

Hyung-Sup Jung

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8299269/publications.pdf>

Version: 2024-02-01

114
papers

2,818
citations

218381

26
h-index

197535

49
g-index

116
all docs

116
docs citations

116
times ranked

2301
citing authors

#	ARTICLE	IF	CITATIONS
1	Earth Observation from KOMPSAT Optical, Thermal, and Radar Satellite Images. Remote Sensing, 2021, 13, 139.	1.8	1
2	Remote Sensing and Geoscience Information Systems Applied to Groundwater Research. Remote Sensing, 2021, 13, 2086.	1.8	1
3	Performance Comparison of Oil Spill and Ship Classification from X-Band Dual- and Single-Polarized SAR Image Using Support Vector Machine, Random Forest, and Deep Neural Network. Remote Sensing, 2021, 13, 3203.	1.8	18
4	A Trend Analysis of Development Projects in South Korea during 2007â€“2016 Using a Multi-Layer Perceptron Based Artificial Neural Network. Applied Sciences (Switzerland), 2021, 11, 7133.	1.3	1
5	Mapping Forest Vertical Structure in Sogwang-ri Forest from Full-Waveform Lidar Point Clouds Using Deep Neural Network. Remote Sensing, 2021, 13, 3736.	1.8	6
6	Improved Calibration of Wind Estimates from Advanced Scatterometer MetOp-B in Korean Seas Using Deep Neural Network. Remote Sensing, 2021, 13, 4164.	1.8	5
7	Forest Vertical Structure Mapping Using Two-Seasonal Optic Images and LiDAR DSM Acquired from UAV Platform through Random Forest, XGBoost, and Support Vector Machine Approaches. Remote Sensing, 2021, 13, 4282.	1.8	19
8	Landslide susceptibility mapping using Naïve Bayes and Bayesian network models in Umyeonsan, Korea. Geocarto International, 2020, 35, 1665-1679.	1.7	57
9	Precise Three-Dimensional Deformation Retrieval in Large and Complex Deformation Areas via Integration of Offset-Based Unwrapping and Improved Multiple-Aperture SAR Interferometry: Application to the 2016 Kumamoto Earthquake. Engineering, 2020, 6, 927-935.	3.2	8
10	Ship Detection from X-Band SAR Images Using M2Det Deep Learning Model. Applied Sciences (Switzerland), 2020, 10, 7751.	1.3	5
11	Susceptibility Mapping on Urban Landslides Using Deep Learning Approaches in Mt. Umyeon. Applied Sciences (Switzerland), 2020, 10, 8189.	1.3	25
12	Spatial Sharpening of KOMPSAT-3A MIR Images Using Optimal Scaling Factor. Remote Sensing, 2020, 12, 3772.	1.8	3
13	Satellite radar observation of large surface collapses induced by the 2017 North Korea nuclear test. Scientific Reports, 2020, 10, 17833.	1.6	1
14	Sustainable Applications of Remote Sensing and Geospatial Information Systems to Earth Observations. Sustainability, 2020, 12, 2390.	1.6	5
15	Mapping Forest Vertical Structure in Jeju Island from Optical and Radar Satellite Images Using Artificial Neural Network. Remote Sensing, 2020, 12, 797.	1.8	14
16	Oil Spill Mapping from Kompsat-2 High-Resolution Image Using Directional Median Filtering and Artificial Neural Network. Remote Sensing, 2020, 12, 253.	1.8	8
17	Mapping Forest Vertical Structure in Gong-ju, Korea Using Sentinel-2 Satellite Images and Artificial Neural Networks. Applied Sciences (Switzerland), 2020, 10, 1666.	1.3	11
18	Band-Based Best Model Selection for Topographic Normalization of Normalized Difference Vegetation Index Map. IEEE Access, 2020, 8, 4408-4417.	2.6	2

