Licheng Jiao

List of Publications by Citations

480 papers	**11,749** citations	**53** h-index	**85** g-index
518 ext. papers	**14,529** ext. citations	**5.9** avg, IF	**7.25** L-index

#	Paper	IF	Citations
480	MOEA/D with adaptive weight adjustment. *Evolutionary Computation*, **2014**, 22, 231-64	4.3	455
479	Multiobjective immune algorithm with nondominated neighbor-based selection. *Evolutionary Computation*, **2008**, 16, 225-55	4.3	349
478	Change Detection in Synthetic Aperture Radar Images Based on Deep Neural Networks. *IEEE Transactions on Neural Networks and Learning Systems*, **2016**, 27, 125-38	10.3	339
477	A Novel Coarse-to-Fine Scheme for Automatic Image Registration Based on SIFT and Mutual Information. *IEEE Transactions on Geoscience and Remote Sensing*, **2014**, 52, 4328-4338	8.1	191
476	A Novel Point-Matching Algorithm Based on Fast Sample Consensus for Image Registration. *IEEE Geoscience and Remote Sensing Letters*, **2015**, 12, 43-47	4.1	170
475	Community detection in networks by using multiobjective evolutionary algorithm with decomposition. *Physica A: Statistical Mechanics and Its Applications*, **2012**, 391, 4050-4060	3.3	169
474	Spectral Clustering Ensemble Applied to SAR Image Segmentation. *IEEE Transactions on Geoscience and Remote Sensing*, **2008**, 46, 2126-2136	8.1	159
473	Memetic algorithm for community detection in networks. *Physical Review E*, **2011**, 84, 056101	2.4	150
472	Remote Sensing Image Registration With Modified SIFT and Enhanced Feature Matching. *IEEE Geoscience and Remote Sensing Letters*, **2017**, 14, 3-7	4.1	142
471	A deep learning framework for remote sensing image registration. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2018**, 145, 148-164	11.8	136
470	Image fusion based on a new contourlet packet. *Information Fusion*, **2010**, 11, 78-84	16.7	134
469	Adaptive tracking for periodically time-varying and nonlinearly parameterized systems using multilayer neural networks. *IEEE Transactions on Neural Networks*, **2010**, 21, 345-51		132
468	Community detection based on modularity and an improved genetic algorithm. *Physica A: Statistical Mechanics and Its Applications*, **2013**, 392, 1215-1231	3.3	131
467	Fast sparse approximation for least squares support vector machine. *IEEE Transactions on Neural Networks*, **2007**, 18, 685-97		131
466	Deep Fully Convolutional Network-Based Spatial Distribution Prediction for Hyperspectral Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 5585-5599	8.1	126
465	. *IEEE Transactions on Geoscience and Remote Sensing*, **2016**, 54, 3292-3308	8.1	115
464	SAR Image segmentation based on convolutional-wavelet neural network and markov random field. *Pattern Recognition*, **2017**, 64, 255-267	7.7	114

