Jiao Licheng

List of Publications by Citations

490 papers	8,528 citations	45 h-index	70 g-index
552 ext. papers	10,715 ext. citations	4.6 avg, IF	6.97 L-index

#	Paper	IF	Citations
490	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
489	A Survey of Deep Learning-Based Object Detection. *IEEE Access*, **2019**, 7, 128837-128868	3.5	310
488	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
487	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
486	Adaptive Backstepping Fuzzy Control for Nonlinearly Parameterized Systems With Periodic Disturbances. *IEEE Transactions on Fuzzy Systems*, **2010**, 18, 674-685	8.3	166
485	Spectral Clustering Ensemble Applied to SAR Image Segmentation. *IEEE Transactions on Geoscience and Remote Sensing*, **2008**, 46, 2126-2136	8.1	159
484	Remote Sensing Image Registration With Modified SIFT and Enhanced Feature Matching. *IEEE Geoscience and Remote Sensing Letters*, **2017**, 14, 3-7	4.1	142
483	Position-Patch Based Face Hallucination Using Convex Optimization. *IEEE Signal Processing Letters*, **2011**, 18, 367-370	3.2	135
482	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
481	Residual Spectral–Spatial Attention Network for Hyperspectral Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 449-462	8.1	111
480	Constrained Subproblems in a Decomposition-Based Multiobjective Evolutionary Algorithm. *IEEE Transactions on Evolutionary Computation*, **2016**, 20, 475-480	15.6	99
479	Quantum-inspired immune clonal algorithm for global optimization. *IEEE Transactions on Systems, Man, and Cybernetics*, **2008**, 38, 1234-53		92
478	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
477	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
476	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
475	Personalized Recommendation Based on Evolutionary Multi-Objective Optimization [Research Frontier]. *IEEE Computational Intelligence Magazine*, **2015**, 10, 52-62	5.6	79
474	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

473	Hyperspectral Unmixing via Deep Convolutional Neural Networks. *IEEE Geoscience and Remote Sensing Letters*, **2018**, 15, 1755-1759	4.1	71
472	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
471	Spatial Spectral-Graph-Regularized Low-Rank Tensor Decomposition for Multispectral and Hyperspectral Image Fusion. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2018**, 11, 1030-1040	4.7	69
470	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
469	Fusion Methods for CNN-Based Automatic Modulation Classification. *IEEE Access*, **2019**, 7, 66496-66504	3.5	59
468	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
467	New Hierarchical Saliency Filtering for Fast Ship Detection in High-Resolution SAR Images. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 351-362	8.1	58
466	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
465	Discrete particle swarm optimization for identifying community structures in signed social networks. *Neural Networks*, **2014**, 58, 4-13	9.1	57
464	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
463	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
462	Unsupervised Deep Feature Learning for Remote Sensing Image Retrieval. *Remote Sensing*, **2018**, 10, 1243	5	54
461	Recursive Autoencoders-Based Unsupervised Feature Learning for Hyperspectral Image Classification. *IEEE Geoscience and Remote Sensing Letters*, **2017**, 14, 1928-1932	4.1	53
460	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
459	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
458	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
457	Fuzzy c-means clustering with non local spatial information for noisy image segmentation. *Frontiers of Computer Science*, **2011**, 5, 45-56		51
456	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

455	Polarimetric Convolutional Network for PolSAR Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 3040-3054	8.1	51
454	Compressive Hyperspectral Imaging via Sparse Tensor and Nonlinear Compressed Sensing. *IEEE Transactions on Geoscience and Remote Sensing*, **2015**, 53, 5943-5957	8.1	48
453	Generative Adversarial Networks Based on Collaborative Learning and Attention Mechanism for Hyperspectral Image Classification. *Remote Sensing*, **2020**, 12, 1149	5	48
452	Enhancing robustness of coupled networks under targeted recoveries. *Scientific Reports*, **2015**, 5, 8439	4.9	48
451	Transferred Deep Learning-Based Change Detection in Remote Sensing Images. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 6960-6973	8.1	47
450	Deep Multiple Instance Learning-Based Spatial┨pectral Classification for PAN and MS Imagery. *IEEE Transactions on Geoscience and Remote Sensing*, **2018**, 56, 461-473	8.1	47
449	Multifeature Hyperspectral Image Classification With Local and Nonlocal Spatial Information via Markov Random Field in Semantic Space. *IEEE Transactions on Geoscience and Remote Sensing*, **2018**, 56, 1409-1424	8.1	47
448	Supervised Band Selection Using Local Spatial Information for Hyperspectral Image. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 1-5	4.1	47
447	An improved cooperative quantum-behaved particle swarm optimization. *Soft Computing*, **2012**, 16, 1061-1069	3.5	46
446	Fuzzy Double C-Means Clustering Based on Sparse Self-Representation. *IEEE Transactions on Fuzzy Systems*, **2018**, 26, 612-626	8.3	45
445	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
444	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
443	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
442	Fuzzy Superpixels for Polarimetric SAR Images Classification. *IEEE Transactions on Fuzzy Systems*, **2018**, 26, 2846-2860	8.3	42
441	Dense connection and depthwise separable convolution based CNN for polarimetric SAR image classification. *Knowledge-Based Systems*, **2020**, 194, 105542	7.3	41
440	Hyperspectral Unmixing via Low-Rank Representation with Space Consistency Constraint and Spectral Library Pruning. *Remote Sensing*, **2018**, 10, 339	5	41
439	Quantum immune clonal coevolutionary algorithm for dynamic multiobjective optimization. *Soft Computing*, **2014**, 18, 743-756	3.5	41
438	A Survey on the New Generation of Deep Learning in Image Processing. *IEEE Access*, **2019**, 7, 172231-172263	3.5	40

437	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
436	SAR Image Despeckling Using Edge Detection and Feature Clustering in Bandelet Domain. *IEEE Geoscience and Remote Sensing Letters*, **2010**, 7, 131-135	4.1	38
435	MOEA/D with uniform decomposition measurement for many-objective problems. *Soft Computing*, **2014**, 18, 2541-2564	3.5	37
434	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
433	Fast Multifeature Joint Sparse Representation for Hyperspectral Image Classification. *IEEE Geoscience and Remote Sensing Letters*, **2015**, 12, 1397-1401	4.1	35
432	Multi-scale Adaptive Feature Fusion Network for Semantic Segmentation in Remote Sensing Images. *Remote Sensing*, **2020**, 12, 872	5	35
431	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
430	NNIA-RS: A multi-objective optimization based recommender system. *Physica A: Statistical Mechanics and Its Applications*, **2015**, 424, 383-397	3.3	35
429	Difference representation learning using stacked restricted Boltzmann machines for change detection in SAR images. *Soft Computing*, **2016**, 20, 4645-4657	3.5	34
428	Overlapping community detection through an improved multi-objective quantum-behaved particle swarm optimization. *Journal of Heuristics*, **2015**, 21, 549-575	1.9	34
427	ADAPTIVE RANKS CLONE AND k-NEAREST NEIGHBOR LIST BASED IMMUNE MULTI-OBJECTIVE OPTIMIZATION. *Computational Intelligence*, **2010**, 26, 359-385	2.5	34
426	A Sparse Spectral Clustering Framework via Multiobjective Evolutionary Algorithm. *IEEE Transactions on Evolutionary Computation*, **2016**, 20, 418-433	15.6	32
425	Integration of improved predictive model and adaptive differential evolution based dynamic multi-objective evolutionary optimization algorithm. *Applied Intelligence*, **2015**, 43, 192-207	4.9	32
424	SAR Image Classification via Hierarchical Sparse Representation and Multisize Patch Features. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 13, 33-37	4.1	32
423	SAR Image Registration Based on Multifeature Detection and Arborescence Network Matching. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 13, 706-710	4.1	32
422	Tensor-Based Low-Rank Graph With Multimanifold Regularization for Dimensionality Reduction of Hyperspectral Images. *IEEE Transactions on Geoscience and Remote Sensing*, **2018**, 56, 4731-4746	8.1	32
421	Aerial Image Road Extraction Based on an Improved Generative Adversarial Network. *Remote Sensing*, **2019**, 11, 930	5	31
420	Change Detection in Remote Sensing Images Based on Image Mapping and a Deep Capsule Network. *Remote Sensing*, **2019**, 11, 626	5	31

