Peter Reinartz

List of Publications by Year
in descending order

108	3,718	136885	149623
papers	**citations**	32	56
		h-index	**g-index**

109	109	109	3716
all docs	**docs citations**	**times ranked**	**citing authors**

#	Article	IF	Citations
1	Mutual-Information-Based Registration of TerraSAR-X and Ikonos Imagery in Urban Areas. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 939-949.	2.7	266
2	3D change detection – Approaches and applications. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 122, 41-56.	4.9	193
3	Building Change Detection Based on Satellite Stereo Imagery and Digital Surface Models. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 406-417.	2.7	172
4	Airborne Vehicle Detection in Dense Urban Areas Using HoG Features and Disparity Maps. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 2327-2337.	2.3	144
5	Estimating Satellite-Derived Bathymetry (SDB) with the Google Earth Engine and Sentinel-2. Remote Sensing, 2018, 10, 859.	1.8	143
6	Mapping Mediterranean seagrasses with Sentinel-2 imagery. Marine Pollution Bulletin, 2018, 134, 197-209.	2.3	115
7	Exploring the Potential of Conditional Adversarial Networks for Optical and SAR Image Matching. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1811-1820.	2.3	113
8	Towards Global-Scale Seagrass Mapping and Monitoring Using Sentinel-2 on Google Earth Engine: The Case Study of the Aegean and Ionian Seas. Remote Sensing, 2018, 10, 1227.	1.8	113
9	Haze Detection and Removal in Remotely Sensed Multispectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 5895-5905.	2.7	110
10	Building Footprint Extraction From VHR Remote Sensing Images Combined With Normalized DSMs Using Fused Fully Convolutional Networks. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 2615-2629.	2.3	94
11	Data Products, Quality and Validation of the DLR Earth Sensing Imaging Spectrometer (DESIS). Sensors, 2019, 19, 4471.	2.1	90
12	Towards Multi-class Object Detection in Unconstrained Remote Sensing Imagery. Lecture Notes in Computer Science, 2019, , 150-165.	1.0	88
13	An Operational System for Estimating Road Traffic Information from Aerial Images. Remote Sensing, 2014, 6, 11315-11341.	1.8	80
14	Modifications in the SIFT operator for effective SAR image matching. International Journal of Image and Data Fusion, 2010, 1, 243-256.	0.8	76
15	Aerial LaneNet: Lane-Marking Semantic Segmentation in Aerial Imagery Using Wavelet-Enhanced Cost-Sensitive Symmetric Fully Convolutional Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 2920-2938.	2.7	74
16	Performance Evaluation for 3-D City Model Generation of Six Different DSMs From Air- and Spaceborne Sensors. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 59-70.	2.3	66
17	Adaptive Shadow Detection Using a Blackbody Radiator Model. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 2049-2059.	2.7	65
18	Traffic monitoring with serial images from airborne cameras. ISPRS Journal of Photogrammetry and Remote Sensing, 2006, 61, 149-158.	4.9	64

#	Article	IF	Citations
19	BUILDING EXTRACTION FROM REMOTE SENSING DATA USING FULLY CONVOLUTIONAL NETWORKS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-1/W1, 481-486.	0.2	64
20	On the use of Sentinel-2 for coastal habitat mapping and satellite-derived bathymetry estimation using downscaled coastal aerosol band. International Journal of Applied Earth Observation and Geoinformation, 2019, 80, 58-70.	1.4	58
21	Orthorectification of VHR optical satellite data exploiting the geometric accuracy of TerraSAR-X data. ISPRS Journal of Photogrammetry and Remote Sensing, 2011, 66, 124-132.	4.9	57
22	Accuracy Enhancement of ASTER Global Digital Elevation Models Using ICESat Data. Remote Sensing, 2011, 3, 1323-1343.	1.8	53
23	Building Reconstruction Using DSM and Orthorectified Images. Remote Sensing, 2013, 5, 1681-1703.	1.8	48
24	Classification of Hyperspectral Data Using an AdaBoostSVM Technique Applied on Band Clusters. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2066-2079.	2.3	48
25	Accuracy analysis for DSM and orthoimages derived from SPOT HRS stereo data using direct georeferencing. ISPRS Journal of Photogrammetry and Remote Sensing, 2006, 60, 160-169.	4.9	47
26	Noise Reduction in Hyperspectral Images Through Spectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 109-113.	1.4	47
27	Cubesats Allow High Spatiotemporal Estimates of Satellite-Derived Bathymetry. Remote Sensing, 2019, 11, 1299.	1.8	47
28	Automatic UAV Image Geo-Registration by Matching UAV Images to Georeferenced Image Data. Remote Sensing, 2017, 9, 376.	1.8	43
29	Automated Georeferencing of Optical Satellite Data with Integrated Sensor Model Improvement. Photogrammetric Engineering and Remote Sensing, 2012, 78, 61-74.	0.3	40
30	Complex building description and extraction based on Hough transformation and cycle detection. Remote Sensing Letters, 2012, 3, 151-159.	0.6	37
31	A Multiple SVM System for Classification of Hyperspectral Remote Sensing Data. Journal of the Indian Society of Remote Sensing, 2013, 41, 763-776.	1.2	35
32	Interannual Change Detection of Mediterranean Seagrasses Using RapidEye Image Time Series. Frontiers in Plant Science, 2018, 9, 96.	1.7	35
33	Towards automatic near real-time traffic monitoring with an airborne wide angle camera system. European Transport Research Review, 2009, 1, 11-21.	2.3	34
34	Object oriented image analysis based on multi-agent recognition system. Computers and Geosciences, 2013, 54, 219-230.	2.0	34
35	Combined Edge Segment Texture Analysis for the Detection of Damaged Buildings in Crisis Areas. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 1118-1128.	2.3	33
36	Spatial Quality Assessment of Pan-Sharpened High Resolution Satellite Imagery Based on an Automatically Estimated Edge Based Metric. Remote Sensing, 2013, 5, 6539-6559.	1.8	33

