Hyung-Sup Jung

List of Publications by Year
in descending order

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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	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
2	Landslide susceptibility mapping using random forest and boosted tree models in Pyeong-Chang, Korea. Geocarto International, 2018, 33, 1000-1015.	1.7	187
3	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
4	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
5	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
6	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
7	A Support Vector Machine for Landslide Susceptibility Mapping in Gangwon Province, Korea. Sustainability, 2017, 9, 48.	1.6	114
8	Satellite observation of coal mining subsidence by persistent scatterer analysis. Engineering Geology, 2007, 92, 1-13.	2.9	89
9	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
10	Ionospheric Correction of SAR Interferograms by Multiple-Aperture Interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3191-3199.	2.7	76
11	High Pâ€“T granulite relicts from the Imjingang belt, South Korea: Tectonic significance. Gondwana Research, 2010, 17, 75-86.	3.0	63
12	Analysis of ground subsidence in coal mining area using SAR interferometry. Geosciences Journal, 2008, 12, 277-284.	0.6	57
13	Landslide susceptibility mapping using NaÃ¯ve Bayes and Bayesian network models in Umyeonsan, Korea. Geocarto International, 2020, 35, 1665-1679.	1.7	57
14	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
15	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
16	Spatial Assessment of Urban Flood Susceptibility Using Data Mining and Geographic Information System (GIS) Tools. Sustainability, 2018, 10, 648.	1.6	49
17	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
18	Data Mining Approaches for Landslide Susceptibility Mapping in Umyeonsan, Seoul, South Korea. Applied Sciences (Switzerland), 2017, 7, 683.	1.3	39

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19	Radar image and data fusion for natural hazards characterisation. International Journal of Image and Data Fusion, 2010, 1, 217-242.	0.8	37
20	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
21	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
22	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
23	Theoretical Accuracy of Along-Track Displacement Measurements from Multiple-Aperture Interferometry (MAI). Sensors, 2014, 14, 17703-17724.	2.1	32
24	An Improvement of Ionospheric Phase Correction by Multiple-Aperture Interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4952-4960.	2.7	31
25	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
26	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
27	Detecting the Source Location of Recent Summit Inflation via Three-Dimensional InSAR Observation of KÄ«lauea Volcano. Remote Sensing, 2015, 7, 14386-14402.	1.8	26
28	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
29	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
30	Detection and Restoration of Defective Lines in the SPOT 4 SWIR Band. IEEE Transactions on Image Processing, 2010, 19, 2143-2156.	6.0	25
31	Susceptibility Mapping on Urban Landslides Using Deep Learning Approaches in Mt. Umyeon. Applied Sciences (Switzerland), 2020, 10, 8189.	1.3	25
32	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
33	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
34	Application of Artificial Neural Networks to Ship Detection from X-Band Kompsat-5 Imagery. Applied Sciences (Switzerland), 2017, 7, 961.	1.3	23
35	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
36	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

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37	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
38	Measurement of three-dimensional surface deformation by Cosmo-SkyMed X-band radar interferometry: Application to the March 2011 Kamoamoa fissure eruption, KÄ«lauea Volcano, Hawai'i. Remote Sensing of Environment, 2015, 169, 176-191.	4.6	20
39	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
40	Melt Pond Mapping With High-Resolution SAR: The First View. Proceedings of the IEEE, 2013, 101, 748-758.	16.4	19
41	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
42	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
43	Multi-Sensor Fusion of Landsat 8 Thermal Infrared (TIR) and Panchromatic (PAN) Images. Sensors, 2014, 14, 24425-24440.	2.1	18
44	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
45	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
46	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
47	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
48	Post-Eruptive Inflation of Okmok Volcano, Alaska, from InSAR, 2008â€“2014. Remote Sensing, 2015, 7, 16778-16794.	1.8	15
49	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
50	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
51	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
52	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
53	Mapping three-dimensional surface deformation caused by the 2010 Haiti earthquake using advanced satellite radar interferometry. PLoS ONE, 2017, 12, e0188286.	1.1	12
54	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

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55	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
56	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
57	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
58	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
59	An Efficient Mosaic Algorithm Considering Seasonal Variation: Application to KOMPSAT-2 Satellite Images. Sensors, 2015, 15, 5649-5665.	2.1	9
60	Special Issue on Machine Learning Techniques Applied to Geoscience Information System and Remote Sensing. Applied Sciences (Switzerland), 2019, 9, 2446.	1.3	9
61	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
62	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
63	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
64	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
65	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
66	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
67	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
68	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
69	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
70	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
71	Synthetic Aperture Radar Interferometry (InSAR) Ionospheric Correction Based on Faraday Rotation: Two Case Studies. Applied Sciences (Switzerland), 2019, 9, 3871.	1.3	6
72	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

