Dirk Tiede

List of Publications by Year
in descending order

85 papers	5,355 citations	159358 30 h-index	106150 65 g-index
90 all docs	90 docs citations	90 times ranked	5265 citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping of Dwellings in IDP/Refugee Settlements from Very High-Resolution Satellite Imagery Using a Mask Region-Based Convolutional Neural Network. Remote Sensing, 2022, 14, 689.	1.8	9
2	UAV-Based Forest Health Monitoring: A Systematic Review. Remote Sensing, 2022, 14, 3205.	1.8	74
3	Inferring 2D Local Surface-Deformation Velocities Based on PSI Analysis of Sentinel-1 Data: A Case Study of Ã–rÃ¦fajÃ¶kull, Iceland. Remote Sensing, 2022, 14, 3166.	1.8	2
4	Transferable instance segmentation of dwellings in a refugee camp - integrating CNN and OBIA. European Journal of Remote Sensing, 2021, 54, 127-140.	1.7	26
5	Investigating ESA Sentinel-2 products' systematic cloud cover overestimation in very high altitude areas. Remote Sensing of Environment, 2021, 252, 112163.	4.6	10
6	Digital	Earth	observation. European Journal of Remote Sensing, 2021, 54, 1-5.	1.7	2
7	Contributory-BÃ¼rgerwissenschaften und naturrÃ¤umliche Fragestellungen - Empfehlungen zur Umsetzung webbasierter Anwendungen am Beispiel des citizenMorph-Projektes. Naturschutz Und Landschaftsplanung, 2021, 53, 14-23.	0.2	0
8	Mask Râ€CNNâ€based building extraction from VHR satellite data in operational humanitarian action: An example related to Covidâ€19 response in Khartoum, Sudan. Transactions in GIS, 2021, 25, 1213-1227.	1.0	21
9	The Austrian Semantic EO Data Cube Infrastructure. Remote Sensing, 2021, 13, 4807.	1.8	8
10	Big Earth data: disruptive changes in Earth observation data management and analysis?. International Journal of Digital Earth, 2020, 13, 832-850.	1.6	114
11	Assessing global Sentinel-2 coverage dynamics and data availability for operational Earth observation (EO) applications using the EO-Compass. International Journal of Digital Earth, 2020, 13, 768-784.	1.6	38
12	Earth observation tools and services to increase the effectiveness of humanitarian assistance. European Journal of Remote Sensing, 2020, 53, 67-85.	1.7	31
13	Assessment of Landslide-Induced Geomorphological Changes in HÃtardalur Valley, Iceland, Using Sentinel-1 and Sentinel-2 Data. Applied Sciences (Switzerland), 2020, 10, 5848.	1.3	17
14	Semantic Segmentation of Sentinel-2 Imagery for Mapping Irrigation Center Pivots. Remote Sensing, 2020, 12, 3937.	1.8	10
15	Monitoring long-term shoreline dynamics and human activities in the Hangzhou Bay, China, combining daytime and nighttime EO data. Big Earth Data, 2020, 4, 242-264.	2.0	16
16	Estimating urban population patterns from stereo-satellite imagery. European Journal of Remote Sensing, 2019, 52, 12-25.	1.7	14
17	Semantic Earth Observation Data Cubes. Data, 2019, 4, 102.	1.2	47
18	Geobia Achievements and Spatial Opportunities in the Era of Big Earth Observation Data. ISPRS International Journal of Geo-Information, 2019, 8, 474.	1.4	29

#	ARTICLE	IF	CITATIONS
19	Evaluation of Different Machine Learning Methods and Deep-Learning Convolutional Neural Networks for Landslide Detection. Remote Sensing, 2019, 11, 196.	1.8	485
20	Exploring semantic elements for urban scene recognition: Deep integration of high-resolution imagery and OpenStreetMap (OSM). ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 151, 237-250.	4.9	49
21	Proof of concept of a novel cloud computing approach for object-based remote sensing data analysis and classification. GIScience and Remote Sensing, 2019, 56, 536-553.	2.4	11
22	Semantic and syntactic interoperability in online processing of big Earth observation data. International Journal of Digital Earth, 2018, 11, 95-112.	1.6	29