#	ARTICLE	IF	CITATIONS
19	Oil Spill Detection of Kerch Strait in November 2007 from Dual-Polarized TerraSAR-X Image Using Artificial and Convolutional Neural Network Regression Models. Journal of Coastal Research, 2020, 102, .	0.1	8
20	Ground subsidence observation of solid waste landfill park using multi-temporal radar interferometry. International Journal of Urban Sciences, 2019, 23, 406-421.	1.3	16
21	Special Issue on Selected Papers from the "International Symposium on Remote Sensing 2018": Remote Sensing, 2019, 11, 1439.	1.8	2
22	Advanced Sensor Technologies in Geospatial Sciences and Engineering. Journal of Sensors, 2019, 2019, 1-3.	0.6	1
23	Synthetic Aperture Radar Interferometry (InSAR) Ionospheric Correction Based on Faraday Rotation: Two Case Studies. Applied Sciences (Switzerland), 2019, 9, 3871.	1.3	6
24	An Improvement of the Performance of SAR Offset Tracking Approach to Measure Optimal Surface Displacements. IEEE Access, 2019, 7, 131627-131637.	2.6	5
25	Special Issue on Machine Learning Techniques Applied to Geoscience Information System and Remote Sensing. Applied Sciences (Switzerland), 2019, 9, 2446.	1.3	9
26	Spatial Mapping of the Groundwater Potential of the Geum River Basin Using Ensemble Models Based on Remote Sensing Images. Remote Sensing, 2019, 11, 2285.	1.8	48
27	Remarks on correcting ionospheric distortions in L-band radar interferometry. Geocarto International, 2019, 34, 227-242.	1.7	1
28	Oil Spill Detection from PlanetScope Satellite Image: Application to Oil Spill Accident near Ras Al Zour Area, Kuwait in August 2017. Journal of Coastal Research, 2019, 90, 251.	0.1	19
29	Special Issue on "Advances in Remote Sensing and Geoscience Information Systems of the Coastal Environments": Journal of Coastal Research, 2019, 90, .	0.1	3
30	Classification of Halophytes from Airborne Hyperspectral Imagery in Ganghwa Island, Korea Using Multilayer Perceptron Artificial Neural Network. Journal of Coastal Research, 2019, 90, 243.	0.1	0
31	Landslide susceptibility mapping using random forest and boosted tree models in Pyeong-Chang, Korea. Geocarto International, 2018, 33, 1000-1015.	1.7	187
32	GIS-based groundwater potential mapping using artificial neural network and support vector machine models: the case of Boryeong city in Korea. Geocarto International, 2018, 33, 847-861.	1.7	135
33	Feasibility of ALOS2 PALSAR2 Offset-Based Phase Unwrapping of SAR Interferogram in Large and Complex Surface Deformations. IEEE Access, 2018, 6, 45951-45960.	2.6	8
34	Three-Dimensional Surface Deformation Related to the 2017 North Korea Nuclear Test Observed by Sar Offset-Tracking Approach. , 2018, , .		0
35	Automatic Ship Detection Using the Artificial Neural Network and Support Vector Machine from X-Band Sar Satellite Images. Remote Sensing, 2018, 10, 1799.	1.8	33
36	Mapping Oil Spills from Dual-Polarized SAR Images Using an Artificial Neural Network: Application to Oil Spill in the Kerch Strait in November 2007. Sensors, 2018, 18, 2237.	2.1	16