463	Residual Spectral–Spatial Attention Network for Hyperspectral Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 449-462	8.1	111
462	A Novel Immune Clonal Algorithm for MO Problems. *IEEE Transactions on Evolutionary Computation*, **2012**, 16, 35-50	15.6	109
461	Discriminant deep belief network for high-resolution SAR image classification. *Pattern Recognition*, **2017**, 61, 686-701	7.7	103
460	Constrained Subproblems in a Decomposition-Based Multiobjective Evolutionary Algorithm. *IEEE Transactions on Evolutionary Computation*, **2016**, 20, 475-480	15.6	99
459	Dynamic-context cooperative quantum-behaved particle swarm optimization based on multilevel thresholding applied to medical image segmentation. *Information Sciences*, **2015**, 294, 408-422	7.7	94
458	Quantum-inspired immune clonal algorithm for global optimization. *IEEE Transactions on Systems, Man, and Cybernetics*, **2008**, 38, 1234-53		92
457	Robust adaptive global synchronization of complex dynamical networks by adjusting time-varying coupling strength. *Physica A: Statistical Mechanics and Its Applications*, **2008**, 387, 1369-1380	3.3	84
456	Multi-level learning based memetic algorithm for community detection. *Applied Soft Computing Journal*, **2014**, 19, 121-133	7.5	83
455	Superpixel-Based Multiple Local CNN for Panchromatic and Multispectral Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 4141-4156	8.1	81
454	Wishart Deep Stacking Network for Fast POLSAR Image Classification. *IEEE Transactions on Image Processing*, **2016**, 25, 3273-3286	8.7	81
453	Classification of Polarimetric SAR Images Using Multilayer Autoencoders and Superpixels. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2016**, 9, 3072-3081	4.7	80
452	Classification of Hyperspectral Images Based on Multiclass Spatial–Spectral Generative Adversarial Networks. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 5329-5343	8.1	79
451	Personalized Recommendation Based on Evolutionary Multi-Objective Optimization [Research Frontier]. *IEEE Computational Intelligence Magazine*, **2015**, 10, 52-62	5.6	79
450	Unsupervised feature selection based on maximum information and minimum redundancy for hyperspectral images. *Pattern Recognition*, **2016**, 51, 295-309	7.7	77
449	Quantum-behaved discrete multi-objective particle swarm optimization for complex network clustering. *Pattern Recognition*, **2017**, 63, 1-14	7.7	72
448	A Deep Learning Method for Change Detection in Synthetic Aperture Radar Images. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 5751-5763	8.1	71
447	Non-Negative Spectral Learning and Sparse Regression-Based Dual-Graph Regularized Feature Selection. *IEEE Transactions on Cybernetics*, **2018**, 48, 793-806	10.2	71
446	Hyperspectral Unmixing via Deep Convolutional Neural Networks. *IEEE Geoscience and Remote Sensing Letters*, **2018**, 15, 1755-1759	4.1	71

445	Mutual-Information-Based Semi-Supervised Hyperspectral Band Selection With High Discrimination, High Information, and Low Redundancy. *IEEE Transactions on Geoscience and Remote Sensing*, **2015**, 53, 2956-2969	8.1	70
444	Fusion of multispectral and panchromatic images based on support value transform and adaptive principal component analysis. *Information Fusion*, **2012**, 13, 177-184	16.7	68
443	Global discriminative-based nonnegative spectral clustering. *Pattern Recognition*, **2016**, 55, 172-182	7.7	65
442	Hyperspectral Anomaly Detection via Background and Potential Anomaly Dictionaries Construction. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 2263-2276	8.1	64
441	Multitask dictionary learning and sparse representation based single-image super-resolution reconstruction. *Neurocomputing*, **2011**, 74, 3193-3203	5.4	63
440	An organizational coevolutionary algorithm for classification. *IEEE Transactions on Evolutionary Computation*, **2006**, 10, 67-80	15.6	61
439	Spatial Sequential Recurrent Neural Network for Hyperspectral Image Classification. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2018**, 11, 4141-4155	4.7	60
438	Subspace learning-based graph regularized feature selection. *Knowledge-Based Systems*, **2016**, 112, 152-165	7.5	59
437	SAR Targets Classification Based on Deep Memory Convolution Neural Networks and Transfer Parameters. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2018**, 11, 2834-2846	4.7	58
436	A Novel Two-Step Registration Method for Remote Sensing Images Based on Deep and Local Features. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 4834-4843	8.1	58
435	Self-representation based dual-graph regularized feature selection clustering. *Neurocomputing*, **2016**, 171, 1242-1253	5.4	57
434	A Spatial Fuzzy Clustering Algorithm With Kernel Metric Based on Immune Clone for SAR Image Segmentation. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2016**, 9, 1640-1652	4.7	56
433	A multi-population cooperative coevolutionary algorithm for multi-objective capacitated arc routing problem. *Information Sciences*, **2014**, 277, 609-642	7.7	56
432	Artificial immune multi-objective SAR image segmentation with fused complementary features. *Information Sciences*, **2011**, 181, 2797-2812	7.7	55
431	CNN-Based Multilayer Spatial–Spectral Feature Fusion and Sample Augmentation With Local and Nonlocal Constraints for Hyperspectral Image Classification. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2019**, 12, 1299-1313	4.7	54
430	Unsupervised Deep Feature Learning for Remote Sensing Image Retrieval. *Remote Sensing*, **2018**, 10, 1243	5	54
429	Local Restricted Convolutional Neural Network for Change Detection in Polarimetric SAR Images. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 818-833	10.3	53
428	Recursive Autoencoders-Based Unsupervised Feature Learning for Hyperspectral Image Classification. *IEEE Geoscience and Remote Sensing Letters*, **2017**, 14, 1928-1932	4.1	53