419	Discriminative Spectral–Spatial Margin-Based Semisupervised Dimensionality Reduction of Hyperspectral Data. *IEEE Geoscience and Remote Sensing Letters*, **2015**, 12, 224-228	4.1	31
418	Novel heuristic density-based method for community detection in networks. *Physica A: Statistical Mechanics and Its Applications*, **2014**, 403, 71-84	3.3	31
417	Lossy-to-Lossless Hyperspectral Image Compression Based on Multiplierless Reversible Integer TDLT/KLT. *IEEE Geoscience and Remote Sensing Letters*, **2009**, 6, 587-591	4.1	31
416	Hyperspectral Band Selection Using Improved Classification Map. *IEEE Geoscience and Remote Sensing Letters*, **2017**, 14, 2147-2151	4.1	30
415	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
414	Big Data Processing Architecture for Radio Signals Empowered by Deep Learning: Concept, Experiment, Applications and Challenges. *IEEE Access*, **2018**, 6, 55907-55922	3.5	30
413	Fusion Similarity-Based Reranking for SAR Image Retrieval. *IEEE Geoscience and Remote Sensing Letters*, **2017**, 14, 242-246	4.1	29
412	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
411	Deep Hash Learning for Remote Sensing Image Retrieval. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 3420-3443	8.1	29
410	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
409	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
408	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
407	Multiple Kernel Learning Based on Discriminative Kernel Clustering for Hyperspectral Band Selection. *IEEE Transactions on Geoscience and Remote Sensing*, **2016**, 54, 6516-6530	8.1	28
406	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
405	CNN-Based Polarimetric Decomposition Feature Selection for PolSAR Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 8796-8812	8.1	28
404	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
403	A novel cooperative coevolutionary dynamic multi-objective optimization algorithm using a new predictive model. *Soft Computing*, **2014**, 18, 1913-1929	3.5	28
402	ADAPTIVE MULTI-OBJECTIVE OPTIMIZATION BASED ON NONDOMINATED SOLUTIONS. *Computational Intelligence*, **2009**, 25, 84-108	2.5	28

401	Multicontourlet-Based Adaptive Fusion of Infrared and Visible Remote Sensing Images. *IEEE Geoscience and Remote Sensing Letters*, **2010**, 7, 549-553	4.1	28
400	Building Extraction of Aerial Images by a Global and Multi-Scale Encoder-Decoder Network. *Remote Sensing*, **2020**, 12, 2350	5	28
399	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
398	Semi-Supervised Deep Fuzzy C-Mean Clustering for Imbalanced Multi-Class Classification. *IEEE Access*, **2019**, 7, 28100-28112	3.5	27
397	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
396	Imbalanced Hyperspectral Image Classification Based on Maximum Margin. *IEEE Geoscience and Remote Sensing Letters*, **2015**, 12, 522-526	4.1	26
395	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
394	Semisupervised Feature Extraction With Neighborhood Constraints for Polarimetric SAR Classification. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2016**, 9, 3001-3015	4.7	26
393	Deep Learning for Large-Scale Real-World ACARS and ADS-B Radio Signal Classification. *IEEE Access*, **2019**, 7, 89256-89264	3.5	25
392	A Three-Component Fisher-Based Feature Weighting Method for Supervised PolSAR Image Classification. *IEEE Geoscience and Remote Sensing Letters*, **2015**, 12, 731-735	4.1	25
391	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
390	Classification of PolSAR Images Using Multilayer Autoencoders and a Self-Paced Learning Approach. *Remote Sensing*, **2018**, 10, 110	5	25
389	Patch-Sorted Deep Feature Learning for High Resolution SAR Image Classification. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2018**, 11, 3113-3126	4.7	24
388	A Salient Region Detection and Pattern Matching-Based Algorithm for Center Detection of a Partially Covered Tropical Cyclone in a SAR Image. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 280-291	8.1	24
387	Semisupervised Affinity Propagation Based on Normalized Trivariable Mutual Information for Hyperspectral Band Selection. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2015**, 8, 2760-2773	4.7	24
386	Deep learning to classify difference image for image change detection **2014**,		24
385	GRS-Det: An Anchor-Free Rotation Ship Detector Based on Gaussian-Mask in Remote Sensing Images. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 3518-3531	8.1	24
384	Imbalanced Learning-Based Automatic SAR Images Change Detection by Morphologically Supervised PCA-Net. *IEEE Geoscience and Remote Sensing Letters*, **2019**, 16, 554-558	4.1	24

383	Semisupervised Dual-Geometric Subspace Projection for Dimensionality Reduction of Hyperspectral Image Data. *IEEE Transactions on Geoscience and Remote Sensing*, **2014**, 52, 3587-3593	8.1	23
382	Dimensionality Reduction of Hyperspectral Imagery Using Sparse Graph Learning. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2017**, 10, 1165-1181	4.7	23
381	Remote Sensing Image Super-Resolution Reconstruction Based on Nonlocal Pairwise Dictionaries and Double Regularization. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2014**, 7, 4784-4792	4.7	23
380	Immune algorithm with orthogonal design based initialization, cloning, and selection for global optimization. *Knowledge and Information Systems*, **2010**, 25, 523-549	2.4	23
379	Fully Convolutional Network-Based Ensemble Method for Road Extraction From Aerial Images. *IEEE Geoscience and Remote Sensing Letters*, **2020**, 17, 1777-1781	4.1	23
378	Adaptive Nonlocal Spatial-Spectral Kernel for Hyperspectral Imagery Classification. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2016**, 9, 4086-4101	4.7	23
377	Local Descriptor Learning for Change Detection in Synthetic Aperture Radar Images via Convolutional Neural Networks. *IEEE Access*, **2019**, 7, 15389-15403	3.5	23
376	Geometric Nonnegative Matrix Factorization (GNMF) for Hyperspectral Unmixing. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2015**, 8, 2696-2703	4.7	22
375	A Novel Multi-Model Decision Fusion Network for Object Detection in Remote Sensing Images. *Remote Sensing*, **2019**, 11, 737	5	22
374	Pansharpening Based on Low-Rank and Sparse Decomposition. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2014**, 7, 4793-4805	4.7	22
373	Band selection and evaluation with spatial information. *International Journal of Remote Sensing*, **2016**, 37, 4501-4520	3.1	21
372	Hyperspectral Image Classification Based on Deep Attention Graph Convolutional Network. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-16	8.1	21
371	A Similarity-Based Multiobjective Evolutionary Algorithm for Deployment Optimization of Near Space Communication System. *IEEE Transactions on Evolutionary Computation*, **2017**, 21, 878-897	15.6	20
370	Quantum Optimization and Quantum Learning: A Survey. *IEEE Access*, **2020**, 8, 23568-23593	3.5	20
369	Multipath Residual Network for Spectral-Spatial Hyperspectral Image Classification. *Remote Sensing*, **2019**, 11, 1896	5	20
368	Local Maximal Homogeneous Region Search for SAR Speckle Reduction With Sketch-Based Geometrical Kernel Function. *IEEE Transactions on Geoscience and Remote Sensing*, **2014**, 52, 5751-5764	8.1	20
367	Unsupervised evolutionary clustering algorithm for mixed type data **2010**,		20
366	Hybrid immune algorithm with Lamarckian local search for multi-objective optimization. *Memetic Computing*, **2010**, 2, 47-67	3.4	20

