

# Xin Huang

## List of Publications by Year in descending order

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79  
papers

7,111  
citations

61984

43  
h-index

71685

76  
g-index

79  
all docs

79  
docs citations

79  
times ranked

5621  
citing authors

#	ARTICLE	IF	CITATIONS
1	A framework for assessing the systemic risk of major financial institutions. <i>Journal of Banking and Finance</i> , 2009, 33, 2036-2049.	2.9	509
2	An SVM Ensemble Approach Combining Spectral, Structural, and Semantic Features for the Classification of High-Resolution Remotely Sensed Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 257-272.	6.3	389
3	On Combining Multiple Features for Hyperspectral Remote Sensing Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 879-893.	6.3	367
4	Morphological Building/Shadow Index for Building Extraction From High-Resolution Imagery Over Urban Areas. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2012, 5, 161-172.	4.9	315
5	Multiple Feature Learning for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 1592-1606.	6.3	282
6	Ensemble manifold regularized sparse low-rank approximation for multiview feature embedding. <i>Pattern Recognition</i> , 2015, 48, 3102-3112.	8.1	260
7	Tensor Discriminative Locality Alignment for Hyperspectral Image Spectral Spatial Feature Extraction. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 242-256.	6.3	251
8	Systemic Risk Contributions. <i>Journal of Financial Services Research</i> , 2012, 42, 55-83.	1.5	231
9	An Adaptive Mean-Shift Analysis Approach for Object Extraction and Classification From Urban Hyperspectral Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 4173-4185.	6.3	210
10	Processing of Multiresolution Thermal Hyperspectral and Digital Color Data: Outcome of the 2014 IEEE GRSS Data Fusion Contest. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 2984-2996.	4.9	193
11	A pixel shape index coupled with spectral information for classification of high spatial resolution remotely sensed imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 2950-2961.	6.3	186
12	Sparse Transfer Manifold Embedding for Hyperspectral Target Detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 1030-1043.	6.3	173
13	Hyperspectral Remote Sensing Image Subpixel Target Detection Based on Supervised Metric Learning. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 4955-4965.	6.3	171
14	Classification and Extraction of Spatial Features in Urban Areas Using High-Resolution Multispectral Imagery. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2007, 4, 260-264.	3.1	154
15	Compression of hyperspectral remote sensing images by tensor approach. <i>Neurocomputing</i> , 2015, 147, 358-363.	5.9	154
16	The systemic risk of European banks during the financial and sovereign debt crises. <i>Journal of Banking and Finance</i> , 2016, 63, 107-125.	2.9	147
17	Unsupervised Feature Learning Via Spectral Clustering of Multidimensional Patches for Remotely Sensed Scene Classification. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 2015-2030.	4.9	145
18	A multi-index learning approach for classification of high-resolution remotely sensed images over urban areas. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2014, 90, 36-48.	11.1	137