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37	A decision fusion method based on multiple support vector machine system for fusion of hyperspectral and LIDAR data. International Journal of Image and Data Fusion, 2014, 5, 196-209.	0.8	33
38	New Perspectives for Mapping Global Population Distribution Using World Settlement Footprint Products. Sustainability, 2019, 11, 6056.	1.6	33
39	DSM-to-LoD2: Spaceborne Stereo Digital Surface Model Refinement. Remote Sensing, 2018, 10, 1926.	1.8	31
40	Image acquisition geometry analysis for the fusion of optical and radar remote sensing data. International Journal of Image and Data Fusion, 2010, 1, 271-282.	0.8	30
41	Object Recognition Based on the Context Aware Decision-Level Fusion in Multiviews Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 12-22.	2.3	30
42	Spatiotemporal inferences for use in building detection using series of very-high-resolution space-borne stereo images. International Journal of Remote Sensing, 2016, 37, 3455-3476.	1.3	28
43	Low-cost optical Camera Systems for real-time Mapping Applications. Photogrammetrie, Fernerkundung, Geoinformation, 2012, 2012, 159-176.	1.2	27
44	Detection of Traffic Congestion in Optical Remote Sensing Imagery. , 2008, , .		26
45	Building damage assessment after the earthquake in Haiti using two post-event satellite stereo imagery and DSMs. International Journal of Image and Data Fusion, 2015, 6, 155-169.	0.8	26
46	Machine learning-based retrieval of benthic reflectance and *Posidonia oceanica* seagrass extent using a semi-analytical inversion of Sentinel-2 satellite data. International Journal of Remote Sensing, 2018, 39, 9428-9452.	1.3	26
47	Exploring Digital Surface Models from Nine Different Sensors for Forest Monitoring and Change Detection. Remote Sensing, 2017, 9, 287.	1.8	25
48	Optimization of OpenStreetMap Building Footprints Based on Semantic Information of Oblique UAV Images. Remote Sensing, 2018, 10, 624.	1.8	24
49	Leveraging Commercial High-Resolution Multispectral Satellite and Multibeam Sonar Data to Estimate Bathymetry: The Case Study of the Caribbean Sea. Remote Sensing, 2019, 11, 1830.	1.8	24
50	Building Outline Extraction Using a Heuristic Approach Based on Generalization of Line Segments. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 933-947.	2.3	22
51	Deep learning decision fusion for the classification of urban remote sensing data. Journal of Applied Remote Sensing, 2018, 12, 1.	0.6	22
52	Detection of High-Density Crowds in Aerial Images Using Texture Classification. Remote Sensing, 2016, 8, 470.	1.8	21
53	Automatic 3-D Building Model Reconstruction from Very High Resolution Stereo Satellite Imagery. Remote Sensing, 2019, 11, 1660.	1.8	21
54	CUBESAT-DERIVED DETECTION OF SEAGRASSES USING PLANET IMAGERY FOLLOWING UNMIXING-BASED DENOISING: IS SMALL THE NEXT BIG?. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-1/W1, 283-287.	0.2	21