365	Fully Dense Multiscale Fusion Network for Hyperspectral Image Classification. *Remote Sensing*, **2019**, 11, 2718	5	20
364	A Novel Deep Fully Convolutional Network for PolSAR Image Classification. *Remote Sensing*, **2018**, 10, 1984	5	20
363	Deep Multiple Feature Fusion for Hyperspectral Image Classification. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2018**, 11, 3880-3891	4.7	20
362	Multitask Semantic Boundary Awareness Network for Remote Sensing Image Segmentation. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-14	8.1	20
361	Joint Sparse Recovery With Semisupervised MUSIC. *IEEE Signal Processing Letters*, **2017**, 24, 629-633	3.2	19
360	Semi-Supervised Hyperspectral Band Selection Based on Dynamic Classifier Selection. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2019**, 12, 1289-1298	4.7	19
359	Multi-Scale Image Block-Level F-CNN for Remote Sensing Images Object Detection. *IEEE Access*, **2019**, 7, 43607-43621	3.5	19
358	Change Detection Based on Multi-Grained Cascade Forest and Multi-Scale Fusion for SAR Images. *Remote Sensing*, **2019**, 11, 142	5	19
357	Self-Supervised Representation Learning for Remote Sensing Image Change Detection Based on Temporal Prediction. *Remote Sensing*, **2020**, 12, 1868	5	19
356	Semi-supervised low-rank representation graph for pattern recognition. *IET Image Processing*, **2013**, 7, 131-136	1.7	19
355	SAR Images Change Detection Based on Spatial Coding and Nonlocal Similarity Pooling. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2016**, 9, 3452-3466	4.7	19
354	A Fast Algorithm for SAR Image Segmentation Based on Key Pixels. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2017**, 10, 5657-5673	4.7	18
353	SAR image change detection based on deep denoising and CNN. *IET Image Processing*, **2019**, 13, 1509-1515	1.7	18
352	A dynamic multiple populations particle swarm optimization algorithm based on decomposition and prediction. *Applied Soft Computing Journal*, **2018**, 73, 434-459	7.5	18
351	Link prediction in complex networks based on an information allocation index. *Physica A: Statistical Mechanics and Its Applications*, **2017**, 470, 1-11	3.3	17
350	CRIM-FCHO: SAR Image Two-Stage Segmentation With Multifeature Ensemble. *IEEE Transactions on Geoscience and Remote Sensing*, **2016**, 54, 2400-2423	8.1	17
349	Saliency-guided change detection for SAR imagery using a semi-supervised Laplacian SVM. *Remote Sensing Letters*, **2016**, 7, 1043-1052	2.3	17
348	Rotation-Based Deep Forest for Hyperspectral Imagery Classification. *IEEE Geoscience and Remote Sensing Letters*, **2019**, 16, 1105-1109	4.1	16

347	A Hybrid Method of SAR Speckle Reduction Based on Geometric-Structural Block and Adaptive Neighborhood. *IEEE Transactions on Geoscience and Remote Sensing*, **2018**, 56, 730-748	8.1	16
346	Semisupervised Discriminant Feature Learning for SAR Image Category via Sparse Ensemble. *IEEE Transactions on Geoscience and Remote Sensing*, **2016**, 54, 3532-3547	8.1	16
345	Marginal Stacked Autoencoder With Adaptively-Spatial Regularization for Hyperspectral Image Classification. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2018**, 11, 3297-3311	4.7	16
344	Unsupervised change detection in SAR images based on locally fitting model and semi-EM algorithm. *International Journal of Remote Sensing*, **2014**, 35, 621-650	3.1	16
343	Robust Semisupervised Classification for PolSAR Image With Noisy Labels. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 6440-6455	8.1	16
342	A Novel Clonal Selection Algorithm for Community Detection in Complex Networks. *Computational Intelligence*, **2015**, 31, 442-464	2.5	16
341	Decomposition-based multiobjective evolutionary algorithm for community detection in dynamic social networks. *Scientific World Journal, The*, **2014**, 2014, 402345	2.2	16
340	ViT-YOLO:Transformer-Based YOLO for Object Detection **2021**,		16
339	A Deep Detection Network Based on Interaction of Instance Segmentation and Object Detection for SAR Images. *Remote Sensing*, **2021**, 13, 2582	5	16
338	Densely connected deep random forest for hyperspectral imagery classification. *International Journal of Remote Sensing*, **2019**, 40, 3606-3622	3.1	16
337	Cross-Layer Attention Network for Small Object Detection in Remote Sensing Imagery. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2021**, 14, 2148-2161	4.7	16
336	Deep Reinforcement Learning for Semisupervised Hyperspectral Band Selection. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-19	8.1	16
335	Decomposition-Feature-Iterative-Clustering-Based Superpixel Segmentation for PolSAR Image Classification. *IEEE Geoscience and Remote Sensing Letters*, **2018**, 15, 1239-1243	4.1	16
334	NAS-Guided Lightweight Multiscale Attention Fusion Network for Hyperspectral Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 8754-8767	8.1	16
333	Hyperspectral band selection with objective image quality assessment. *International Journal of Remote Sensing*, **2017**, 38, 3656-3668	3.1	15
332	Compressive feature and kernel sparse coding-based radar target recognition. *IET Radar, Sonar and Navigation*, **2013**, 7, 755-763	1.4	15
331	A clustering algorithm with optimized multiscale spatial texture information: application to SAR image segmentation. *International Journal of Remote Sensing*, **2013**, 34, 1111-1126	3.1	15
330	Hyperspectral Imagery Classification Based on Contrastive Learning. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-1	8.1	15