#	ARTICLE	IF	CITATIONS
37	Systems and Sensors in Geoscience Applications. Journal of Sensors, 2018, 2018, 1-3.	0.6	1
38	Advances in three-dimensional deformation mapping from satellite radar observations: application to the 2003 Bam earthquake. Geomatics, Natural Hazards and Risk, 2018, 9, 678-690.	2.0	8
39	Sensor Technologies and Methods for Geoinformatics and Remote Sensing. Journal of Sensors, 2018, 2018, 1-2.	0.6	2
40	Groundwater productivity potential mapping using frequency ratio and evidential belief function and artificial neural network models: focus on topographic factors. Journal of Hydroinformatics, 2018, 20, 1436-1451.	1.1	26
41	Intercomparison and Validation of SAR-Based Ice Velocity Measurement Techniques within the Greenland Ice Sheet CCI Project. Remote Sensing, 2018, 10, 929.	1.8	18
42	Spatial Assessment of Urban Flood Susceptibility Using Data Mining and Geographic Information System (GIS) Tools. Sustainability, 2018, 10, 648.	1.6	49
43	Measurement of small co-seismic deformation field from multi-temporal SAR interferometry: application to the 19 September 2004 Huntoon Valley earthquake. Geomatics, Natural Hazards and Risk, 2017, 8, 1241-1257.	2.0	13
44	Spatial prediction of flood susceptibility using random-forest and boosted-tree models in Seoul metropolitan city, Korea. Geomatics, Natural Hazards and Risk, 2017, 8, 1185-1203.	2.0	235
45	Ionospheric Correction of L-Band SAR Offset Measurements for the Precise Observation of Glacier Velocity Variations on Novaya Zemlya. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 3591-3603.	2.3	26
46	Measurement of precise three-dimensional volcanic deformations via TerraSAR-X synthetic aperture radar interferometry. Remote Sensing of Environment, 2017, 192, 228-237.	4.6	22
47	Retrieving Precise Three-Dimensional Deformation on the 2014 M6.0 South Napa Earthquake by Joint Inversion of Multi-Sensor SAR. Scientific Reports, 2017, 7, 5485.	1.6	20
48	A quantitative method to evaluate the performance of topographic correction models used to improve land cover identification. Advances in Space Research, 2017, 60, 1488-1503.	1.2	11
49	Mitigation of ionospheric phase delay error for SAR interferometry: an application of FR-based and azimuth offset methods. Remote Sensing Letters, 2017, 8, 58-67.	0.6	5
50	A Support Vector Machine for Landslide Susceptibility Mapping in Gangwon Province, Korea. Sustainability, 2017, 9, 48.	1.6	114
51	Data Mining Approaches for Landslide Susceptibility Mapping in Umyeonsan, Seoul, South Korea. Applied Sciences (Switzerland), 2017, 7, 683.	1.3	39
52	Application of Artificial Neural Networks to Ship Detection from X-Band Kompsat-5 Imagery. Applied Sciences (Switzerland), 2017, 7, 961.	1.3	23
53	Classification of Forest Vertical Structure in South Korea from Aerial Orthophoto and Lidar Data Using an Artificial Neural Network. Applied Sciences (Switzerland), 2017, 7, 1046.	1.3	21
54	Precise three-dimensional mapping of the 2016 Kumamoto earthquake through the integration of SAR interferometry and offset tracking. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
55	Mapping three-dimensional surface deformation caused by the 2010 Haiti earthquake using advanced satellite radar interferometry. PLoS ONE, 2017, 12, e0188286.	1.1	12
56	Oil Spill Detection from RADARSAT-2 SAR Image Using Non-Local Means Filter. Korean Journal of Remote Sensing, 2017, 33, 61-67.	0.4	6
57	Accuracy Evaluation of DEM generated from Satellite Images Using Automated Geo-positioning Approach. Korean Journal of Remote Sensing, 2017, 33, 69-77.	0.4	3
58	An efficient ship detection method for KOMPSAT-5 synthetic aperture radar imagery based on adaptive filtering approach. Korean Journal of Remote Sensing, 2017, 33, 89-95.	0.4	8
59	Spatiotemporal analysis of snow cover variations at Mt. Kilimanjaro using multi-temporal Landsat images during 27 years. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 143-144, 37-46.	0.6	10
60	Investigation of ionospheric effects on SAR Interferometry (InSAR): A case study of Hong Kong. Advances in Space Research, 2016, 58, 564-576.	1.2	7
61	Automated Bias-Compensation Approach for Pushbroom Sensor Modeling Using Digital Elevation Model. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3400-3409.	2.7	12
62	Multi-temporal Analysis of Deforestation in Pyeongyang and Hyesan, North Korea. Korean Journal of Remote Sensing, 2016, 32, 1-11.	0.4	1
63	Comparison Analysis of Quality Assessment Protocols for Image Fusion of KOMPSAT-2/3/3A. Korean Journal of Remote Sensing, 2016, 32, 453-469.	0.4	2
64	Comparative Analysis among Radar Image Filters for Flood Mapping. Journal of the Korean Society of Surveying Geodesy Photogrammetry and Cartography, 2016, 34, 43-52.	0.2	7
65	Post-Eruptive Inflation of Okmok Volcano, Alaska, from InSAR, 2008-2014. Remote Sensing, 2015, 7, 16778-16794.	1.8	15
66	Detecting the Source Location of Recent Summit Inflation via Three-Dimensional InSAR Observation of K��lauea Volcano. Remote Sensing, 2015, 7, 14386-14402.	1.8	26
67	An empirical model for measurement accuracy of along-track deformation by advanced multiple-aperture SAR interferometry from COSMO-SkyMed dataset. , 2015, , .		0
68	An Efficient Mosaic Algorithm Considering Seasonal Variation: Application to KOMPSAT-2 Satellite Images. Sensors, 2015, 15, 5649-5665.	2.1	9
69	An Improvement of Ionospheric Phase Correction by Multiple-Aperture Interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4952-4960.	2.7	31
70	Measurement of slow-moving along-track displacement from an efficient multiple-aperture SAR interferometry (MAI) stacking. Journal of Geodesy, 2015, 89, 411-425.	1.6	37
71	Application of ERS and Envisat cross-interferometry to generation and accuracy assessment of digital elevation model over northern Alaska. Journal of Applied Remote Sensing, 2015, 9, 096065.	0.6	5
72	Measurement of three-dimensional surface deformation by Cosmo-SkyMed X-band radar interferometry: Application to the March 2011 Kamoamoia fissure eruption, K��lauea Volcano, Hawai'i. Remote Sensing of Environment, 2015, 169, 176-191.	4.6	20