427	Hyperspectral Image Classification Based on 3-D Octave Convolution With Spatial–Spectral Attention Network. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 2430-2447	8.1	53
426	Sig-NMS-Based Faster R-CNN Combining Transfer Learning for Small Target Detection in VHR Optical Remote Sensing Imagery. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 8534-8545	8.1	51
425	Modified Co-Training With Spectral and Spatial Views for Semisupervised Hyperspectral Image Classification. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2014**, 7, 2044-2055	4.7	51
424	POLSAR Image Classification via Wishart-AE Model or Wishart-CAE Model. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2017**, 10, 3604-3615	4.7	51
423	Polarimetric Convolutional Network for PolSAR Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 3040-3054	8.1	51
422	SAR change detection based on intensity and texture changes. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2014**, 93, 123-135	11.8	50
421	. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2019**, 12, 2612-2626	4.7	48
420	Generative Adversarial Networks Based on Collaborative Learning and Attention Mechanism for Hyperspectral Image Classification. *Remote Sensing*, **2020**, 12, 1149	5	48
419	. *IEEE Access*, **2019**, 7, 104848-104863	3.5	48
418	Transferred Deep Learning-Based Change Detection in Remote Sensing Images. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 6960-6973	8.1	47
417	Deep Multiple Instance Learning-Based Spatial–Spectral Classification for PAN and MS Imagery. *IEEE Transactions on Geoscience and Remote Sensing*, **2018**, 56, 461-473	8.1	47
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415	Supervised Band Selection Using Local Spatial Information for Hyperspectral Image. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 1-5	4.1	47
414	Fusion of multispectral and panchromatic images via sparse representation and local autoregressive model. *Information Fusion*, **2014**, 20, 73-87	16.7	47
413	SAR Images Retrieval Based on Semantic Classification and Region-Based Similarity Measure for Earth Observation. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2015**, 8, 3876-3891	4.7	46
412	Feature selection based dual-graph sparse non-negative matrix factorization for local discriminative clustering. *Neurocomputing*, **2018**, 290, 87-99	5.4	46
411	An improved cooperative quantum-behaved particle swarm optimization. *Soft Computing*, **2012**, 16, 1061-1069	3.3	46
410	Fuzzy Double C-Means Clustering Based on Sparse Self-Representation. *IEEE Transactions on Fuzzy Systems*, **2018**, 26, 612-626	8.3	45

409	RADet: Refine Feature Pyramid Network and Multi-Layer Attention Network for Arbitrary-Oriented Object Detection of Remote Sensing Images. *Remote Sensing*, **2020**, 12, 389	5	44
408	Pan-sharpening via deep metric learning. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2018**, 145, 165-183	11.8	44
407	Deep Multiscale Spectral-Spatial Feature Fusion for Hyperspectral Images Classification. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2018**, 11, 2911-2924	4.7	44
406	SAR Image Content Retrieval Based on Fuzzy Similarity and Relevance Feedback. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2017**, 10, 1824-1842	4.7	43
405	Fuzzy Superpixels for Polarimetric SAR Images Classification. *IEEE Transactions on Fuzzy Systems*, **2018**, 26, 2846-2860	8.3	42
404	A multiobjective evolutionary algorithm to find community structures based on affinity propagation. *Physica A: Statistical Mechanics and Its Applications*, **2016**, 453, 203-227	3.3	42
403	Prediction of missing links based on community relevance and ruler inference. *Knowledge-Based Systems*, **2016**, 98, 200-215	7.3	42
402	Unsupervised saliency-guided SAR image change detection. *Pattern Recognition*, **2017**, 61, 309-326	7.7	42
401	Dense connection and depthwise separable convolution based CNN for polarimetric SAR image classification. *Knowledge-Based Systems*, **2020**, 194, 105542	7.3	41
400	Hyperspectral Unmixing via Low-Rank Representation with Space Consistency Constraint and Spectral Library Pruning. *Remote Sensing*, **2018**, 10, 339	5	41
399	Quantum immune clonal coevolutionary algorithm for dynamic multiobjective optimization. *Soft Computing*, **2014**, 18, 743-756	3.5	41
398	Multiwavelet neural network and its approximation properties. *IEEE Transactions on Neural Networks*, **2001**, 12, 1060-6		41
397	Task-Oriented GAN for PolSAR Image Classification and Clustering. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 2707-2719	10.3	41
396	A Survey on the New Generation of Deep Learning in Image Processing. *IEEE Access*, **2019**, 7, 172231-172263	3.5	40
395	Attention Consistent Network for Remote Sensing Scene Classification. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2021**, 14, 2030-2045	4.7	40
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393	Hierarchical semantic model and scattering mechanism based PolSAR image classification. *Pattern Recognition*, **2016**, 59, 325-342	7.7	37
392	Stacked Fisher autoencoder for SAR change detection. *Pattern Recognition*, **2019**, 96, 106971	7.7	37