329	Efficient Convolutional Neural Architecture Search for Remote Sensing Image Scene Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 6092-6105	8.1	15
328	Novel Adaptive Component-Substitution-Based Pan-Sharpening Using Particle Swarm Optimization. *IEEE Geoscience and Remote Sensing Letters*, **2015**, 12, 781-785	4.1	14
327	Anisotropic-Scale-Space-Based Salient-Region Detection for SAR Images. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 1-5	4.1	14
326	Semi-Supervised PolSAR Image Classification Based on Self-Training and Superpixels. *Remote Sensing*, **2019**, 11, 1933	5	14
325	Fuzzy clustering with non-local information for image segmentation. *International Journal of Machine Learning and Cybernetics*, **2014**, 5, 845-859	3.8	14
324	Object Detection in High-Resolution Panchromatic Images Using Deep Models and Spatial Template Matching. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 956-970	8.1	14
323	Hyperspectral Anomaly Detection Based on Low-Rank Representation With Data-Driven Projection and Dictionary Construction. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2020**, 13, 2226-2239	4.7	14
322	Dual-Channel Capsule Generation Adversarial Network for Hyperspectral Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-16	8.1	14
321	Spectral Partitioning Residual Network With Spatial Attention Mechanism for Hyperspectral Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-14	8.1	14
320	Multiobjective nondominated neighbor coevolutionary algorithm with elite population. *Soft Computing*, **2015**, 19, 1329-1349	3.5	13
319	Superpixel Boundary-Based Edge Description Algorithm for SAR Image Segmentation. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2020**, 13, 1972-1985	4.7	13
318	POL-SAR Image Classification Based on Modified Stacked Autoencoder Network and Data Distribution. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 1678-1695	8.1	13
317	A Distribution and Structure Match Generative Adversarial Network for SAR Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 3864-3880	8.1	13
316	Detecting changes of the Yellow River Estuary via SAR images based on a local fit-search model and kernel-induced graph cuts. *International Journal of Remote Sensing*, **2014**, 35, 4009-4030	3.1	13
315	Unsupervised Classification of Polarimetirc SAR Image Via Improved Manifold Regularized Low-Rank Representation With Multiple Features. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2017**, 10, 580-595	4.7	13
314	Decomposition based multiobjective evolutionary algorithm for collaborative filtering recommender systems **2014**,		13
313	An Unsupervised Remote Sensing Change Detection Method Based on Multiscale Graph Convolutional Network and Metric Learning. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-15	8.1	13
312	Divide-and-Conquer Dual-Architecture Convolutional Neural Network for Classification of Hyperspectral Images. *Remote Sensing*, **2019**, 11, 484	5	12

311	Anchor-Free Single Stage Detector in Remote Sensing Images Based on Multiscale Dense Path Aggregation Feature Pyramid Network. *IEEE Access*, **2020**, 8, 63121-63133	3.5	12
310	Using deep neural networks for synthetic aperture radar image registration **2016**,		12
309	Fast Classification for Large Polarimetric SAR Data Based on Refined Spatial-Anchor Graph. *IEEE Geoscience and Remote Sensing Letters*, **2017**, 14, 1589-1593	4.1	12
308	Spectral-Difference Low-Rank Representation Learning for Hyperspectral Anomaly Detection. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-14	8.1	12
307	Medical image denoising based on sparse dictionary learning and cluster ensemble. *Soft Computing*, **2018**, 22, 1467-1473	3.5	12
306	Complex-Valued Convolutional Autoencoder and Spatial Pixel-Squares Refinement for Polarimetric SAR Image Classification. *Remote Sensing*, **2019**, 11, 522	5	11
305	PolSAR Feature Extraction Via Tensor Embedding Framework for Land Cover Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 2337-2351	8.1	11
304	A multiscale object detection approach for remote sensing images based on MSE-DenseNet and the dynamic anchor assignment. *Remote Sensing Letters*, **2019**, 10, 959-967	2.3	11
303	Hyperspectral Image Classification Based on Relaxed Clustering Assumption and Spatial Laplace Regularizer. *IEEE Geoscience and Remote Sensing Letters*, **2014**, 11, 901-905	4.1	11
302	Semisupervised PolSAR Image Classification Based on Improved Cotraining. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2017**, 10, 4971-4986	4.7	11
301	Polarimetric SAR images classification using deep belief networks with learning features **2015**,		11
300	Multiobjective optimization using an immunodominance and clonal selection inspired algorithm. *Science in China Series F: Information Sciences*, **2008**, 51, 1064-1082		11
299	Unsupervised feature selection based on self-representation sparse regression and local similarity preserving. *International Journal of Machine Learning and Cybernetics*, **2019**, 10, 757-770	3.8	11
298	Selective Adversarial Adaptation-Based Cross-Scene Change Detection Framework in Remote Sensing Images. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 2188-2203	8.1	11
297	Hyperspectral Image Classification With Mixed Link Networks. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2021**, 14, 2494-2507	4.7	11
296	A Mutual Information-Based Self-Supervised Learning Model for PolSAR Land Cover Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-14	8.1	11
295	High-Level Feature Selection With Dictionary Learning for Unsupervised SAR Imagery Terrain Classification. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2017**, 10, 145-160	4.7	10
294	How Can Despeckling and Structural Features Benefit to Change Detection on Bitemporal SAR Images?. *Remote Sensing*, **2019**, 11, 421	5	10

293	Change detection in synthetic aperture radar images based on evolutionary multiobjective optimization with ensemble learning. *Memetic Computing*, **2015**, 7, 275-289	3.4	10
292	A Multi-Level Attention Model for Remote Sensing Image Captions. *Remote Sensing*, **2020**, 12, 939	5	10
291	Patch Tensor-Based Sparse and Low-Rank Graph for Hyperspectral Images Dimensionality Reduction. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2018**, 11, 2513-2527	4.7	10
290	A preference multi-objective optimization based on adaptive rank clone and differential evolution. *Natural Computing*, **2013**, 12, 109-132	1.3	10
289	Global Synchronization and State Tuning in Asymmetric Complex Dynamical Networks. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2008**, 55, 932-936	3.5	10
288	Denoising of low dose CT image with context-based BM3D **2016**,		10
287	Variational Learning of Mixture Wishart Model for PolSAR Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 141-154	8.1	10
286	Unsupervised feature selection based on kernel fisher discriminant analysis and regression learning. *Machine Learning*, **2019**, 108, 659-686	4	10
285	SAR Image Change Detection via Spatial Metric Learning With an Improved Mahalanobis Distance. *IEEE Geoscience and Remote Sensing Letters*, **2020**, 17, 77-81	4.1	10
284	Large-Scale Semantic 3-D Reconstruction: Outcome of the 2019 IEEE GRSS Data Fusion Contest—Part B. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2021**, 14, 1158-1170	4.7	10
283	Immune clonal selection algorithm for capacitated arc routing problem. *Soft Computing*, **2016**, 20, 2177-2204	3.5	9
282	An orthogonal predictive model-based dynamic multi-objective optimization algorithm. *Soft Computing*, **2015**, 19, 3083-3107	3.5	9
281	SAR Image Segmentation Using Region Smoothing and Label Correction. *Remote Sensing*, **2020**, 12, 803	5	9
280	Hyperspectral imagery classification with cascaded support vector machines and multi-scale superpixel segmentation. *International Journal of Remote Sensing*, **2020**, 41, 4530-4550	3.1	9
279	Unsupervised High-Level Feature Extraction of SAR Imagery With Structured Sparsity Priors and Incremental Dictionary Learning. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 13, 1467-1471	4.1	9
278	Immune clonal coevolutionary algorithm for dynamic multiobjective optimization. *Natural Computing*, **2014**, 13, 421-445	1.3	9
277	Link prediction in complex networks via matrix perturbation and decomposition. *Scientific Reports*, **2017**, 7, 14724	4.9	9
276	A multipopulation coevolutionary strategy for multiobjective immune algorithm. *Scientific World Journal, The*, **2014**, 2014, 539128	2.2	9