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73	Automatic Geometric Calibration of KOMPSAT-2 Stereo Pair Data. Korean Journal of Remote Sensing, 2012, 28, 191-202.	0.4	6
74	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
75	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
76	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
77	An Improvement of the Performance of SAR Offset Tracking Approach to Measure Optimal Surface Displacements. IEEE Access, 2019, 7, 131627-131637.	2.6	5
78	Ship Detection from X-Band SAR Images Using M2Det Deep Learning Model. Applied Sciences (Switzerland), 2020, 10, 7751.	1.3	5
79	Sustainable Applications of Remote Sensing and Geospatial Information Systems to Earth Observations. Sustainability, 2020, 12, 2390.	1.6	5
80	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
81	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
82	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
83	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
84	Spatial Sharpening of KOMPSAT-3A MIR Images Using Optimal Scaling Factor. Remote Sensing, 2020, 12, 3772.	1.8	3
85	Special Issue on â€œAdvances in Remote Sensing and Geoscience Information Systems of the Coastal Environmentsâ€• Journal of Coastal Research, 2019, 90, .	0.1	3
86	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
87	Pansharpening Method for KOMPSAT-2/3 High-Spatial Resolution Satellite Image. Korean Journal of Remote Sensing, 2015, 31, 161-170.	0.4	3
88	Enhancement of Ionospheric Correction Method Based on Multiple Aperture Interferometry. Korean Journal of Remote Sensing, 2015, 31, 101-110.	0.4	3
89	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
90	Precise three-dimensional mapping of the 2016 Kumamoto earthquake through the integration of SAR interferometry and offset tracking. , 2017, , .		2

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91	Sensor Technologies and Methods for Geoinformatics and Remote Sensing. Journal of Sensors, 2018, 2018, 1-2.	0.6	2
92	Special Issue on Selected Papers from the â€œInternational Symposium on Remote Sensing 2018â€• Remote Sensing, 2019, 11, 1439.	1.8	2
93	Band-Based Best Model Selection for Topographic Normalization of Normalized Difference Vegetation Index Map. IEEE Access, 2020, 8, 4408-4417.	2.6	2
94	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
95	Retrieval of Relative Surface Temperature from Single-channel Middle-infrared (MIR) Images. Korean Journal of Remote Sensing, 2013, 29, 95-104.	0.4	2
96	A Method for Quantitative Quality Assessment of Mosaic Imagery. Korean Journal of Remote Sensing, 2014, 30, 1-12.	0.4	2
97	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
98	Measurement of three-dimensional surface deformation of the March 2011 Kamoamoa fissure eruption, Kilauea Volcano, Hawai'i. , 2014, , .		1
99	Systems and Sensors in Geoscience Applications. Journal of Sensors, 2018, 2018, 1-3.	0.6	1
100	Advanced Sensor Technologies in Geospatial Sciences and Engineering. Journal of Sensors, 2019, 2019, 1-3.	0.6	1
101	Remarks on correcting ionospheric distortions in L-band radar interferometry. Geocarto International, 2019, 34, 227-242.	1.7	1
102	Satellite radar observation of large surface collapses induced by the 2017 North Korea nuclear test. Scientific Reports, 2020, 10, 17833.	1.6	1
103	Earth Observation from KOMPSAT Optical, Thermal, and Radar Satellite Images. Remote Sensing, 2021, 13, 139.	1.8	1
104	Remote Sensing and Geoscience Information Systems Applied to Groundwater Research. Remote Sensing, 2021, 13, 2086.	1.8	1
105	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
106	Multi-temporal Analysis of Deforestation in Pyeongyang and Hyesan, North Korea. Korean Journal of Remote Sensing, 2016, 32, 1-11.	0.4	1
107	Monitoring Natural Hazards in Protected Lands Using Interferometric Synthetic Aperture Radar. Taylor & Francis Series in Remote Sensing Applications, 2011, , 439-472.	0.0	1
108	Time-series monitoring result of land surface temperature variation at Mt. Baekdu using Landsat images. , 2014, , .		0

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109	Snow cover correlation between Mt. Villarrica and Mt. Lliama in Chile. Proceedings of SPIE, 2014, , .	0.8	0
110	An empirical model for measurement accuracy of along-track deformation by advanced multiple-aperture SAR interferometry from COSMO-SkyMed dataset. , 2015, , .		0
111	Three-Dimensional Surface Deformation Related to the 2017 North Korea Nuclear Test Observed by Sar Offset-Tracking Approach. , 2018, , .		0
112	Topographic Phase Correction of MAI (Multiple Aperture SAR Interferometry) Interferogram. Korean Journal of Remote Sensing, 2011, 27, 171-180.	0.4	0
113	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
114	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