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	Geographic Object-Based Image Analysis – Towards a new paradigm. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 87, 180-191.	4.9	1,167
2	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
3	Automated parameterisation for multi-scale image segmentation on multiple layers. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 88, 119-127.	4.9	504
4	Evaluation of Different Machine Learning Methods and Deep-Learning Convolutional Neural Networks for Landslide Detection. Remote Sensing, 2019, 11, 196.	1.8	485
5	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
6	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
7	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
8	A robust size-characterisation methodology for studying nanoparticle behaviour in 'real' environmental samples, using hydrodynamic chromatography coupled to ICP-MS. Journal of Analytical Atomic Spectrometry, 2009, 24, 964.	1.6	137
9	Big Earth data: disruptive changes in Earth observation data management and analysis?. International Journal of Digital Earth, 2020, 13, 832-850.	1.6	114
10	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
11	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
12	Building Extraction from Airborne Laser Scanning Data: An Analysis of the State of the Art. Remote Sensing, 2015, 7, 3826-3862.	1.8	77
13	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
14	UAV-Based Forest Health Monitoring: A Systematic Review. Remote Sensing, 2022, 14, 3205.	1.8	74
15	Object validity for operational tasks in a policy context. Journal of Spatial Science, 2010, 55, 9-22.	1.0	73
16	Earth observation (EO)-based *ex post* 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
17	Evaluating fuzzy operators of an object-based image analysis for detecting landslides and their changes. Geomorphology, 2017, 293, 240-254.	1.1	61
18	Object-based Class Modeling for Cadastre-constrained Delineation of Geo-objects. Photogrammetric Engineering and Remote Sensing, 2010, 76, 193-202.	0.3	52

#	ARTICLE	IF	CITATIONS
19	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
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	Semantic Earth Observation Data Cubes. Data, 2019, 4, 102.	1.2	47
22	Automated Damage Indication for Rapid Geospatial Reporting. Photogrammetric Engineering and Remote Sensing, 2011, 77, 933-942.	0.3	44
23	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
24	Virtual Globes: Serving Science and Society. Information (Switzerland), 2012, 3, 372-390.	1.7	38
25	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
26	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
27	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
28	Geons â€" domain-specific regionalization of space. Cartography and Geographic Information Science, 2014, 41, 214-226.	1.4	37
29	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
30	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
31	ZonalMetrics -Âa Python toolbox for zonal landscape structure analysis. Computers and Geosciences, 2017, 99, 91-99.	2.0	32
32	Earth observation tools and services to increase the effectiveness of humanitarian assistance. European Journal of Remote Sensing, 2020, 53, 67-85.	1.7	31
33	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
34	Semantic and syntactic interoperability in online processing of big Earth observation data. International Journal of Digital Earth, 2018, 11, 95-112.	1.6	29
35	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
36	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

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37	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
38	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
39	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
40	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
41	Mask R‐CNN‐based building extraction from VHR satellite data in operational humanitarian action: An example related to Covid‐19 response in Khartoum, Sudan. Transactions in GIS, 2021, 25, 1213-1227.	1.0	21
42	Stratified Template Matching to Support Refugee Camp Analysis in OBIA Workflows. Remote Sensing, 2017, 9, 326.	1.8	20
43	DWELLING EXTRACTION IN REFUGEE CAMPS USING CNN – 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
44	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
45	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
46	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
47	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
48	A uniform measurement expression for cross method comparison of nanoparticle aggregate size distributions. Analyst, The, 2015, 140, 5257-5267.	1.7	14
49	Estimating urban population patterns from stereo-satellite imagery. European Journal of Remote Sensing, 2019, 52, 12-25.	1.7	14
50	Big Earth Data: From Data to Information. GI_Forum, 0, 1, 184-193.	0.2	13
51	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
52	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
53	Semantic Segmentation of Sentinel-2 Imagery for Mapping Irrigation Center Pivots. Remote Sensing, 2020, 12, 3937.	1.8	10
54	Investigating ESA Sentinel-2 products' systematic cloud cover overestimation in very high altitude areas. Remote Sensing of Environment, 2021, 252, 112163.	4.6	10

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55	Domain-specific class modelling for one-level representation of single trees. Lecture Notes in Geoinformation and Cartography, 2008, , 133-151.	0.5	9
56	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
57	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
58	The Austrian Semantic EO Data Cube Infrastructure. Remote Sensing, 2021, 13, 4807.	1.8	8
59	Is Spatial Resolution Critical in Urbanization Velocity Analysis? Investigations in the Pearl River Delta. Remote Sensing, 2017, 9, 80.	1.8	7
60	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
61	GEO-CEOS stage 4 validation of the Satellite Image Automatic Mapper lightweight computer program for ESA Earth observation level 2 product generation â€" Part 2: Validation. Cogent Geoscience, 2018, 4, 1467254.	0.6	6
62	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
63	Automatic Ex-post Flood Assessment Using Long Time Series of Optical Earth Observation Images. GI_Forum, 0, 1, 217-227.	0.2	6
64	A Semantic Earth Observation Data Cube for Monitoring Environmental Changes during the Syrian Conflict. GI_Forum, 0, 1, 214-227.	0.2	6
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	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
67	Automated near real-time earth observation level 2 product generation for semantic querying. , 0, , .		4
68	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
69	Damage assessment in townships using VHSR data; The effect of Operation Murambatsvina / Restore Order in Harare, Zimbabwe. , 2007, , .		3
70	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
71	Donâ€™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
72	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

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73	Digital | Earth | observation. European Journal of Remote Sensing, 2021, 54, 1-5.	1.7	2
74	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
75	Implementing Geo Citizen Science Solutions: Experiences from the citizenMorph Project. GI_Forum, 0, 1, 3-14.	0.2	2
76	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
77	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
78	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
79	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
80	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
81	Individual object delineation revising cadastral boundaries by means of VHSR data. , 2007, , .		0
82	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
83	Data Integration and Visualization for Crisis Applications. , 2009, , 141-160.		0
84	Small scale landform mapping by integrated optical (2D) and terrain (3D) UAV data. , 2016, , .		0
85	ASSESSMENT OF LANDSLIDE-INDUCED MORPHOLOGY CHANGES USING AN OBJECT-BASED IMAGE ANALYSIS APPROACH: A CASE STUDY OF HÃÆARDALUR, ICELAND. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3/W8, 109-114.	0.2	0