23	AutoCloud+, a "Universal" Physical and Statistical Model-Based 2D Spatial Topology-Preserving Software for Cloud/Cloud–Shadow Detection in Multi-Sensor Single-Date Earth Observation Multi-Spectral Imagery—Part 1: Systematic ESA EO Level 2 Product Generation at the Ground Segment as Broad Context. ISPRS International Journal of Geo-Information, 2018, 7, 457.	1.4	11
24	GEO-CEOS stage 4 validation of the Satellite Image Automatic Mapper lightweight computer program for ESA Earth observation level 2 product generation – Part 2: Validation. Cogent Geoscience, 2018, 4, 1467254.	0.6	6
25	GEO-CEOS stage 4 validation of the Satellite Image Automatic Mapper lightweight computer program for ESA Earth observation level 2 product generation - Part 1: Theory. Cogent Geoscience, 2018, 4, 1467357.	0.6	7
26	Evaluation of Different Machine Learning Algorithms for Scalable Classification of Tree Types and Tree Species Based on Sentinel-2 Data. Remote Sensing, 2018, 10, 1419.	1.8	109
27	Spatial risk assessment of opium poppy cultivation in Afghanistan: integrating environmental and socio-economic drivers. International Journal of Digital Earth, 2017, 10, 719-736.	1.6	4
28	ZonalMetrics -Âa Python toolbox for zonal landscape structure analysis. Computers and Geosciences, 2017, 99, 91-99.	2.0	32
29	Architecture and prototypical implementation of a semantic querying system for big Earth observation image bases. European Journal of Remote Sensing, 2017, 50, 452-463.	1.7	18
30	Terrain Extraction in Built-Up Areas from Satellite Stereo-Imagery-Derived Surface Models: A Stratified Object-Based Approach. ISPRS International Journal of Geo-Information, 2017, 6, 9.	1.4	8
31	Evaluation of Feature Selection Methods for Object-Based Land Cover Mapping of Unmanned Aerial Vehicle Imagery Using Random Forest and Support Vector Machine Classifiers. ISPRS International Journal of Geo-Information, 2017, 6, 51.	1.4	164
32	Evaluating fuzzy operators of an object-based image analysis for detecting landslides and their changes. Geomorphology, 2017, 293, 240-254.	1.1	61
33	Stratified Template Matching to Support Refugee Camp Analysis in OBIA Workflows. Remote Sensing, 2017, 9, 326.	1.8	20
34	Is Spatial Resolution Critical in Urbanization Velocity Analysis? Investigations in the Pearl River Delta. Remote Sensing, 2017, 9, 80.	1.8	7
35	Object-Based Change Detection in Urban Areas: The Effects of Segmentation Strategy, Scale, and Feature Space on Unsupervised Methods. Remote Sensing, 2016, 8, 761.	1.8	74
36	A building extraction approach for Airborne Laser Scanner data utilizing the Object Based Image Analysis paradigm. International Journal of Applied Earth Observation and Geoinformation, 2016, 52, 137-148.	1.4	34

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37	Processing of Extremely High Resolution LiDAR and RGB Data: Outcome of the 2015 IEEE GRSS Data Fusion Contestâ€"Part B: 3-D Contest. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 5560-5575.	2.3	37
38	A systematic comparison of different object-based classification techniques using high spatial resolution imagery in agricultural environments. International Journal of Applied Earth Observation and Geoinformation, 2016, 49, 87-98.	1.4	141
39	Monitoring recovery after earthquakes through the integration of remote sensing, GIS, and ground observations: the case of Lâ€™Aquila (Italy). Cartography and Geographic Information Science, 2016, 43, 115-133.	1.4	38
40	Small scale landform mapping by integrated optical (2D) and terrain (3D) UAV data. , 2016, , .		0