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55	A new software/hardware architecture for real time image processing of wide area airborne camera images. Journal of Real-Time Image Processing, 2009, 4, 229-244.	2.2	20
56	Combined Haze and Cirrus Removal for Multispectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2016, , 1-5.	1.4	20
57	PACO: Python-Based Atmospheric Correction. Sensors, 2020, 20, 1428.	2.1	20
58	Multitemporal and Multispectral Remote Sensing Approach for Flood Detection in the Elbe-Mulde Region 2002. Clean - Soil, Air, Water, 2005, 33, 395-403.	0.8	17
59	Coregistration refinement of hyperspectral images and DSM: An object-based approach using spectral information. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 100, 23-34.	4.9	16
60	Improving Change Detection in Forest Areas Based on Stereo Panchromatic Imagery Using Kernel MNF. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 7130-7139.	2.7	15
61	Modified Superpixel Segmentation for Digital Surface Model Refinement and Building Extraction from Satellite Stereo Imagery. Remote Sensing, 2018, 10, 1824.	1.8	15
62	High-Resolution Gridded Population Datasets: Exploring the Capabilities of the World Settlement Footprint 2019 Imperviousness Layer for the African Continent. Remote Sensing, 2021, 13, 1142.	1.8	15
63	ROOF TYPE SELECTION BASED ON PATCH-BASED CLASSIFICATION USING DEEP LEARNING FOR HIGH RESOLUTION SATELLITE IMAGERY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-1/W1, 653-657.	0.2	15
64	Authorship analysis based on data compression. Pattern Recognition Letters, 2014, 42, 79-84.	2.6	14
65	A metaheuristic feature-level fusion strategy in classification of urban area using hyperspectral imagery and LiDAR data. European Journal of Remote Sensing, 2017, 50, 222-236.	1.7	14
66	APDA Water Vapor Retrieval Validation for Sentinel-2 Imagery. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 227-231.	1.4	13
67	Multi-Task cGAN for Simultaneous Spaceborne DSM Refinement and Roof-Type Classification. Remote Sensing, 2019, 11, 1262.	1.8	13
68	Model based traffic congestion detection in optical remote sensing imagery. European Transport Research Review, 2010, 2, 85-92.	2.3	12
69	GENERATING ARTIFICIAL NEAR INFRARED SPECTRAL BAND FROM RGB IMAGE USING CONDITIONAL GENERATIVE ADVERSARIAL NETWORK. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, V-3-2020, 279-285.	0.0	12
70	Feature grouping-based multiple fuzzy classifier system for fusion of hyperspectral and LIDAR data. Journal of Applied Remote Sensing, 2014, 8, 083509.	0.6	11
71	Fusing stereo and multispectral data from WorldView-2 for urban modeling. , 2012, , .		10
72	Ground filtering and DTM generation from DSM data using probabilistic voting and segmentation. International Journal of Remote Sensing, 2018, 39, 2860-2883.	1.3	8

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73	2D/3D information fusion for building extraction from high-resolution satellite stereo images using kernel graph cuts. International Journal of Remote Sensing, 2019, 40, 5835-5860.	1.3	8
74	Analysis of Image Sequences for the Detection and Monitoring of Moving Traffic. Photogrammetrie, Fernerkundung, Geoinformation, 2009, 2009, 421-430.	1.2	7
75	Restoration of Simulated EnMAP Data through Sparse Spectral Unmixing. Remote Sensing, 2015, 7, 13190-13207.	1.8	7
76	A decision-based multi-sensor classification system using thermal hyperspectral and visible data in urban area. European Journal of Remote Sensing, 2017, 50, 414-427.	1.7	7
77	Automatic Annotation of Airborne Images by Label Propagation Based on a Bayesian-CRF Model. Remote Sensing, 2019, 11, 145.	1.8	7
78	Multiple Pedestrians and Vehicles Tracking in Aerial Imagery Using a Convolutional Neural Network. Remote Sensing, 2021, 13, 1953.	1.8	7
79	DLR HySUâ€"A Benchmark Dataset for Spectral Unmixing. Remote Sensing, 2021, 13, 2559.	1.8	7
80	Towards an Improved Large-Scale Gridded Population Dataset: A Pan-European Study on the Integration of 3D Settlement Data into Population Modelling. Remote Sensing, 2022, 14, 325.	1.8	7
81	Model-driven 3D building reconstruction based on integeration of DSM and spectral information of satellite images. , 2014, , .		6
82	Context Aware Modification on the Object Based Image Analysis. Journal of the Indian Society of Remote Sensing, 2015, 43, 709-717.	1.2	6
83	LONG-SHORT SKIP CONNECTIONS IN DEEP NEURAL NETWORKS FOR DSM REFINEMENT. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B2-2020, 383-390.	0.2	6
84	Multi-Label Learning based Semi-Global Matching Forest. Remote Sensing, 2020, 12, 1069.	1.8	5
85	Oblique view individual tree crown delineation. International Journal of Applied Earth Observation and Geoinformation, 2021, 99, 102314.	1.4	5
86	Elevation-Dependent Removal of Cirrus Clouds in Satellite Imagery. Remote Sensing, 2020, 12, 494.	1.8	5
87	Selection of numerical measures for pan-sharpening assessment. , 2012, , .		4
88	A Simple Cloud-Native Spectral Transformation Method to Disentangle Optically Shallow and Deep Waters in Sentinel-2 Images. Remote Sensing, 2022, 14, 590.	1.8	4
89	Factor graph models for multisensory data fusion: From low-level features to high level interpretation. , 2012, , .		3
90	DIGITAL ELEVATION MODELS FROM STEREO, VIDEO AND MULTI-VIEW IMAGERY CAPTURED BY SMALL SATELLITES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B2-2021, 77-82.	0.2	3