275	LAMARCKIAN LEARNING IN CLONAL SELECTION ALGORITHM FOR NUMERICAL OPTIMIZATION. *International Journal on Artificial Intelligence Tools*, **2010**, 19, 19-37	0.9	9
274	Spectral clustering based unsupervised change detection in SAR images **2011**,		9
273	Feature Split-Merge-Enhancement Network for Remote Sensing Object Detection. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 1-1	8.1	9
272	Superjunction LDMOS With Dual Gate for Low On-Resistance and High Transconductance. *IEEE Journal of the Electron Devices Society*, **2020**, 8, 890-896	2.3	9
271	Hierarchical Sparse Learning with Spectral-Spatial Information for Hyperspectral Imagery Denoising. *Sensors*, **2016**, 16,	3.8	9
270	DeepReceiver: A Deep Learning-Based Intelligent Receiver for Wireless Communications in the Physical Layer. *IEEE Transactions on Cognitive Communications and Networking*, **2021**, 7, 5-20	6.6	9
269	A Lightweight Spectral-Spatial Convolution Module for Hyperspectral Image Classification. *IEEE Geoscience and Remote Sensing Letters*, **2021**, 1-5	4.1	9
268	HomoHeterogenous Transformer Learning Framework for RS Scene Classification. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2022**, 15, 2223-2239	4.7	9
267	A study of large-scale data clustering based on fuzzy clustering. *Soft Computing*, **2016**, 20, 3231-3242	3.5	8
266	Fast Semisupervised Classification Using Histogram-Based Density Estimation for Large-Scale Polarimetric SAR Data. *IEEE Geoscience and Remote Sensing Letters*, **2019**, 16, 1844-1848	4.1	8
265	Hyperspectral imagery classification using local collaborative representation. *International Journal of Remote Sensing*, **2015**, 36, 734-748	3.1	8
264	Learning to Rank with Ensemble Ranking SVM. *Neural Processing Letters*, **2015**, 42, 703-714	2.4	8
263	Scaling cut criterion-based discriminant analysis for supervised dimension reduction. *Knowledge and Information Systems*, **2015**, 43, 633-655	2.4	8
262	A Convolutional Neural Network with Parallel Multi-Scale Spatial Pooling to Detect Temporal Changes in SAR Images. *Remote Sensing*, **2020**, 12, 1619	5	8
261	Online Active Extreme Learning Machine With Discrepancy Sampling for PolSAR Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 2027-2041	8.1	8
260	Target-Oriented High-Resolution SAR Image Formation via Semantic Information Guided Regularizations. *IEEE Transactions on Geoscience and Remote Sensing*, **2018**, 56, 1922-1939	8.1	8
259	Sketching Model and Higher Order Neighborhood Markov Random Field-Based SAR Image Segmentation. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 13, 1686-1690	4.1	8
258	Co-evolution-based immune clonal algorithm for clustering. *Soft Computing*, **2016**, 20, 1503-1519	3.5	8

257	Discriminative Feature Learning for Real-Time SAR Automatic Target Recognition With the Nonlinear Analysis Cosparse Model. *IEEE Geoscience and Remote Sensing Letters*, **2018**, 15, 1045-1049	4.1	8
256	Improved RM-MEDA with local learning. *Soft Computing*, **2014**, 18, 1383-1397	3.5	8
255	A Novel Image Representation Framework Based on Gaussian Model and Evolutionary Optimization. *IEEE Transactions on Evolutionary Computation*, **2017**, 21, 265-280	15.6	8
254	An intelligent ant colony optimization for community detection in complex networks **2014**,		8
253	A memetic algorithm based on Immune multi-objective optimization for flexible job-shop scheduling problems **2014**,		8
252	Intelligent multi-user detection using an artificial immune system. *Science in China Series F: Information Sciences*, **2009**, 52, 2342-2353		8
251	Semantic Segmentation for SAR Image Based on Texture Complexity Analysis and Key Superpixels. *Remote Sensing*, **2020**, 12, 2141	5	8
250	Local Collaborative Representation With Adaptive Dictionary Selection for Hyperspectral Image Classification. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 13, 1482-1486	4.1	8
249	A Nonlocal Means for Speckle Reduction of SAR Image With Multiscale-Fusion-Based Steerable Kernel Function. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 13, 1646-1650	4.1	8
248	A Superpixel-Based Relational Auto-Encoder for Feature Extraction of Hyperspectral Images. *Remote Sensing*, **2019**, 11, 2454	5	8
247	Deep Generative Matching Network for Optical and SAR Image Registration **2018**,		8
246	The Empirical Study of Semi-Supervised Deep Fuzzy C-Mean Clustering for Software Fault Prediction. *IEEE Access*, **2018**, 6, 47047-47061	3.5	8
245	PolSAR image classification via multimodal sparse representation-based feature fusion. *International Journal of Remote Sensing*, **2018**, 39, 7861-7880	3.1	8
244	An r-dominance-based preference multi-objective optimization for many-objective optimization. *Soft Computing*, **2017**, 21, 5003-5024	3.5	7
243	Spectral Spatial Hyperspectral Image Classification Using Cascaded Markov Random Fields. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2019**, 12, 4861-4872	4.7	7
242	Fuzzy Superpixels Based Semi-Supervised Similarity-Constrained CNN for PolSAR Image Classification. *Remote Sensing*, **2020**, 12, 1694	5	7
241	Quantum-inspired multi-objective optimization evolutionary algorithm based on decomposition. *Soft Computing*, **2016**, 20, 3257-3272	3.5	7
240	Nonnegative Matrix Factorization with Rank Regularization and Hard Constraint. *Neural Computation*, **2017**, 29, 2553-2579	2.9	7