41	Template matching to support earth observation based refugee camp analysis in obia workflows - creation and evaluation of a dwelling template library for improving dwelling extraction within an object-based framework. , 2016, , .		1
42	Building Extraction from Airborne Laser Scanning Data: An Analysis of the State of the Art. Remote Sensing, 2015, 7, 3826-3862.	1.8	77
43	Geospatial 2D and 3D object-based classification and 3D reconstruction of ISO-containers depicted in a LiDAR data set and aerial imagery of a harbor. , 2015, , .		1
44	A uniform measurement expression for cross method comparison of nanoparticle aggregate size distributions. Analyst, The, 2015, 140, 5257-5267.	1.7	14
45	Earth Observation-Based Dwelling Detection Approaches in a Highly Complex Refugee Camp Environment â€" A Comparative Study. Remote Sensing, 2014, 6, 9277-9297.	1.8	26
46	Detection of Gully-Affected Areas by Applying Object-Based Image Analysis (OBIA) in the Region of Taroudannt, Morocco. Remote Sensing, 2014, 6, 8287-8309.	1.8	49
47	A new geospatial overlay method for the analysis and visualization of spatial change patterns using object-oriented data modeling concepts. Cartography and Geographic Information Science, 2014, 41, 227-234.	1.4	26
48	Geons â€" domain-specific regionalization of space. Cartography and Geographic Information Science, 2014, 41, 214-226.	1.4	37
49	Automated parameterisation for multi-scale image segmentation on multiple layers. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 88, 119-127.	4.9	504
50	Geographic Object-Based Image Analysis â€" Towards a new paradigm. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 87, 180-191.	4.9	1,167
51	Modeling Hotspots of Climate Change in the Sahel Using Object-Based Regionalization of Multidimensional Gridded Datasets. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 229-234.	2.3	21
52	Mapping recent built-up area changes in the city of Harare with high resolution satellite imagery. Applied Geography, 2014, 46, 35-44.	1.7	38
53	Automated Analysis of Satellite Imagery to provide Information Products for Humanitarian Relief Operations in Refugee Camps - from Scientific Development towards Operational Services. Photogrammetrie, Fernerkundung, Geoinformation, 2013, 2013, 185-195.	1.2	15
54	Spatial and thematic assessment of object-based forest stand delineation using an OFA-matrix. International Journal of Applied Earth Observation and Geoinformation, 2012, 19, 214-225.	1.4	24

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55	Integrated assessment of the environmental impact of an IDP camp in Sudan based on very high resolution multi-temporal satellite imagery. Remote Sensing of Environment, 2012, 126, 27-38.	4.6	84
56	Virtual Globes: Serving Science and Society. Information (Switzerland), 2012, 3, 372-390.	1.7	38
57	Automated Damage Indication for Rapid Geospatial Reporting. Photogrammetric Engineering and Remote Sensing, 2011, 77, 933-942.	0.3	44
58	Automatic Geographic Object Based Mapping of Streambed and Riparian Zone Extent from LiDAR Data in a Temperate Rural Urban Environment, Australia. Remote Sensing, 2011, 3, 1139-1156.	1.8	38
59	Object-based Class Modeling for Cadastre-constrained Delineation of Geo-objects. Photogrammetric Engineering and Remote Sensing, 2010, 76, 193-202.	0.3	52
60	Analytical 3D views and virtual globes â€" scientific results in a familiar spatial context. ISPRS Journal of Photogrammetry and Remote Sensing, 2010, 65, 300-307.	4.9	29
61	Object validity for operational tasks in a policy context. Journal of Spatial Science, 2010, 55, 9-22.	1.0	73
62	Application of hydrodynamic chromatography-ICP-MS to investigate the fate of silver nanoparticles in activated sludge. Journal of Analytical Atomic Spectrometry, 2010, 25, 1149.	1.6	150