#	ARTICLE	IF	CITATIONS
73	An Improvement of Multiple-Aperture SAR Interferometry Performance in the Presence of Complex and Large Line-of-Sight Deformation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 1743-1752.	2.3	23
74	Simulation of the SuperSAR Multi-Azimuth Synthetic Aperture Radar Imaging System for Precise Measurement of Three-Dimensional Earth Surface Displacement. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6196-6206.	2.7	30
75	Pansharpening Method for KOMPSAT-2/3 High-Spatial Resolution Satellite Image. Korean Journal of Remote Sensing, 2015, 31, 161-170.	0.4	3
76	Enhancement of Ionospheric Correction Method Based on Multiple Aperture Interferometry. Korean Journal of Remote Sensing, 2015, 31, 101-110.	0.4	3
77	Multi-Sensor Fusion of Landsat 8 Thermal Infrared (TIR) and Panchromatic (PAN) Images. Sensors, 2014, 14, 24425-24440.	2.1	18
78	Theoretical Accuracy of Along-Track Displacement Measurements from Multiple-Aperture Interferometry (MAI). Sensors, 2014, 14, 17703-17724.	2.1	32
79	Time-series monitoring result of land surface temperature variation at Mt. Baekdu using Landsat images. , 2014, , .		0
80	Snow cover correlation between Mt. Villarrica and Mt. Llaima in Chile. Proceedings of SPIE, 2014, , .	0.8	0
81	Measurement of three-dimensional surface deformation of the March 2011 Kamoamoia fissure eruption, Kilauea Volcano, Hawai'i. , 2014, , .		1
82	Joint Correction of Ionosphere Noise and Orbital Error in L-Band SAR Interferometry of Interseismic Deformation in Southern California. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3421-3427.	2.7	49
83	A Novel Multitemporal InSAR Model for Joint Estimation of Deformation Rates and Orbital Errors. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3529-3540.	2.7	77
84	Application of Landsat images to Snow Cover Changes by Volcanic Activities at Mt. Villarrica and Mt. Llaima, Chile. Korean Journal of Remote Sensing, 2014, 30, 341-350.	0.4	4
85	A Method for Quantitative Quality Assessment of Mosaic Imagery. Korean Journal of Remote Sensing, 2014, 30, 1-12.	0.4	2
86	Comparative Analysis of Image Fusion Methods According to Spectral Responses of High-Resolution Optical Sensors. Korean Journal of Remote Sensing, 2014, 30, 227-239.	0.4	2
87	Dynamic deformation of Seguam Island, Alaska, 1992â€“2008, from multi-interferogram InSAR processing. Journal of Volcanology and Geothermal Research, 2013, 260, 43-51.	0.8	28
88	Ionospheric Correction of SAR Interferograms by Multiple-Aperture Interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3191-3199.	2.7	76
89	Feasibility of Along-Track Displacement Measurement From Sentinel-1 Interferometric Wide-Swath Mode. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 573-578.	2.7	50
90	Melt Pond Mapping With High-Resolution SAR: The First View. Proceedings of the IEEE, 2013, 101, 748-758.	16.4	19

