

# Tim Van de Voorde

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,237  
citations

394421

19  
h-index

377865

34  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1433  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping form and function in urban areas: An approach based on urban metrics and continuous impervious surface data. <i>Landscape and Urban Planning</i> , 2011, 102, 143-155.	7.5	140
2	Evaluation of the DisTrad thermal sharpening methodology for urban areas. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012, 19, 163-172.	2.8	100
3	Improving Distributed Runoff Prediction in Urbanized Catchments with Remote Sensing based Estimates of Impervious Surface Cover. <i>Sensors</i> , 2008, 8, 910-932.	3.8	82
4	A comparison of two spectral mixture modelling approaches for impervious surface mapping in urban areas. <i>International Journal of Remote Sensing</i> , 2009, 30, 4785-4806.	2.9	66
5	Fast Automatic Airport Detection in Remote Sensing Images Using Convolutional Neural Networks. <i>Remote Sensing</i> , 2018, 10, 443.	4.0	66
6	Open water detection in urban environments using high spatial resolution remote sensing imagery. <i>Remote Sensing of Environment</i> , 2020, 242, 111706.	11.0	55
7	Comparing Different Approaches for Mapping Urban Vegetation Cover from Landsat ETM+ Data: A Case Study on Brussels. <i>Sensors</i> , 2008, 8, 3880-3902.	3.8	54
8	Assessing urbanisation effects on rainfall-runoff using a remote sensing supported modelling strategy. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2013, 21, 92-102.	2.8	54
9	Multiple Endmember Unmixing of CHRIS/Proba Imagery for Mapping Impervious Surfaces in Urban and Suburban Environments. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 3409-3424.	6.3	49
10	Coupled SSPs-RCPs scenarios to project the future dynamic variations of water-soil-carbon-biodiversity services in Central Asia. <i>Ecological Indicators</i> , 2021, 129, 107936.	6.3	46
11	Human and Natural Impacts on the Water Resources in the Syr Darya River Basin, Central Asia. <i>Sustainability</i> , 2019, 11, 3084.	3.2	44
12	Which environmental features contribute to positive and negative perceptions of urban parks? A cross-cultural comparison using online reviews and Natural Language Processing methods. <i>Landscape and Urban Planning</i> , 2022, 218, 104307.	7.5	44
13	A global horizon scan of the future impacts of robotics and autonomous systems on urban ecosystems. <i>Nature Ecology and Evolution</i> , 2021, 5, 219-230.	7.8	39
14	Mapping urban land cover from high spatial resolution hyperspectral data: An approach based on simultaneously unmixing similar pixels with jointly sparse spectral mixture analysis. <i>Remote Sensing of Environment</i> , 2017, 196, 324-342.	11.0	30
15	Spatially explicit urban green indicators for characterizing vegetation cover and public green space proximity: a case study on Brussels, Belgium. <i>International Journal of Digital Earth</i> , 2017, 10, 798-813.	3.9	30
16	Quantifying uncertainty in remote sensing-based urban land-use mapping. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2014, 31, 154-166.	2.8	27
17	A novel causal structure-based framework for comparing a basin-wide water-“energy”-food-ecology nexus applied to the data-limited Amu Darya and Syr Darya river basins. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 901-925.	4.9	26
18	Impact of remotely sensed land-cover proportions on urban runoff prediction. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012, 16, 54-65.	2.8	24

