. , 2018, , .		1
24	Detailed Land Cover Mapping from Multitemporal Landsat-8 Data of Different Cloud Cover. Remote Sensing, 2018, 10, 1214.	1.8	23
25	Patch-based deep learning architectures for sparse annotated very high resolution datasets. , 2017, , .		1
26	Per city-block, density estimation at build-up areas from aerial RGB imagery with deep learning. , 2017, , .		1
27	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
28	Monitoring crop growth and key agronomic parameters through multitemporal observations and time series analysis from remote sensing big data. Advances in Animal Biosciences, 2017, 8, 394-399.	1.0	5
29	FPGA acceleration of hyperspectral image processing for high-speed detection applications. , 2017, , .		5
30	Integrating edge/boundary priors with classification scores for building detection in very high resolution data. , 2017, , .		4
31	Validation and Inter-Comparison of Spaceborne Derived Global and Continental Land Cover Products for the Mediterranean Region: The Case of Thessaly. Land, 2017, 6, 34.	1.2	8
32	Vineyard Detection and Vine Variety Discrimination from Very High Resolution Satellite Data. Remote Sensing, 2016, 8, 235.	1.8	30
33	Simultaneous registration, segmentation and change detection from multisensor, multitemporal satellite image pairs. , 2016, , .		11
34	Multitemporal Mapping of Chlorophyllâ€± in Lake Karla from High Resolution Multispectral Satellite data. Environmental Processes, 2016, 3, 681-691.	1.7	3
35	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
36	Geospatial Big Data for Environmental and Agricultural Applications. , 2016, , 353-390.		16

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37	Multiple object tracking with background estimation in hyperspectral video sequences. , 2015, , .		9
38	Benchmarking server-side software modules for handling and processing remote sensing data through Rasdaman. , 2015, , .		1
39	Micro-scale thermal behavioral analysis for active evacuation routes. , 2015, , .		1
40	Detecting and classifying vine varieties from very high resolution multispectral data. , 2015, , .		1
41	Deep supervised learning for hyperspectral data classification through convolutional neural networks. , 2015, , .		589
42	Building detection in very high resolution multispectral data with deep learning features. , 2015, , .		181
43	Deep Learning-Based Man-Made Object Detection from Hyperspectral Data. Lecture Notes in Computer Science, 2015, , 717-727.	1.0	27
44	Vehicle detection and traffic density monitoring from very high resolution satellite video data. , 2015, , .		62
45	Recent Advances on 2D and 3D Change Detection in Urban Environments from Remote Sensing Data. , 2015, , 237-272.		15
46	Object-Based Building Change Detection from a Single Multispectral Image and Pre-Existing Geospatial Information. Photogrammetric Engineering and Remote Sensing, 2015, 81, 481-489.	0.3	8
47	Scalable Geospatial Web Services through Efficient, Online and Near Real-Time Processing of Earth Observation Data. , 2015, , .		7
48	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
49	RemoteAgri: processing online big earth observation data for precision agriculture. , 2015, , 421-428.		8
50	Automatic Descriptor-Based Co-Registration of Frame Hyperspectral Data. Remote Sensing, 2014, 6, 3409-3426.	1.8	27
51	Efficient and Automated Multimodal Satellite Data Registration through MRFs and Linear Programming. , 2014, , .		8
52	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
53	Object-based image analysis through nonlinear scale-space filtering. ISPRS Journal of Photogrammetry and Remote Sensing, 2011, 66, 2-16.	4.9	62
54	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

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55	Intrinsic dimensionality estimation and dimensionality reduction through scale space filtering. , 2009, , .		4
56	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
57	Variational model-based 3d building extraction from remote sensing data. , 2009, , .		1
58	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
59	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
60	Improving edge detection and watershed segmentation with anisotropic diffusion and morphological levellings. International Journal of Remote Sensing, 2006, 27, 5427-5434.	1.3	50
61	Higher order polynomials, free form deformations and optical flow estimation. , 2005, , .		1
62	Implicit Free-Form-Deformations for Multi-frame Segmentation and Tracking. Lecture Notes in Computer Science, 2005, , 271-282.	1.0	3
63	Combining anisotropic diffusion and alternating sequential filtering for satellite image enhancement and smoothing. , 2004, , .		8
64	Processing with nonlinear filters satellite imagery. , 2003, , .		1
65	<title>Evaluation of selected edge detection techniques in remotely sensing images</title>. , 2003, , .		3
66	Towards automatic detection of coastlines from satellite imagery. , 0, , .		6
67	JOINT LAND COVER AND CROP TYPE MAPPING USING MULTI-TEMPORAL SENTINEL-2 DATA FROM VARIOUS ENVIRONMENTAL ZONES IN GREECE. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B3-2021, 319-326.	0.2	2
68	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
69	URBAN CHANGE DETECTION BASED ON SEMANTIC SEGMENTATION AND FULLY CONVOLUTIONAL LSTM NETWORKS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, V-2-2020, 541-547.	0.0	4
70	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
71	MULTIMODAL DATA FUSION FOR EFFECTIVE SURVEILLANCE OF CRITICAL INFRASTRUCTURE. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3/W3, 87-93.	0.2	4
72	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

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73	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
74	MODEL-BASED BUILDING DETECTION FROM LOW-COST OPTICAL SENSORS ONBOARD UNMANNED AERIAL VEHICLES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-1/W4, 293-297.	0.2	10
75	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
76	Can single empirical algorithms accurately predict inland shallow water quality status from high resolution, multi-sensor, multi-temporal satellite data?. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-7/W3, 1511-1516.	0.2	12
77	Spectral Discrimination and Reflectance Properties of Various Vine Varieties from Satellite, UAV and Proximate Sensors. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-7/W3, 31-37.	0.2	11
78	THE EFFECT OF PANSHARPENING ALGORITHMS ON THE RESULTING ORTHOIMAGERY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B7, 625-630.	0.2	3
79	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
80	PRECISION VITICULTURE FROM MULTITEMPORAL, MULTISPECTRAL VERY HIGH RESOLUTION SATELLITE DATA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B8, 919-925.	0.2	5
81	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
82	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	8
83	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
84	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
85	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
86	CLOUDTRAN: CLOUD REMOVAL FROM MULTITEMPORAL SATELLITE IMAGES USING AXIAL TRANSFORMER NETWORKS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B2-2022, 1125-1132.	0.2	4
87	HOW CHALLENGING IS THE DISCRIMINATION OF FLOATING MATERIALS ON THE SEA SURFACE USING HIGH RESOLUTION MULTISPECTRAL SATELLITE DATA?. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B3-2022, 151-157.	0.2	4
88	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