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19	Building Change Detection From Multitemporal High-Resolution Remotely Sensed Images Based on a Morphological Building Index. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 105-115.	4.9	136
20	Road centreline extraction from high-resolution imagery based on multiscale structural features and support vector machines. <i>International Journal of Remote Sensing</i> , 2009, 30, 1977-1987.	2.9	132
21	Assessing the systemic risk of a heterogeneous portfolio of banks during the recent financial crisis. <i>Journal of Financial Stability</i> , 2012, 8, 193-205.	5.2	132
22	Support Tensor Machines for Classification of Hyperspectral Remote Sensing Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 3248-3264.	6.3	131
23	The Flexible Global Ocean-Atmosphere-Land System Model Grid-Point Version 3 (FGOALS-g3): Description and Evaluation. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002012.	3.8	129
24	Evaluation of Morphological Texture Features for Mangrove Forest Mapping and Species Discrimination Using Multispectral IKONOS Imagery. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2009, 6, 393-397.	3.1	102
25	A comparative study of spatial approaches for urban mapping using hyperspectral ROSIS images over Pavia City, northern Italy. <i>International Journal of Remote Sensing</i> , 2009, 30, 3205-3221.	2.9	101
26	Combining Pixel- and Object-Based Machine Learning for Identification of Water-Body Types From Urban High-Resolution Remote-Sensing Imagery. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 2097-2110.	4.9	100
27	Hyperspectral image noise reduction based on rank-1 tensor decomposition. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2013, 83, 50-63.	11.1	96
28	A Multichannel Gray Level Co-Occurrence Matrix for Multi/Hyperspectral Image Texture Representation. <i>Remote Sensing</i> , 2014, 6, 8424-8445.	4.0	88
29	Wavelength selection and spectral discrimination for paddy rice, with laboratory measurements of hyperspectral leaf reflectance. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2011, 66, 672-682.	11.1	87
30	Spatiotemporal Detection and Analysis of Urban Villages in Mega City Regions of China Using High-Resolution Remotely Sensed Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 3639-3657.	6.3	87
31	New Postprocessing Methods for Remote Sensing Image Classification: A Systematic Study. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 7140-7159.	6.3	85
32	A Novel Automatic Change Detection Method for Urban High-Resolution Remotely Sensed Imagery Based on Multiindex Scene Representation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 609-625.	6.3	77
33	Information fusion of aerial images and LIDAR data in urban areas: vector-stacking, re-classification and post-processing approaches. <i>International Journal of Remote Sensing</i> , 2011, 32, 69-84.	2.9	73
34	A Multifeature Tensor for Remote-Sensing Target Recognition. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2011, 8, 374-378.	3.1	68
35	The Recent Decline and Recovery of Indian Summer Monsoon Rainfall: Relative Roles of External Forcing and Internal Variability. <i>Journal of Climate</i> , 2020, 33, 5035-5060.	3.2	65
36	Fault-Tolerant Building Change Detection From Urban High-Resolution Remote Sensing Imagery. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2013, 10, 1060-1064.	3.1	63

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37	South Asian summer monsoon projections constrained by the interdecadal Pacific oscillation. <i>Science Advances</i> , 2020, 6, eaay6546.	10.3	58
38	Multiple Morphological Component Analysis Based Decomposition for Remote Sensing Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 3083-3102.	6.3	56
39	Multiple Morphological Profiles From Multicomponent-Base Images for Hyperspectral Image Classification. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 4653-4669.	4.9	53
40	Object-Based 3-D Building Change Detection on Multitemporal Stereo Images. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 2125-2137.	4.9	50
41	Classification of Ultra-High Resolution Orthophotos Combined with DSM Using a Dual Morphological Top Hat Profile. <i>Remote Sensing</i> , 2015, 7, 16422-16440.	4.0	49
42	An Adaptive Multiscale Information Fusion Approach for Feature Extraction and Classification of IKONOS Multispectral Imagery Over Urban Areas. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2007, 4, 654-658.	3.1	48
43	Automatic Labelling and Selection of Training Samples for High-Resolution Remote Sensing Image Classification over Urban Areas. <i>Remote Sensing</i> , 2015, 7, 16024-16044.	4.0	45
44	Quality Assessment of Panchromatic and Multispectral Image Fusion for the ZY-3 Satellite: From an Information Extraction Perspective. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 753-757.	3.1	39
45	Generalized Differential Morphological Profiles for Remote Sensing Image Classification. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 1736-1751.	4.9	39
46	Three-Dimensional Wavelet Texture Feature Extraction and Classification for Multi/Hyperspectral Imagery. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 2183-2187.	3.1	38
47	Macroeconomic news announcements, systemic risk, financial market volatility, and jumps. <i>Journal of Futures Markets</i> , 2018, 38, 513-534.	1.8	37
48	Object-oriented subspace analysis for airborne hyperspectral remote sensing imagery. <i>Neurocomputing</i> , 2010, 73, 927-936.	5.9	36
49	Dynamic texture recognition by aggregating spatial and temporal features via ensemble SVMs. <i>Neurocomputing</i> , 2016, 173, 1310-1321.	5.9	35
50	Joint Collaborative Representation With Multitask Learning for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 5923-5936.	6.3	34
51	Comparison of Vector Stacking, Multi-SVMs Fuzzy Output, and Multi-SVMs Voting Methods for Multiscale VHR Urban Mapping. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2010, 7, 261-265.	3.1	33
52	Object-oriented change detection based on the Kolmogorov-Smirnov test using high-resolution multispectral imagery. <i>International Journal of Remote Sensing</i> , 2011, 32, 5719-5740.	2.9	33
53	A modified stochastic neighbor embedding for multi-feature dimension reduction of remote sensing images. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2013, 83, 30-39.	11.1	33
54	Improving Backscatter Intensity Calibration for Multispectral LiDAR. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 1421-1425.	3.1	33

