

# Jungho Im

## List of Publications by Year in descending order

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130  
papers

8,857  
citations

66234

42  
h-index

45213

90  
g-index

132  
all docs

132  
docs citations

132  
times ranked

9400  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved retrievals of aerosol optical depth and fine mode fraction from GOCI geostationary satellite data using machine learning over East Asia. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 183, 253-268.	4.9	33
2	A Novel Tropical Cyclone Size Estimation Model Based on a Convolutional Neural Network Using Geostationary Satellite Imagery. Remote Sensing, 2022, 14, 426.	1.8	6
3	High-Resolution Seamless Daily Sea Surface Temperature Based on Satellite Data Fusion and Machine Learning over Kuroshio Extension. Remote Sensing, 2022, 14, 575.	1.8	11
4	A novel ensemble learning for post-processing of NWP Model's next-day maximum air temperature forecast in summer using deep learning and statistical approaches. Weather and Climate Extremes, 2022, 35, 100410.	1.6	21
5	Development of <scp>model output statistics</scp> based on <scp>the least absolute shrinkage and selection operator</scp> regression for forecasting nextâ€day maximum temperature in South Korea. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 1929-1944.	1.0	3
6	All-Sky 1 km MODIS Land Surface Temperature Reconstruction Considering Cloud Effects Based on Machine Learning. Remote Sensing, 2022, 14, 1815.	1.8	13
7	Global sea surface salinity via the synergistic use of SMAP satellite and HYCOM data based on machine learning. Remote Sensing of Environment, 2022, 273, 112980.	4.6	18
8	Improved soil moisture estimation: Synergistic use of satellite observations and land surface models over CONUS based on machine learning. Journal of Hydrology, 2022, 609, 127749.	2.3	7
9	Air Quality Forecasts Improved by Combining Data Assimilation and Machine Learning With Satellite AOD. Geophysical Research Letters, 2022, 49, .	1.5	10
10	Geostationary satellite-derived ground-level particulate matter concentrations using real-time machine learning in Northeast Asia. Environmental Pollution, 2022, 306, 119425.	3.7	5
11	Downscaling MODIS nighttime land surface temperatures in urban areas using ASTER thermal data through local linear forest. International Journal of Applied Earth Observation and Geoinformation, 2022, 110, 102827.	0.9	7
12	A new drought monitoring approach: Vector Projection Analysis (VPA). Remote Sensing of Environment, 2021, 252, 112145.	4.6	23
13	Improvement of SMAP sea surface salinity in river-dominated oceans using machine learning approaches. GIScience and Remote Sensing, 2021, 58, 138-160.	2.4	26
14	Estimation of Spatially Continuous Near-Surface Relative Humidity Over Japan and South Korea. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 8614-8626.	2.3	5
15	On the use of machine learning based ensemble approaches to improve evapotranspiration estimates from croplands across a wide environmental gradient. Agricultural and Forest Meteorology, 2021, 298-299, 108308.	1.9	21
16	Pre-trained feature aggregated deep learning-based monitoring of overshooting tops using multi-spectral channels of GeoKompasat-2A advanced meteorological imagery. GIScience and Remote Sensing, 2021, 58, 1052-1071.	2.4	13
17	Aerosol data assimilation and forecast using Geostationary Ocean Color Imager aerosol optical depth and in-situ observations during the KORUS-AQ observing period. GIScience and Remote Sensing, 2021, 58, 1175-1194.	2.4	11
18	Estimation of surface-level NO2 and O3 concentrations using TROPOMI data and machine learning over East Asia. Environmental Pollution, 2021, 288, 117711.	3.7	73