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390	Adaptive Multiscale Deep Fusion Residual Network for Remote Sensing Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 8506-8521	8.1	36
389	Multi-scale Adaptive Feature Fusion Network for Semantic Segmentation in Remote Sensing Images. *Remote Sensing*, **2020**, 12, 872	5	35
388	Adaptive Super-Resolution for Remote Sensing Images Based on Sparse Representation With Global Joint Dictionary Model. *IEEE Transactions on Geoscience and Remote Sensing*, **2018**, 56, 2312-2327	8.1	35
387	Multi-objective evolutionary fuzzy clustering for image segmentation with MOEA/D. *Applied Soft Computing Journal*, **2016**, 48, 621-637	7.5	35
386	Object-level saliency detection with color attributes. *Pattern Recognition*, **2016**, 49, 162-173	7.7	34
385	Local discriminative based sparse subspace learning for feature selection. *Pattern Recognition*, **2019**, 92, 219-230	7.7	34
384	. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2015**, 8, 2485-2500	4.7	34
383	Difference representation learning using stacked restricted Boltzmann machines for change detection in SAR images. *Soft Computing*, **2016**, 20, 4645-4657	3.5	34
382	Semi-supervised double sparse graphs based discriminant analysis for dimensionality reduction. *Pattern Recognition*, **2017**, 61, 361-378	7.7	34
381	Overlapping community detection through an improved multi-objective quantum-behaved particle swarm optimization. *Journal of Heuristics*, **2015**, 21, 549-575	1.9	34
380	A new quantum-behaved particle swarm optimization based on cultural evolution mechanism for multiobjective problems. *Knowledge-Based Systems*, **2016**, 101, 90-99	7.3	34
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377	SAR Image Classification via Hierarchical Sparse Representation and Multisize Patch Features. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 13, 33-37	4.1	32
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375	SAR Image Registration Based on Multifeature Detection and Arborescence Network Matching. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 13, 706-710	4.1	32
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373	Aerial Image Road Extraction Based on an Improved Generative Adversarial Network. *Remote Sensing*, **2019**, 11, 930	5	31
372	Synchronization in complex dynamical networks with nonsymmetric coupling. *Physica D: Nonlinear Phenomena*, **2008**, 237, 2487-2498	3.3	31
371	Large Polarimetric SAR Data Semi-Supervised Classification With Spatial-Anchor Graph. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2016**, 9, 1439-1458	4.7	30
370	Multilayer CFAR Detection of Ship Targets in Very High Resolution SAR Images. *IEEE Geoscience and Remote Sensing Letters*, **2015**, 12, 811-815	4.1	30
369	A Novel Neural Network for Remote Sensing Image Matching. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 2853-2865	10.3	30
368	C-CNN: Contourlet Convolutional Neural Networks. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 2636-2649	10.3	30
367	Fusion Similarity-Based Reranking for SAR Image Retrieval. *IEEE Geoscience and Remote Sensing Letters*, **2017**, 14, 242-246	4.1	29
366	Fuzzy Sparse Autoencoder Framework for Single Image Per Person Face Recognition. *IEEE Transactions on Cybernetics*, **2018**, 48, 2402-2415	10.2	29
365	SpectralSpatial hyperspectral image ensemble classification via joint sparse representation. *Pattern Recognition*, **2016**, 59, 42-54	7.7	29
364	Multilayer Projective Dictionary Pair Learning and Sparse Autoencoder for PolSAR Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 6683-6694	8.1	29
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362	MSARN: A Deep Neural Network Based on an Adaptive Recalibration Mechanism for Multiscale and Arbitrary-Oriented SAR Ship Detection. *IEEE Access*, **2019**, 7, 159262-159283	3.5	29
361	Attention Multibranch Convolutional Neural Network for Hyperspectral Image Classification Based on Adaptive Region Search. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 5054-5070	8.1	29
360	MOEA/D with biased weight adjustment inspired by user preference and its application on multi-objective reservoir flood control problem. *Soft Computing*, **2016**, 20, 4999-5023	3.5	28
359	A community integration strategy based on an improved modularity density increment for large-scale networks. *Physica A: Statistical Mechanics and Its Applications*, **2017**, 469, 471-485	3.3	28
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356	A Multi-kernel Joint Sparse Graph for SAR Image Segmentation. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2016**, 9, 1265-1285	4.7	28