#	ARTICLE	IF	CITATIONS
91	Retrieval of Relative Surface Temperature from Single-channel Middle-infrared (MIR) Images. Korean Journal of Remote Sensing, 2013, 29, 95-104.	0.4	2
92	An Efficient Method to Estimate Land Surface Temperature Difference (LSTD) Using Landsat Satellite Images. Korean Journal of Remote Sensing, 2013, 29, 197-207.	0.4	5
93	Simulation of time-series surface deformation to validate a multi-interferogram InSAR processing technique. International Journal of Remote Sensing, 2012, 33, 7075-7087.	1.3	32
94	Mapping ground surface deformation using temporarily coherent point SAR interferometry: Application to Los Angeles Basin. Remote Sensing of Environment, 2012, 117, 429-439.	4.6	164
95	Comparison of Image Fusion Methods to Merge KOMPSAT-2 Panchromatic and Multispectral Images. Korean Journal of Remote Sensing, 2012, 28, 39-54.	0.4	7
96	Automatic Geometric Calibration of KOMPSAT-2 Stereo Pair Data. Korean Journal of Remote Sensing, 2012, 28, 191-202.	0.4	6
97	Analysis on the Snow Cover Variations at Mt. Kilimanjaro Using Landsat Satellite Images. Korean Journal of Remote Sensing, 2012, 28, 409-420.	0.4	13
98	Mapping Three-Dimensional Surface Deformation by Combining Multiple-Aperture Interferometry and Conventional Interferometry: Application to the June 2007 Eruption of Kilauea Volcano, Hawaii. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 34-38.	1.4	143
99	Integration of a subsidence model and SAR interferometry for a coal mine subsidence hazard map in Taebaek, Korea. International Journal of Remote Sensing, 2011, 32, 8161-8181.	1.3	24
100	An Efficient Interferometric Radar Altimeter (IRA) Signal Processing to Extract Precise Three-dimensional Ground Coordinates. Korean Journal of Remote Sensing, 2011, 27, 507-520.	0.4	9
101	Topographic Phase Correction of MAI (Multiple Aperture SAR Interferometry) Interferogram. Korean Journal of Remote Sensing, 2011, 27, 171-180.	0.4	0
102	Monitoring Natural Hazards in Protected Lands Using Interferometric Synthetic Aperture Radar. Taylor & Francis Series in Remote Sensing Applications, 2011, , 439-472.	0.0	1
103	A time-series SAR observation of surface deformation at the southern end of the San Andreas Fault Zone. Geosciences Journal, 2010, 14, 277-287.	0.6	20
104	High P&T granulite relicts from the Imjingang belt, South Korea: Tectonic significance. Gondwana Research, 2010, 17, 75-86.	3.0	63
105	Detection and Restoration of Defective Lines in the SPOT 4 SWIR Band. IEEE Transactions on Image Processing, 2010, 19, 2143-2156.	6.0	25
106	Radar image and data fusion for natural hazards characterisation. International Journal of Image and Data Fusion, 2010, 1, 217-242.	0.8	37
107	An Improvement of the Performance of Multiple-Aperture SAR Interferometry (MAI). IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2859-2869.	2.7	131
108	Analysis of ground subsidence in coal mining area using SAR interferometry. Geosciences Journal, 2008, 12, 277-284.	0.6	57

#	ARTICLE	IF	CITATIONS
109	Formulation of distortion error for the line-of-sight (LOS) vector adjustment model and its role in restitution of SPOT imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2008, 63, 610-620.	4.9	4
110	Line-of-Sight Vector Adjustment Model for Geopositioning of SPOT-5 Stereo Images. Photogrammetric Engineering and Remote Sensing, 2007, 73, 1267-1276.	0.3	9
111	Satellite observation of coal mining subsidence by persistent scatterer analysis. Engineering Geology, 2007, 92, 1-13.	2.9	89
112	Extraction of ground control points (GCPs) from synthetic aperture radar images and SRTM DEM. International Journal of Remote Sensing, 2006, 27, 3813-3829.	1.3	9
113	MEASUREMENT OF SEAWARD GROUND DISPLACEMENTS ON COASTAL LANDFILL AREA USING RADAR INTERFEROMETRY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3, 57-60.	0.2	3
114	IMPROVEMENT OF FOREST FIRE DETECTION ALGORITHM USING BRIGHTNESS TEMPERATURE LAPSE RATE CORRECTION IN HIMAWARI-8 IR CHANNELS: APPLICATION TO THE 6 MAY 2017 SAMCHEOK CITY, KOREA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3, 1353-1354.	0.2	0