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19	Estimating ground-level particulate matter concentrations using satellite-based data: a review. <i>GIScience and Remote Sensing</i> , 2020, 57, 174-189.	2.4	62
20	Forest and Crop Leaf Area Index Estimation Using Remote Sensing: Research Trends and Future Directions. <i>Remote Sensing</i> , 2020, 12, 2934.	1.8	19
21	Developing a New Hourly Forest Fire Risk Index Based on Catboost in South Korea. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8213.	1.3	24
22	Synergistic Use of Hyperspectral UV-Visible OMI and Broadband Meteorological Imager MODIS Data for a Merged Aerosol Product. <i>Remote Sensing</i> , 2020, 12, 3987.	1.8	9
23	Improving Local Climate Zone Classification Using Incomplete Building Data and Sentinel 2 Images Based on Convolutional Neural Networks. <i>Remote Sensing</i> , 2020, 12, 3552.	1.8	25
24	Short-Term Forecasting of Satellite-Based Drought Indices Using Their Temporal Patterns and Numerical Model Output. <i>Remote Sensing</i> , 2020, 12, 3499.	1.8	16
25	Improvement of spatial interpolation accuracy of daily maximum air temperature in urban areas using a stacking ensemble technique. <i>GIScience and Remote Sensing</i> , 2020, 57, 633-649.	2.4	41
26	Estimation of All-Weather 1 km MODIS Land Surface Temperature for Humid Summer Days. <i>Remote Sensing</i> , 2020, 12, 1398.	1.8	34
27	Prediction of monthly Arctic sea ice concentrations using satellite and reanalysis data based on convolutional neural networks. <i>Cryosphere</i> , 2020, 14, 1083-1104.	1.5	48
28	Comparative Assessment of Various Machine Learning-Based Bias Correction Methods for Numerical Weather Prediction Model Forecasts of Extreme Air Temperatures in Urban Areas. <i>Earth and Space Science</i> , 2020, 7, e2019EA000740.	1.1	88
29	Object-based landfast sea ice detection over West Antarctica using time series ALOS PALSAR data. <i>Remote Sensing of Environment</i> , 2020, 242, 111782.	4.6	14
30	Earth observations and geographic information science for sustainable development goals. <i>GIScience and Remote Sensing</i> , 2020, 57, 591-592.	2.4	14
31	Recent ENSO influence on East African drought during rainy seasons through the synergistic use of satellite and reanalysis data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 162, 17-26.	4.9	22
32	Estimation of spatially continuous daytime particulate matter concentrations under all sky conditions through the synergistic use of satellite-based AOD and numerical models. <i>Science of the Total Environment</i> , 2020, 713, 136516.	3.9	39
33	Tropical Cyclone Intensity Estimation Using Multi-Dimensional Convolutional Neural Networks from Geostationary Satellite Data. <i>Remote Sensing</i> , 2020, 12, 108.	1.8	60
34	Different Spectral Domain Transformation for Land Cover Classification Using Convolutional Neural Networks with Multi-Temporal Satellite Imagery. <i>Remote Sensing</i> , 2020, 12, 1097.	1.8	13
35	Zooplankton and micronekton respond to climate fluctuations in the Amundsen Sea polynya, Antarctica. <i>Scientific Reports</i> , 2019, 9, 10087.	1.6	22
36	Retrieval of Total Precipitable Water from Himawari-8 AHI Data: A Comparison of Random Forest, Extreme Gradient Boosting, and Deep Neural Network. <i>Remote Sensing</i> , 2019, 11, 1741.	1.8	38