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55	Feature Extraction of Hyperspectral Images With Semisupervised Graph Learning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4389-4399.	4.9	31
56	A Novel MRF-Based Multifeature Fusion for Classification of Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 515-519.	3.1	30
57	A Morphological Building Detection Framework for High-Resolution Optical Imagery Over Urban Areas. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1388-1392.	3.1	25
58	Classification of hyperspectral urban data using adaptive simultaneous orthogonal matching pursuit. Journal of Applied Remote Sensing, 2014, 8, 085099.	1.3	24
59	Assessing the Systemic Risk of a Heterogeneous Portfolio of Banks during the Recent Financial Crisis. SSRN Electronic Journal, 0, , .	0.4	22
60	A multilevel decision fusion approach for urban mapping using very high-resolution multi/hyperspectral imagery. International Journal of Remote Sensing, 2012, 33, 3354-3372.	2.9	22
61	Systemic Risk Contributions. SSRN Electronic Journal, 0, , .	0.4	19
62	A multiscale urban complexity index based on 3D wavelet transform for spectral spatial feature extraction and classification: an evaluation on the 8-channel WorldView-2 imagery. International Journal of Remote Sensing, 2012, 33, 2641-2656.	2.9	19
63	A Novel Clustering-Based Feature Representation for the Classification of Hyperspectral Imagery. Remote Sensing, 2014, 6, 5732-5753.	4.0	18
64	Thermal Conductivity Reduction in a Silicon Thin Film with Nanocones. ACS Applied Materials & Interfaces, 2019, 11, 34394-34398.	8.0	17
65	A novel building change index for automatic building change detection from high-resolution remote sensing imagery. Remote Sensing Letters, 2014, 5, 713-722.	1.4	15
66	Northern Hemisphere land monsoon precipitation changes in the twentieth century revealed by multiple reanalysis datasets. Climate Dynamics, 2019, 53, 7131-7149.	3.8	12
67	Assessing and Improving the Accuracy of GlobeLand30 Data for Urban Area Delineation by Combining Multisource Remote Sensing Data. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1860-1864.	3.1	10
68	Coherent and Incoherent Impacts of Nanopillars on the Thermal Conductivity in Silicon Nanomembranes. ACS Applied Materials & Interfaces, 2020, 12, 25478-25483.	8.0	10
69	An Energy-Driven Total Variation Model for Segmentation and Classification of High Spatial Resolution Remote-Sensing Imagery. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 125-129.	3.1	9
70	Fully Constrained Least Squares for Antarctic Sea Ice Concentration Estimation Utilizing Passive Microwave Data. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2291-2295.	3.1	8
71	A Fully Automatic Method to Extract Rare Earth Mining Areas from Landsat Images. Photogrammetric Engineering and Remote Sensing, 2016, 82, 729-737.	0.6	8
72	A structural similarity-based label-smoothing algorithm for the post-processing of land-cover classification. Remote Sensing Letters, 2016, 7, 437-445.	1.4	8

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73	Simulation of Low-Resolution Panchromatic Images by Multivariate Linear Regression for Pan-Sharpener IKONOS Imageries. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 515-519.	3.1	7
74	The Systemic Risk of European Banks During the Financial and Sovereign Debt Crises. SSRN Electronic Journal, 2012, , .	0.4	7
75	Classification of high-spatial resolution imagery based on distance-weighted Markov random field with an improved iterated conditional mode method. International Journal of Remote Sensing, 2011, 32, 9843-9868.	2.9	4
76	Generalization of spectral fidelity with flexible measures for the sparse representation classification of hyperspectral images. International Journal of Applied Earth Observation and Geoinformation, 2016, 52, 275-283.	2.8	4
77	The risk of betting on risk: Conditional variance and correlation of bank credit default swaps. Journal of Futures Markets, 2020, 40, 710-721.	1.8	4
78	Persistence of Bank Credit Default Swap Spreads. Risks, 2019, 7, 90.	2.4	3
79	Foreword to the Special Issue on Information Extraction From High-Spatial-Resolution Optical Remotely Sensed Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 1872-1875.	4.9	0