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19	Projecting alternative urban growth patterns: The development and application of a remote sensing assisted calibration framework for the Greater Dublin Area. <i>Ecological Indicators</i> , 2016, 60, 1056-1069.	6.3	23
20	Attribution of changes in the trend and temporal non-uniformity of extreme precipitation events in Central Asia. <i>Scientific Reports</i> , 2021, 11, 15032.	3.3	23
21	Identification of conservation priorities in the major basins of Central Asia: Using an integrated GIS-based ordered weighted averaging approach. <i>Journal of Environmental Management</i> , 2021, 298, 113442.	7.8	18
22	Impacts of climate change and evapotranspiration on shrinkage of Aral Sea. <i>Science of the Total Environment</i> , 2022, 845, 157203.	8.0	18
23	Inferring urban land use using the optimised spatial reclassification kernel. <i>Environmental Modelling and Software</i> , 2011, 26, 1279-1288.	4.5	16
24	An extreme rainfall event in summer 2018 of Hami city in eastern Xinjiang, China. <i>Advances in Climate Change Research</i> , 2021, 12, 795-803.	5.1	13
25	Full Hierarchic Versus Non-Hierarchic Classification Approaches for Mapping Sealed Surfaces at the Rural-Urban Fringe Using High-Resolution Satellite Data. <i>Sensors</i> , 2009, 9, 22-45.	3.8	12
26	Land cover mapping in urban environments using hyperspectral APEX data: A study case in Baden, Switzerland. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018, 71, 70-82.	2.8	12
27	Automatic detection of burial mounds (kurgans) in the Altai Mountains. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021, 177, 217-237.	11.1	12
28	Using remote sensing derived spatial metrics for the calibration of land-use change models. , 2009, , .		11
29	Preliminary Results of Superresolution-Enhanced Angular Hyperspectral (CHRIS/Proba) Images for Land-Cover Classification. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2011, 8, 1011-1015.	3.1	11
30	Spatiotemporal variation of agroecosystem service trade-offs and its driving factors across different climate zones. <i>Ecological Indicators</i> , 2021, 130, 108154.	6.3	11
31	A Remote Sensing Based Calibration Framework for the MOLAND Urban Growth Model of Dublin. <i>International Journal of Agricultural and Environmental Information Systems</i> , 2012, 3, 1-21.	2.0	9
32	Remote sensing data assimilation in modeling urban dynamics: Objectives and methodology. <i>Procedia Environmental Sciences</i> , 2011, 7, 140-145.	1.4	8
33	A Global Meta-Analysis of Soil Salinity Prediction Integrating Satellite Remote Sensing, Soil Sampling, and Machine Learning. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-15.	6.3	8
34	Improved distributed runoff modelling of urbanised catchments by integration of multi-resolution remote sensing. , 2007, , .		7
35	Quantifying intra-urban morphology of the Greater Dublin area with spatial metrics derived from medium resolution remote sensing data. , 2009, , .		6
36	Estimation of Photosynthetic and Non-Photosynthetic Vegetation Coverage in the Lower Reaches of Tarim River Based on Sentinel-2A Data. <i>Remote Sensing</i> , 2021, 13, 1458.	4.0	6

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37	Description and Attribution Analysis of the 2017 Spring Anomalous High Temperature Causing Floods in Kazakhstan. Journal of the Meteorological Society of Japan, 2020, 98, 1353-1368.	1.8	6
38	Detection of Ground Materials Using Normalized Difference Indices with a Threshold: Risk and Ways to Improve. Remote Sensing, 2021, 13, 450.	4.0	5
39	Analysis of the Impacts of Environmental Factors on Rat Hole Density in the Northern Slope of the Tianshan Mountains with Satellite Remote Sensing Data. Remote Sensing, 2021, 13, 4709.	4.0	5
40	Binary Classification Strategies for Mapping Urban Land Cover with Ensemble Classifiers. , 2008, , .		4
41	Measuring and modeling urban dynamics: impact on quality of life and hydrology. , 2007, , .		3
42	Mapping sealed surfaces from CHRIS/Proba data: A multiple endmember unmixing approach. , 2010, , .		3
43	Airplane Recognition from Remote Sensing Images with Deep Convolutional Neural Network. , 2020, , .		3
44	A novel hybrid sand and dust storm detection method using MODIS data on GEE platform. European Journal of Remote Sensing, 2022, 55, 420-428.	3.5	2
45	Urban Land Cover Mapping from Airborne Hyperspectral Imagery Using a Fast Jointly Sparse Spectral Mixture Analysis Method. Canadian Journal of Remote Sensing, 2020, 46, 330-343.	2.4	1
46	A Comprehensive Study of Geochemical Data Storage Performance Based on Different Management Methods. Remote Sensing, 2021, 13, 3208.	4.0	1
47	Improving the Calibration of the MOLAND Urban Growth Model with Land-Use Information Derived from a Time-Series of Medium Resolution Remote Sensing Data. Lecture Notes in Computer Science, 2010, , 89-104.	1.3	1
48	Deriving urban land use with metric-based signatures: Comparing Landsat ETM+ and SPOT 5 imagery. , 2011, , .		0
49	Mapping the uncertainty of changes in vegetation cover in and around the brussels capital region. , 2013, , .		0
50	A GIS-BASED MULTI-CRITERIA ANALYSIS ON CROPLAND SUITABILITY IN BORNUUR SOUM, MONGOLIA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B4-2020, 149-156.	0.2	0