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37	A Novel Framework of Detecting Convective Initiation Combining Automated Sampling, Machine Learning, and Repeated Model Tuning from Geostationary Satellite Data. <i>Remote Sensing</i> , 2019, 11, 1454.	1.8	26
38	Comparison between convolutional neural networks and random forest for local climate zone classification in mega urban areas using Landsat images. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 157, 155-170.	4.9	126
39	Airborne Lidar Sampling Strategies to Enhance Forest Aboveground Biomass Estimation from Landsat Imagery. <i>Remote Sensing</i> , 2019, 11, 1906.	1.8	8
40	Delineation of high resolution climate regions over the Korean Peninsula using machine learning approaches. <i>PLoS ONE</i> , 2019, 14, e0223362.	1.1	14
41	Advances in Remote Sensing-Based Disaster Monitoring and Assessment. <i>Remote Sensing</i> , 2019, 11, 2181.	1.8	8
42	Machine Learning Approaches for Detecting Tropical Cyclone Formation Using Satellite Data. <i>Remote Sensing</i> , 2019, 11, 1195.	1.8	45
43	Estimation of ground-level particulate matter concentrations through the synergistic use of satellite observations and process-based models over South Korea. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1097-1113.	1.9	69
44	Improvement of satellite-based estimation of gross primary production through optimization of meteorological parameters and high resolution land cover information at regional scale over East Asia. <i>Agricultural and Forest Meteorology</i> , 2019, 271, 180-192.	1.9	8
45	Detection and Monitoring of Forest Fires Using Himawari-8 Geostationary Satellite Data in South Korea. <i>Remote Sensing</i> , 2019, 11, 271.	1.8	62
46	Comparison of Five Spatio-Temporal Satellite Image Fusion Models over Landscapes with Various Spatial Heterogeneity and Temporal Variation. <i>Remote Sensing</i> , 2019, 11, 2612.	1.8	35
47	Effects of seasonal variations on sediment-plume streaks from dredging operations. <i>Marine Pollution Bulletin</i> , 2018, 129, 26-34.	2.3	17
48	Deep learning-based monitoring of overshooting cloud tops from geostationary satellite data. <i>GIScience and Remote Sensing</i> , 2018, 55, 763-792.	2.4	16
49	Estimation of daily maximum and minimum air temperatures in urban landscapes using MODIS time series satellite data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 137, 149-162.	4.9	105
50	Impact of seasonal vertical stratification on the dispersion patterns of dredging plumes off the south coast of Korea. <i>Marine Geology</i> , 2018, 395, 14-21.	0.9	11
51	Developing data-driven models for quantifying <i>Cochlodinium polykrikoides</i> using the Geostationary Ocean Color Imager (GOCI). <i>International Journal of Remote Sensing</i> , 2018, 39, 68-83.	1.3	8
52	Prediction of Drought on Pentad Scale Using Remote Sensing Data and MJO Index through Random Forest over East Asia. <i>Remote Sensing</i> , 2018, 10, 1811.	1.8	43
53	Intercomparison of Terrestrial Carbon Fluxes and Carbon Use Efficiency Simulated by CMIP5 Earth System Models. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2018, 54, 145-163.	1.3	15
54	Convolutional Neural Network-Based Land Cover Classification Using 2-D Spectral Reflectance Curve Graphs With Multitemporal Satellite Imagery. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018, 11, 4604-4617.	2.3	26