63	ESP: a tool to estimate scale parameter for multiresolution image segmentation of remotely sensed data. International Journal of Geographical Information Science, 2010, 24, 859-871.	2.2	708
64	Earth observation (EO)-based <i>ex post</i> assessment of internally displaced person (IDP) camp evolution and population dynamics in Zam Zam, Darfur. International Journal of Remote Sensing, 2010, 31, 5709-5731.	1.3	67
65	GMES Services for Conflict Prevention and Mitigation: Supporting the DG RELEX in Mission Planning. Lecture Notes in Geoinformation and Cartography, 2010, , 171-188.	0.5	5
66	IDP camp evolvement analysis in Darfur using VHSR optical satellite image time series and scientific visualization on virtual globes. Proceedings of SPIE, 2009, , .	0.8	2
67	A robust size-characterisation methodology for studying nanoparticle behaviour in â€˜realâ€™ environmental samples, using hydrodynamic chromatography coupled to ICP-MS. Journal of Analytical Atomic Spectrometry, 2009, 24, 964.	1.6	137
68	Data Integration and Visualization for Crisis Applications. , 2009, , 141-160.		0
69	Domain-specific class modelling for one-level representation of single trees. Lecture Notes in Geoinformation and Cartography, 2008, , 133-151.	0.5	9
70	Damage assessment in townships using VHSR data; The effect of Operation Murambatsvina / Restore Order in Harare, Zimbabwe. , 2007, , .		3
71	Individual object delineation revising cadastral boundaries by means of VHSR data. , 2007, , .		0
72	One GUI to Rule Them All: Accessing Multiple Semantic EO Data Cubes in One Graphical User Interface. GI_Forum, 0, 1, 53-59.	0.2	3

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73	Monitoring Displaced People in Crisis Situations Using Multi-temporal VHR Satellite Data During Humanitarian Operations in South Sudan. GI_Forum, 0, 1, 391-401.	0.2	2
74	Don'€™t See the Dwellings for the Trees: Quantifying the Effect of Tree Growth on Multi-temporal Dwelling Extraction in a Refugee Camp. GI_Forum, 0, 1, 406-415.	0.2	3
75	An Earth Observation-based Approach for the Assessment of the Environmental Impact of Refugee and IDP Camps. GI_Forum, 0, 1, 420-423.	0.2	1
76	Long-term Monitoring of the Environmental Impact of a Refugee Camp Based on Landsat Time Series: The Example of Deforestation and Reforestation During the whole Lifespan of the Camp Lukole, Tanzania. GI_Forum, 0, 1, 434-437.	0.2	6
77	Automatic Ex-post Flood Assessment Using Long Time Series of Optical Earth Observation Images. GI_Forum, 0, 1, 217-227.	0.2	6
78	Big Earth Data: From Data to Information. GI_Forum, 0, 1, 184-193.	0.2	13
79	A Semantic Earth Observation Data Cube for Monitoring Environmental Changes during the Syrian Conflict. GI_Forum, 0, 1, 214-227.	0.2	6
80	Automated near real-time earth observation level 2 product generation for semantic querying. , 0, , .		4
81	DWELLING EXTRACTION IN REFUGEE CAMPS USING CNN â€" FIRST EXPERIENCES AND LESSONS LEARNT. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-1, 161-166.	0.2	20
82	PROVIDING DATA QUALITY INFORMATION FOR REMOTE SENSING APPLICATIONS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3, 15-22.	0.2	4
83	OBJECT-BASED IMAGE ANALYSIS BEYOND REMOTE SENSING â€" THE HUMAN PERSPECTIVE. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B7, 879-882.	0.2	1
84	ASSESSMENT OF LANDSLIDE-INDUCED MORPHOLOGY CHANGES USING AN OBJECT-BASED IMAGE ANALYSIS APPROACH: A CASE STUDY OF HÃ·TARDALUR, ICELAND. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3/W8, 109-114.	0.2	0
85	Implementing Geo Citizen Science Solutions: Experiences from the citizenMorph Project. GI_Forum, 0, 1, 3-14.	0.2	2