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353	Image change detection based on an improved rough fuzzy c-means clustering algorithm. *International Journal of Machine Learning and Cybernetics*, **2014**, 5, 369-377	3.8	28
352	Building Extraction of Aerial Images by a Global and Multi-Scale Encoder-Decoder Network. *Remote Sensing*, **2020**, 12, 2350	5	28
351	Polarimetric SAR Feature Extraction With Neighborhood Preservation-Based Deep Learning. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2017**, 10, 1456-1466	4.7	27
350	Semi-Supervised Deep Fuzzy C-Mean Clustering for Imbalanced Multi-Class Classification. *IEEE Access*, **2019**, 7, 28100-28112	3.5	27
349	Multimodal Remote Sensing Image Registration Based on Image Transfer and Local Features. *IEEE Geoscience and Remote Sensing Letters*, **2019**, 16, 1210-1214	4.1	27
348	Weighted classifier ensemble based on quadratic form. *Pattern Recognition*, **2015**, 48, 1688-1706	7.7	27
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346	Data-Driven Compressive Sampling and Learning Sparse Coding for Hyperspectral Image Classification. *IEEE Geoscience and Remote Sensing Letters*, **2014**, 11, 479-483	4.1	27
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344	Imbalanced Hyperspectral Image Classification Based on Maximum Margin. *IEEE Geoscience and Remote Sensing Letters*, **2015**, 12, 522-526	4.1	26
343	A Dual-Branch Attention fusion deep network for multiresolution remote-sensing image classification. *Information Fusion*, **2020**, 58, 116-131	16.7	26
342	SAR Image Segmentation Based on Hierarchical Visual Semantic and Adaptive Neighborhood Multinomial Latent Model. *IEEE Transactions on Geoscience and Remote Sensing*, **2016**, 54, 4287-4301	8.1	26
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337	VR-SGD: A Simple Stochastic Variance Reduction Method for Machine Learning. *IEEE Transactions on Knowledge and Data Engineering*, **2020**, 32, 188-202	4.2	25
336	Classification of PolSAR Images Using Multilayer Autoencoders and a Self-Paced Learning Approach. *Remote Sensing*, **2018**, 10, 110	5	25
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320	Multi-objective evolutionary design and knowledge discovery of logic circuits based on an adaptive genetic algorithm. *Genetic Programming and Evolvable Machines*, **2006**, 7, 195-210	2	22

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314	Density shrinking algorithm for community detection with path based similarity. *Physica A: Statistical Mechanics and Its Applications*, **2015**, 433, 218-228	3.3	20
313	Quantum Optimization and Quantum Learning: A Survey. *IEEE Access*, **2020**, 8, 23568-23593	3.5	20
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