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55	Arctic lead detection using a waveform mixture algorithm from CryoSat-2 data. <i>Cryosphere</i> , 2018, 12, 1665-1679.	1.5	11
56	Intercomparison of Downscaling Techniques for Satellite Soil Moisture Products. <i>Advances in Meteorology</i> , 2018, 2018, 1-16.	0.6	7
57	Machine Learning Approaches for Estimating Forest Stand Height Using Plot-Based Observations and Airborne LiDAR Data. <i>Forests</i> , 2018, 9, 268.	0.9	37
58	Classification and Mapping of Paddy Rice by Combining Landsat and SAR Time Series Data. <i>Remote Sensing</i> , 2018, 10, 447.	1.8	106
59	Icing Detection over East Asia from Geostationary Satellite Data Using Machine Learning Approaches. <i>Remote Sensing</i> , 2018, 10, 631.	1.8	23
60	Spatiotemporal downscaling approaches for monitoring 8-day 30 m actual evapotranspiration. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 126, 79-93.	4.9	45
61	Drought monitoring using high resolution soil moisture through multi-sensor satellite data fusion over the Korean peninsula. <i>Agricultural and Forest Meteorology</i> , 2017, 237-238, 257-269.	1.9	118
62	Meteorological drought forecasting for ungauged areas based on machine learning: Using long-range climate forecast and remote sensing data. <i>Agricultural and Forest Meteorology</i> , 2017, 237-238, 105-122.	1.9	158
63	CO2 concentration and its spatiotemporal variation in the troposphere using multi-sensor satellite data, carbon tracker, and aircraft observations. <i>GIScience and Remote Sensing</i> , 2017, 54, 592-613.	2.4	2
64	A new optimized algorithm for automating endmember pixel selection in the SEBAL and METRIC models. <i>Remote Sensing of Environment</i> , 2017, 196, 178-192.	4.6	62
65	Detection of deterministic and probabilistic convection initiation using Himawari-8 Advanced Himawari Imager data. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1859-1874.	1.2	44
66	Detection of Tropical Overshooting Cloud Tops Using Himawari-8 Imagery. <i>Remote Sensing</i> , 2017, 9, 685.	1.8	17
67	Estimation of Fugacity of Carbon Dioxide in the East Sea Using In Situ Measurements and Geostationary Ocean Color Imager Satellite Data. <i>Remote Sensing</i> , 2017, 9, 821.	1.8	22
68	Downscaling GLDAS Soil Moisture Data in East Asia through Fusion of Multi-Sensors by Optimizing Modified Regression Trees. <i>Water (Switzerland)</i> , 2017, 9, 332.	1.2	26
69	Arctic Sea Ice Thickness Estimation from CryoSat-2 Satellite Data Using Machine Learning-Based Lead Detection. <i>Remote Sensing</i> , 2016, 8, 698.	1.8	53
70	Retrieval of Melt Ponds on Arctic Multiyear Sea Ice in Summer from TerraSAR-X Dual-Polarization Data Using Machine Learning Approaches: A Case Study in the Chukchi Sea with Mid-Incidence Angle Data. <i>Remote Sensing</i> , 2016, 8, 57.	1.8	23
71	Downscaling of MODIS One Kilometer Evapotranspiration Using Landsat-8 Data and Machine Learning Approaches. <i>Remote Sensing</i> , 2016, 8, 215.	1.8	110
72	Downscaling of AMSR-E soil moisture with MODIS products using machine learning approaches. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	125

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73	Detection of tropical cyclone genesis via quantitative satellite ocean surface wind pattern and intensity analyses using decision trees. <i>Remote Sensing of Environment</i> , 2016, 183, 205-214.	4.6	39
74	Variations in ice velocities of Pine Island Glacier Ice Shelf evaluated using multispectral image matching of Landsat time series data. <i>Remote Sensing of Environment</i> , 2016, 186, 358-371.	4.6	15
75	Enhanced greenhouse gas emission from exposed sediments along a hydroelectric reservoir during an extreme drought event. <i>Environmental Research Letters</i> , 2016, 11, 124003.	2.2	36
76	Spatial and diurnal variations of storm heights in the East Asia summer monsoon: storm height regimes and large-scale diurnal modulation. <i>Climate Dynamics</i> , 2016, 46, 745-763.	1.7	7
77	Chlorophyll- <i>a</i> concentration estimation using three difference bio-optical algorithms, including a correction for the low-concentration range: the case of the Yiam reservoir, Korea. <i>Remote Sensing Letters</i> , 2016, 7, 407-416.	0.6	14
78	Evaluating five remote sensing based single-source surface energy balance models for estimating daily evapotranspiration in a humid subtropical climate. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 49, 75-86.	1.4	94
79	An improved tree crown delineation method based on live crown ratios from airborne LiDAR data. <i>GIScience and Remote Sensing</i> , 2016, 53, 402-419.	2.4	24
80	Drought assessment and monitoring through blending of multi-sensor indices using machine learning approaches for different climate regions. <i>Agricultural and Forest Meteorology</i> , 2016, 216, 157-169.	1.9	229
81	Estimation of Water Quality Index for Coastal Areas in Korea Using GOCI Satellite Data Based on Machine Learning Approaches. <i>Korean Journal of Remote Sensing</i> , 2016, 32, 221-234.	0.4	7
82	Detection of Convective Initiation Using Meteorological Imager Onboard Communication, Ocean, and Meteorological Satellite Based on Machine Learning Approaches. <i>Remote Sensing</i> , 2015, 7, 9184-9204.	1.8	39
83	A Novel Bias Correction Method for Soil Moisture and Ocean Salinity (SMOS) Soil Moisture: Retrieval Ensembles. <i>Remote Sensing</i> , 2015, 7, 16045-16061.	1.8	14
84	A novel transferable individual tree crown delineation model based on Fishing Net Dragging and boundary classification. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 110, 34-47.	4.9	65
85	AMSR2 soil moisture downscaling using multisensor products through machine learning approach. , 2015, , .		9
86	Characteristics of Landsat 8 OLI-derived NDVI by comparison with multiple satellite sensors and in-situ observations. <i>Remote Sensing of Environment</i> , 2015, 164, 298-313.	4.6	198
87	Landfast sea ice monitoring using multisensor fusion in the Antarctic. <i>GIScience and Remote Sensing</i> , 2015, 52, 239-256.	2.4	48
88	Estimating High Spatial Resolution Air Temperature for Regions with Limited in situ Data Using MODIS Products. <i>Remote Sensing</i> , 2014, 6, 7360-7378.	1.8	23
89	Prediction of the Arctic Oscillation in boreal winter by dynamical seasonal forecasting systems. <i>Geophysical Research Letters</i> , 2014, 41, 3577-3585.	1.5	57
90	The MODIS ice surface temperature product as an indicator of sea ice minimum over the Arctic Ocean. <i>Remote Sensing of Environment</i> , 2014, 152, 99-108.	4.6	22