239	An Orthogonal Learning Differential Evolution Algorithm for Remote Sensing Image Registration. *Mathematical Problems in Engineering*, **2014**, 2014, 1-11	1.1	7
238	A memetic algorithm for solving flexible Job-Shop Scheduling Problems **2014**,		7
237	Compressive Sensing-Inspired Dual-Sparse SLFNN for Hyperspectral Imagery Classification. *IEEE Geoscience and Remote Sensing Letters*, **2014**, 11, 220-224	4.1	7
236	Shape-Adaptive Reversible Integer Lapped Transform for Lossy-to-Lossless ROI Coding of Remote Sensing Two-Dimensional Images. *IEEE Geoscience and Remote Sensing Letters*, **2011**, 8, 326-330	4.1	7
235	Soft spectral clustering ensemble applied to image segmentation. *Frontiers of Computer Science*, **2011**, 5, 66-78		7
234	Support vectors pre-extracting for support vector machine based on K nearest neighbour method **2008**,		7
233	Background Subtraction Based on GAN and Domain Adaptation for VHR Optical Remote Sensing Videos. *IEEE Access*, **2020**, 8, 119144-119157	3.5	7
232	A Multiscale Self-Adaptive Attention Network for Remote Sensing Scene Classification. *Remote Sensing*, **2020**, 12, 2209	5	7
231	Scene Attention Mechanism for Remote Sensing Image Caption Generation **2020**,		7
230	Refined Pan-Sharpening With NSCT and Hierarchical Sparse Autoencoder. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2016**, 9, 5715-5725	4.7	7
229	High-Resolution SAR Change Detection Based on ROI and SPP Net. *IEEE Access*, **2019**, 7, 177009-177022	3.5	7
228	A Novel Deep Feature Fusion Network For Remote Sensing Scene Classification **2019**,		7
227	Multi-Scale Feature Fusion Network for Object Detection in VHR Optical Remote Sensing Images **2019**,		7
226	Change Detection in SAR Images Using Multiobjective Optimization and Ensemble Strategy. *IEEE Geoscience and Remote Sensing Letters*, **2021**, 18, 1585-1589	4.1	7
225	Dual-Collaborative Fusion Model for Multispectral and Panchromatic Image Fusion. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-15	8.1	7
224	Laplacian Feature Pyramid Network for Object Detection in VHR Optical Remote Sensing Images. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-14	8.1	7
223	A Semi-Supervised CNN With Fuzzy Rough C-Mean for Image Classification. *IEEE Access*, **2019**, 7, 49641-49652	3.5	6
222	Adaptive Constraint Propagation for Semi-Supervised Kernel Matrix Learning. *Neural Processing Letters*, **2015**, 41, 107-123	2.4	6

221	2D to 3D conversion with motion-type adaptive depth estimation. *Multimedia Systems*, **2015**, 21, 451-464	1.2	6
220	Sketch-Based Region Adaptive Sparse Unmixing Applied to Hyperspectral Image. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 8840-8856	8.1	6
219	Modified Tensor Distance-Based Multiview Spectral Embedding for PolSAR Land Cover Classification. *IEEE Geoscience and Remote Sensing Letters*, **2020**, 17, 2095-2099	4.1	6
218	Quantum-Inspired Immune Clonal Algorithm for solving large-scale capacitated arc routing problems. *Memetic Computing*, **2018**, 10, 81-102	3.4	6
217	Terrain classification with Polarimetric SAR based on Deep Sparse Filtering Network **2016**,		6
216	Unsupervised polarimetric synthetic aperture radar image classification based on sketch map and adaptive Markov random field. *Journal of Applied Remote Sensing*, **2016**, 10, 025008	1.4	6
215	Quadratic interpolation based orthogonal learning particle swarm optimization algorithm. *Natural Computing*, **2014**, 13, 17-37	1.3	6
214	Reference direction based immune clone algorithm for many-objective optimization. *Frontiers of Computer Science*, **2014**, 8, 642-655	2.2	6
213	Change detection in SAR images based on the salient map guidance and an accelerated genetic algorithm **2017**,		6
212	Quantum-inspired evolutionary multicast algorithm **2009**,		6
211	An automatic bridge detection technique for high resolution SAR images **2009**,		6
210	Meta-hashing for Remote Sensing Image Retrieval. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-1	8.1	6
209	A Spatial-Channel Collaborative Attention Network for Enhancement of Multiresolution Classification. *Remote Sensing*, **2021**, 13, 106	5	6
208	Hyperspectral Imagery Classification Based on Compressed Convolutional Neural Network. *IEEE Geoscience and Remote Sensing Letters*, **2020**, 17, 1583-1587	4.1	6
207	Discriminative Sketch Topic Model With Structural Constraint for SAR Image Classification. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2020**, 13, 5730-5745	4.7	6
206	Better and Faster: Exponential Loss for Image Patch Matching **2019**,		6
205	Weak Moving Object Detection In Optical Remote Sensing Video With Motion-Drive Fusion Network **2019**,		6
204	Sar Image Change Detection Based on Mean Shift Pre-Classification and Fuzzy C-Means **2019**,		6

203	Hyper-Parameter Optimization Using MARS Surrogate for Machine-Learning Algorithms. *IEEE Transactions on Emerging Topics in Computational Intelligence*, **2020**, 4, 287-297	4.1	6
202	Sparse Subspace Clustering-Based Feature Extraction for PolSAR Imagery Classification. *Remote Sensing*, **2018**, 10, 391	5	6
201	Remote Sensing Object Tracking With Deep Reinforcement Learning Under Occlusion. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-13	8.1	6
200	Max-Index Based Local Self-Similarity Descriptor for Robust Multi-Modal Image Registration. *IEEE Geoscience and Remote Sensing Letters*, **2022**, 19, 1-5	4.1	6
199	Adversarial Reconstruction-Classification Networks for PolSAR Image Classification. *Remote Sensing*, **2019**, 11, 415	5	5
198	Robust routing and channel allocation in multi-hop cognitive radio networks. *Wireless Networks*, **2015**, 21, 127-137	2.5	5
197	Application of Data Driven Optimization for Change Detection in Synthetic Aperture Radar Images. *IEEE Access*, **2020**, 8, 11426-11436	3.5	5
196	Image super-resolution based on the pairwise dictionary selected learning and improved bilateral regularisation. *IET Image Processing*, **2016**, 10, 101-112	1.7	5
195	SAR Image Despeckling Using Scale Mixtures of Gaussians in the Nonsubsampled Contourlet Domain. *Chinese Journal of Electronics*, **2015**, 24, 205-211	0.9	5
194	Despeckling SAR images based on a new probabilistic model in nonsubsampled contourlet transform domain. *Signal, Image and Video Processing*, **2014**, 8, 1459-1474	1.6	5
193	Video denoising via spatially adaptive coefficient shrinkage and threshold adjustment in Surfacelet transform domain. *Signal, Image and Video Processing*, **2014**, 8, 901-912	1.6	5
192	A hybrid multiobjective immune algorithm with region preference for decision makers **2010**,		5
191	Semi-supervised Tissue Segmentation of 3D Brain MR Images **2010**,		5
190	Bayesian nonlocal means filter for SAR image despeckling **2009**,		5
189	A new constrained spectral clustering for SAR image segmentation **2009**,		5
188	Weighted Wishart distance learning for PolSAR image classification. *International Journal of Remote Sensing*, **2017**, 38, 5232-5250	3.1	5
187	Multi-Feature Weighted Sparse Graph for SAR Image Analysis. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 881-891	8.1	5
186	A Novel Semicoupled Projective Dictionary Pair Learning Method for PolSAR Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 2407-2418	8.1	5