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91	SEGMENT-AND-COUNT: VEHICLE COUNTING IN AERIAL IMAGERY USING ATROUS CONVOLUTIONAL NEURAL NETWORKS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-1, 19-23.	0.2	3
92	AUTOMATIC LARGE-SCALE 3D BUILDING SHAPE REFINEMENT USING CONDITIONAL GENERATIVE ADVERSARIAL NETWORKS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2, 103-108.	0.2	3
93	DENSE MATCHING COMPARISON BETWEEN CLASSICAL AND DEEP LEARNING BASED ALGORITHMS FOR REMOTE SENSING DATA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B2-2020, 521-525.	0.2	3
94	Urban Sprawl and COVID-19 Impact Analysis by Integrating Deep Learning with Google Earth Engine. Remote Sensing, 2022, 14, 2038.	1.8	3
95	PERFORMANCE EVALUATION OF FUSION TECHNIQUES FOR CROSS-DOMAIN BUILDING ROOFTOP SEGMENTATION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B3-2022, 501-508.	0.2	3
96	LOCAL VERSUS GLOBAL VARIATIONAL APPROACHES TO ENHANCE WATERSHED TRANSFORMATION BASED INDIVIDUAL TREE CROWN SEGMENTATION OF DIGITAL SURFACE MODELS FROM 3K OPTICAL IMAGERY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W13, 43-50.	0.2	2
97	MULTIPLE VEHICLES AND PEOPLE TRACKING IN AERIAL IMAGERY USING STACK OF MICRO SINGLE-OBJECT-TRACKING CNNS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-4/W18, 163-170.	0.2	2
98	Self-Supervised Convolutional Neural Networks for Plant Reconstruction Using Stereo Imagery. Photogrammetric Engineering and Remote Sensing, 2019, 85, 389-399.	0.3	1
99	UNMIXING-BASED DENOISING AS A PRE-PROCESSING STEP FOR CORAL REEF ANALYSIS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-1/W1, 279-282.	0.2	1
100	EARLY DETECTION OF FOREST DROUGHT STRESS WITH VERY HIGH RESOLUTION STEREO AND HYPERSPECTRAL IMAGERY. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, V-2-2020, 781-787.	0.0	1
101	GA-Net-Pyramid: An Efficient End-to-End Network for Dense Matching. Remote Sensing, 2022, 14, 1942.	1.8	1
102	LONG-TERM TRACKING OF A SPECIFIC VEHICLE USING AIRBORNE OPTICAL CAMERA SYSTEMS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B2, 521-525.	0.2	0
103	BUILDING DETECTION USING AERIAL IMAGES AND DIGITAL SURFACE MODELS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-1/W1, 159-165.	0.2	0
104	DENSE MATCHING COMPARISON BETWEEN CENSUS AND A CONVOLUTIONAL NEURAL NETWORK ALGORITHM FOR PLANT RECONSTRUCTION. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-2, 303-309.	0.0	0
105	RULE-BASED MAPPING OF PARKED VEHICLES USING AERIAL IMAGE SEQUENCES. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-2/W7, 95-101.	0.0	0
106	TREE DROUGHT STRESS DETECTION BASED ON 3D MODELLING. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-2/W7, 205-210.	0.0	0
107	SINGLE-IMAGE DEHAZING ON AERIAL IMAGERY USING CONVOLUTIONAL NEURAL NETWORKS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-4/W18, 687-692.	0.2	0
108	GAN-Generated Elevation Models in Computational Fluid Dynamics: A Feasibility Study for Complex Urban Terrain. , 2020, , .		0