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91	Forest Biomass and Carbon Stock Quantification Using Airborne LiDAR Data: A Case Study Over Huntington Wildlife Forest in the Adirondack Park. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3143-3156.	2.3	69
92	Building type classification using spatial and landscape attributes derived from LiDAR remote sensing data. Landscape and Urban Planning, 2014, 130, 134-148.	3.4	86
93	Machine learning approaches to coastal water quality monitoring using GOCI satellite data. GIScience and Remote Sensing, 2014, 51, 158-174.	2.4	141
94	Estimation of Aboveground Forest Biomass Carbon Stock by Satellite Remote Sensing - A Comparison between k-Nearest Neighbor and Regression Tree Analysis -. Korean Journal of Remote Sensing, 2014, 30, 651-664.	0.4	3
95	Hydrological Drought Assessment and Monitoring Based on Remote Sensing for Ungauged Areas. Korean Journal of Remote Sensing, 2014, 30, 525-536.	0.4	1
96	Effects of national forest inventory plot location error on forest carbon stock estimation using k-nearest neighbor algorithm. ISPRS Journal of Photogrammetry and Remote Sensing, 2013, 81, 82-92.	4.9	27
97	Machine learning approaches for forest classification and change analysis using multi-temporal Landsat TM images over Huntington Wildlife Forest. GIScience and Remote Sensing, 2013, 50, 361-384.	2.4	108
98	Remote Sensing-based House Value Estimation Using an Optimized Regional Regression Model. Photogrammetric Engineering and Remote Sensing, 2013, 79, 809-820.	0.3	12
99	Fusion of feature selection and optimized immune networks for hyperspectral image classification of urban landscapes. Geocarto International, 2012, 27, 373-393.	1.7	11
100	Characterization of Forest Crops with a Range of Nutrient and Water Treatments Using AISA Hyperspectral Imagery. GIScience and Remote Sensing, 2012, 49, 463-491.	2.4	13
101	Indicators for separating undesirable and well-delineated tree crowns in high spatial resolution images. International Journal of Remote Sensing, 2012, 33, 5451-5472.	1.3	12
102	Impervious surface quantification using a synthesis of artificial immune networks and decision/regression trees from multi-sensor data. Remote Sensing of Environment, 2012, 117, 102-113.	4.6	86
103	Forest biomass estimation from airborne LiDAR data using machine learning approaches. Remote Sensing of Environment, 2012, 125, 80-91.	4.6	244
104	Variable selection for hedonic model using machine learning approaches: A case study in Onondaga County, NY. Landscape and Urban Planning, 2012, 107, 293-306.	3.4	68
105	Vegetation Cover Analysis of Hazardous Waste Sites in Utah and Arizona Using Hyperspectral Remote Sensing. Remote Sensing, 2012, 4, 327-353.	1.8	37
106	A Fusion Approach for Tree Crown Delineation from Lidar Data. Photogrammetric Engineering and Remote Sensing, 2012, 78, 679-692.	0.3	24
107	A Review of Remote Sensing of Forest Biomass and Biofuel: Options for Small-Area Applications. GIScience and Remote Sensing, 2011, 48, 141-170.	2.4	88
108	A Volumetric Approach to Population Estimation Using Lidar Remote Sensing. Photogrammetric Engineering and Remote Sensing, 2011, 77, 1145-1156.	0.3	47