185	A Multi-Scale Spatial Attention Region Proposal Network for High-Resolution Optical Remote Sensing Imagery. *Remote Sensing*, **2021**, 13, 3362	5	5
184	A particle swarm optimization approach for handling network social balance problem **2015**,		4
183	Double feature selection algorithm based on low-rank sparse non-negative matrix factorization. *International Journal of Machine Learning and Cybernetics*, **2020**, 11, 1891-1908	3.8	4
182	Deep Self-Paced Residual Network for Multispectral Images Classification Based on Feature-Level Fusion. *IEEE Geoscience and Remote Sensing Letters*, **2018**, 15, 1740-1744	4.1	4
181	Nonlocal-Similarity-Based Sparse Coding for Hyperspectral Imagery Classification. *IEEE Geoscience and Remote Sensing Letters*, **2017**, 14, 1474-1478	4.1	4
180	Adaptive multimeme algorithm for flexible job shop scheduling problem. *Natural Computing*, **2017**, 16, 677-698	1.3	4
179	Distributed SAR image change detection based on Spark **2015**,		4
178	Fast ship detection of synthetic aperture radar images via multi-view features and clustering **2014**,		4
177	Low-rank representation based action recognition **2014**,		4
176	An improved multi-agent genetic algorithm for numerical optimization. *Natural Computing*, **2011**, 10, 487-506	1.3	4
175	Unsupervised polarimetric SAR image classification using fisher linear discriminant **2009**,		4
174	Spatial Pooling Graph Convolutional Network for Hyperspectral Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 1-1	8.1	4
173	A Lightweight Convolutional Neural Network for Bitemporal Image Change Detection **2020**,		4
172	SigNet: A Novel Deep Learning Framework for Radio Signal Classification. *IEEE Transactions on Cognitive Communications and Networking*, **2021**, 1-1	6.6	4
171	Accelerated Incremental Gradient Descent using Momentum Acceleration with Scaling Factor **2019**,		4
170	Unsupervised EA-Based Fuzzy Clustering for Image Segmentation. *IEEE Access*, **2020**, 8, 8627-8647	3.5	4
169	Cost-Sensitive Latent Space Learning for Imbalanced PolSAR Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 4802-4817	8.1	4
168	Joint Prior Learning for Visual Sensor Network Noisy Image Super-Resolution. *Sensors*, **2016**, 16, 288	3.8	4

167	Spatially constrained Bag-of-Visual-Words for hyperspectral image classification **2016**,		4
166	Weight-Variable Scattering Convolution Networks and Its Application in Electromagnetic Signal Classification. *IEEE Access*, **2019**, 7, 175889-175896	3.5	4
165	A Novel Adaptive Hybrid Fusion Network for Multiresolution Remote Sensing Images Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-17	8.1	4
164	SAR Image Segmentation Based on Constrained Smoothing and Hierarchical Label Correction. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-16	8.1	4
163	Recurrent Attention and Semantic Gate for Remote Sensing Image Captioning. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-16	8.1	4
162	Graph Convolutional Neural Networks with Geometric and Discrimination information. *Engineering Applications of Artificial Intelligence*, **2021**, 104, 104364	7.2	4
161	Ridgelet-Nets With Speckle Reduction Regularization for SAR Image Scene Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-17	8.1	4
160	AR Det: An Accurate and Real-Time Rotational One-Stage Ship Detector in Remote Sensing Images. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-14	8.1	4
159	Complex Gaussian Bayesian Online Dictionary Learning for SAR Target Recognition with Limited Labeled Samples. *IEEE Access*, **2019**, 7, 120626-120637	3.5	3
158	Fast Sparse Deep Neural Networks: Theory and Performance Analysis. *IEEE Access*, **2019**, 7, 74040-74055	3.5	3
157	Color Correction and Depth-Based Hierarchical Hole Filling in Free Viewpoint Generation. *IEEE Transactions on Broadcasting*, **2019**, 65, 294-307	4.7	3
156	An adjustable fuzzy classification algorithm using an improved multi-objective genetic strategy based on decomposition for imbalance dataset. *Knowledge and Information Systems*, **2019**, 61, 1583-1605	2.4	3
155	Synergy of two mutations based immune multi-objective automatic fuzzy clustering algorithm. *Knowledge and Information Systems*, **2015**, 45, 133-157	2.4	3
154	A new angle-based preference selection mechanism for solving many-objective optimization problems. *Soft Computing*, **2018**, 22, 6311-6327	3.5	3
153	Memetic algorithm based on extension step and statistical filtering for large-scale capacitated arc routing problems. *Natural Computing*, **2018**, 17, 375-391	1.3	3
152	A semi-supervised spatially aware wrapper method for hyperspectral band selection. *International Journal of Remote Sensing*, **2018**, 39, 4020-4039	3.1	3
151	Sparse Deep Tensor Extreme Learning Machine for Pattern Classification. *IEEE Access*, **2019**, 7, 119181-119191	3.5	3
150	Multi-objective evolutionary for synthetic aperture radar image segmentation with non-local means denoising. *Natural Computing*, **2014**, 13, 39-53	1.3	3

149	Pansharpening by exploiting sharpness of the spatial structure. *International Journal of Remote Sensing*, **2014**, 35, 6662-6673	3.1	3
148	Application of a homogenous patch mean kernel with within-class collaborative representation for hyperspectral imagery classification. *Remote Sensing Letters*, **2017**, 8, 11-20	2.3	3
147	Multi-objective artificial immune algorithm for fuzzy clustering based on multiple kernels **2017**,		3
146	Change detection in synthetic aperture radar images based on log-mean operator and stacked auto-encoder **2017**,		3
145	Deployment optimization of near space airships based on MOEA/D with local search **2014**,		3
144	A multiobjective optimization method based on MOEA/D and fuzzy clustering for change detection in SAR images **2014**,		3
143	INVESTIGATION OF COMBINATIONAL CLUSTERING INDICES IN ARTIFICIAL IMMUNE MULTI-OBJECTIVE CLUSTERING. *Computational Intelligence*, **2014**, 30, 115-144	2.5	3
142	Immunodomaince based clonal selection clustering algorithm **2010**,		3
141	Spatial improved fuzzy c-means clustering for image segmentation **2011**,		3
140	Hybrid multiobjective estimation of distribution algorithm by local linear embedding and an immune inspired algorithm **2009**,		3
139	Memetic computation based on regulation between neural and immune systems: the framework and a case study. *Science China Information Sciences*, **2010**, 53, 1519-1527	3.4	3
138	An immune memory clonal algorithm for numerical and combinatorial optimization. *Frontiers of Computer Science*, **2010**, 4, 536-559		3
137	Self-Tuning Semi-Supervised Spectral Clustering **2008**,		3
136	Automatic Graph Learning Convolutional Networks for Hyperspectral Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 60, 1-16	8.1	3
135	Few-Shot Hyperspectral Image Classification Based on Adaptive Subspaces and Feature Transformation. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 1-1	8.1	3
134	Lightweight convolutional neural network for bitemporal SAR image change detection. *Journal of Applied Remote Sensing*, **2020**, 14, 1	1.4	3
133	Attention-Guided Siamese Fusion Network for Change Detection of Remote Sensing Images. *Remote Sensing*, **2021**, 13, 4597	5	3
132	Semisupervised Classification of PolSAR Image Incorporating Labels Semantic Priors. *IEEE Geoscience and Remote Sensing Letters*, **2020**, 17, 1737-1741	4.1	3