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109	Support vector machines in remote sensing: A review. ISPRS Journal of Photogrammetry and Remote Sensing, 2011, 66, 247-259.	4.9	2,410
110	An artificial immune network approach to multi-sensor land use/land cover classification. Remote Sensing of Environment, 2011, 115, 600-614.	4.6	52
111	A Genetic Algorithm Approach to Moving Threshold Optimization for Binary Change Detection. Photogrammetric Engineering and Remote Sensing, 2011, 77, 167-180.	0.3	8
112	Synergistic use of QuickBird multispectral imagery and LIDAR data for object-based forest species classification. Remote Sensing of Environment, 2010, 114, 1141-1154.	4.6	254
113	Monitoring agricultural drought for arid and humid regions using multi-sensor remote sensing data. Remote Sensing of Environment, 2010, 114, 2875-2887.	4.6	490
114	An automatic region-based image segmentation algorithm for remote sensing applications. Environmental Modelling and Software, 2010, 25, 1149-1165.	1.9	87
115	Population estimation based on multi-sensor data fusion. International Journal of Remote Sensing, 2010, 31, 5587-5604.	1.3	56
116	Characteristics of Search Spaces for Identifying Optimum Thresholds in Change Detection Studies. GIScience and Remote Sensing, 2009, 46, 249-272.	2.4	7
117	Hyperspectral remote sensing analysis of short rotation woody crops grown with controlled nutrient and irrigation treatments. Geocarto International, 2009, 24, 293-312.	1.7	41
118	Enhancing Binary Change Detection Performance Using A Moving Threshold Window (MTW) Approach. Photogrammetric Engineering and Remote Sensing, 2009, 75, 951-961.	0.3	7
119	A Remote Sensing and GIS-assisted Spatial Decision Support System for Hazardous Waste Site Monitoring. Photogrammetric Engineering and Remote Sensing, 2009, 75, 169-177.	0.3	18
120	Optimizing the binary discriminant function in change detection applications. Remote Sensing of Environment, 2008, 112, 2761-2776.	4.6	37
121	Delineation of climate regions using in-situ and remotely-sensed data for the Carolinas. Remote Sensing of Environment, 2008, 112, 3099-3111.	4.6	45
122	Hyperspectral Remote Sensing of Vegetation. Geography Compass, 2008, 2, 1943-1961.	1.5	50
123	Object-based change detection using correlation image analysis and image segmentation. International Journal of Remote Sensing, 2008, 29, 399-423.	1.3	321
124	Object-Based Land Cover Classification Using High-Posting-Density LiDAR Data. GIScience and Remote Sensing, 2008, 45, 209-228.	2.4	76
125	Remote Sensing Change Detection in Urban Environments. , 2007, , 7-31.		26
126	An automated binary change detection model using a calibration approach. Remote Sensing of Environment, 2007, 106, 89-105.	4.6	45



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127	Remote Sensing Agricultural Crop Type for Sustainable Development in South Africa. Geocarto International, 2006, 21, 5-18.	1.7	36
128	A change detection model based on neighborhood correlation image analysis and decision tree classification. Remote Sensing of Environment, 2005, 99, 326-340.	4.6	225
129	Development of a remote sensing change detection system based on neighborhood correlation image analysis and intelligent knowledge-based systems. , 0, , .		2
130	Image Classification. , 0, , 269-281.		10