131	Quantum-Inspired Evolutionary Algorithm for Convolutional Neural Networks Architecture Search **2020**,		3
130	Analytical Study on a 700 V Triple RESURF LDMOS With a Variable High-K Dielectric Trench. *IEEE Transactions on Electron Devices*, **2021**, 68, 2872-2878	2.9	3
129	A Lightweight Keypoint-Based Oriented Object Detection of Remote Sensing Images. *Remote Sensing*, **2021**, 13, 2459	5	3
128	Multi-Scale Fused SAR Image Registration Based on Deep Forest. *Remote Sensing*, **2021**, 13, 2227	5	3
127	Learning task-driven polarimetric target decomposition: A new perspective **2016**,		3
126	Parallel implementation of the FLICM algorithm for SAR image change detection on intel MIC **2016**,		3
125	An intuitionistic fuzzy possibilistic C-means clustering based on genetic algorithm **2016**,		3
124	Adaptive unsupervised classification of polarimetric SAR images using the improved affinity propagation clustering algorithm. *International Journal of Remote Sensing*, **2016**, 37, 6023-6040	3.1	3
123	Fuzzy Signature-Based Discriminative Subspace Projection for Hyperspectral Data Classification. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2016**, 9, 4196-4202	4.7	3
122	Discrete polynary coding immune clonal selection-based joint subcarrier and power allocation in uplink cognitive OFDM network. *International Journal of Communication Systems*, **2016**, 29, 64-83	1.7	3
121	Stacked auto-encoder for classification of polarimetric SAR images based on scattering energy. *International Journal of Remote Sensing*, **2019**, 40, 5094-5120	3.1	3
120	Semi-Supervised Complex-Valued GAN for Polarimetric SAR Image Classification **2019**,		3
119	Unsupervised classification for polarimetric SAR images based on the improved CFSFDP algorithm. *International Journal of Remote Sensing*, **2019**, 40, 3154-3178	3.1	3
118	A dynamic local cluster ratio-based band selection algorithm for hyperspectral images. *Soft Computing*, **2019**, 23, 8281-8289	3.5	3
117	Foreground Refinement Network for Rotated Object Detection in Remote Sensing Images. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-13	8.1	3
116	Network Pruning for Remote Sensing Images Classification Based on Interpretable CNNs. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-15	8.1	3
115	MBLT: Learning Motion and Background for Vehicle Tracking in Satellite Videos. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-15	8.1	3
114	Few-shot electromagnetic signal classification: A data union augmentation method. *Chinese Journal of Aeronautics*, **2021**,	3.7	3

113	Multiobjective guided divide-and-conquer network for hyperspectral pansharpening. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 1-1	8.1	3
112	Lightweight Multilevel Feature Fusion Network for Hyperspectral Image Classification. *Remote Sensing*, **2022**, 14, 79	5	3
111	Self-Distillation Feature Learning Network for Optical and SAR Image Registration. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 1-1	8.1	3
110	Graph-based hybrid hyper-heuristic channel scheduling algorithm in multicell networks. *Transactions on Emerging Telecommunications Technologies*, **2017**, 28, e2923	1.9	2
109	PolSAR image compression based on online sparse K-SVD dictionary learning. *Multimedia Tools and Applications*, **2017**, 76, 24859-24870	2.5	2
108	Deep community detection based on memetic algorithm **2015**,		2
107	Parallel implementations of frame rate up-conversion algorithm using OpenCL on heterogeneous computing devices. *Multimedia Tools and Applications*, **2019**, 78, 9311-9334	2.5	2
106	Auto Encoder Feature Learning with Utilization of Local Spatial Information and Data Distribution for Classification of PolSAR Image. *Remote Sensing*, **2019**, 11, 1313	5	2
105	Selective Ensemble Based on Transformation of Classifiers Used SPCA. *International Journal of Pattern Recognition and Artificial Intelligence*, **2015**, 29, 1550005	1.1	2
104	A partition-based active contour model incorporating local information for image segmentation. *Scientific World Journal, The*, **2014**, 2014, 840305	2.2	2
103	Suboptimal Solutions to the Algebraic-Error Line Triangulation. *Journal of Mathematical Imaging and Vision*, **2014**, 49, 611-632	1.6	2
102	Optimizing detector distribution in V-detector negative selection using a constrained multiobjective immune algorithm **2010**,		2
101	Quantum-inspired immune clonal clustering algorithm based on watershed **2010**,		2
100	Feature Extraction Combining PCA and Immune Clonal Selection for Hyperspectral Remote Sensing Image Classification **2009**,		2
99	A contourlet-based interpolation restoration method for super-resolution of SAR image **2009**,		2
98	Road extraction in remote sensing images based on Nonsubsampled Contourlet Transform **2009**,		2
97	SAR image retrieval based on Gaussian Mixture Model classification **2009**,		2
96	Unsupervised image segmentation based on Nonsubsampled Contourlet hidden Markov trees model **2009**,		2

95	A change detection algorithm based on object feature for SAR image **2009**,		2
94	The despeckling of SAR image based on the curvelet transform **2009**,		2
93	Image compression with downsampling and overlapped transform at low bit rates **2009**,		2
92	Quantum-Inspired Immune Memory Algorithm for Self-Structuring Antenna Optimization **2008**,		2
91	Dynamic Graph-Level Neural Network for SAR Image Change Detection. *IEEE Geoscience and Remote Sensing Letters*, **2022**, 19, 1-5	4.1	2
90	MRTA: Multi-Resolution Training Algorithm for Multitemporal Semantic Change Detection **2021**,		2
89	DO-UNet, DO-LinkNet: UNet, D-LinkNet with DO-Conv for the Detection of Settlements without Electricity Challenge **2021**,		2
88	Multisource Data Fusion for the Detection of Settlements Without Electricity **2021**,		2
87	High-Resolution Remote Sensing Images Change Detection with Siamese Holistically-Guided FCN **2021**,		2
86	Remote Scene Image Scene Classification Based on Adaptive Segmentation and Dynamic Graph Convolution **2021**,		2
85	SAR Image Specle Reduction based on a Generative Adversarial Network **2020**,		2
84	Representative Learning via Span-Based Mutual Information for PolSAR Image Classification. *Remote Sensing*, **2021**, 13, 1609	5	2
83	Sparse Nonnegative Matrix Factorization for Hyperspectral Unmixing Based on Endmember Independence and Spatial Weighted Abundance. *Remote Sensing*, **2021**, 13, 2348	5	2
82	An improved artificial immune network algorithm for data clustering based on secondary competition selection **2016**,		2
81	signADAM++: Learning Confidences for Deep Neural Networks **2019**,		2
80	Accuracy and Long-Term Tracking via Overlap Maximization Integrated with Motion Continuity **2019**,		2
79	Object Detection and Trcacking Based on Convolutional Neural Networks for High-Resolution Optical Remote Sensing Video **2019**,		2
78	Remote Sensing Image Super-Resolution via Dual-Resolution Network Based on Connected Attention Mechanism. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-13	8.1	2

77	Polarimetric Multipath Convolutional Neural Network for PolSAR Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-18	8.1	2
76	A Hybrid Network With Structural Constraints for SAR Image Scene Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-17	8.1	2
75	Simulated annealing-based immunodominance algorithm for multi-objective optimization problems. *Knowledge and Information Systems*, **2018**, 55, 215-251	2.4	2
74	PolSAR Image Classification Based on DBN and Tensor Dimensionality Reduction **2018**,		2
73	Hyper-Laplacian Regularized Low-Rank Tensor Decomposition for Hyperspectral Anomaly Detection **2018**,		2
72	Complex Scene Classification of PoLSAR Imagery Based on a Self-Paced Learning Approach. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2018**, 11, 4818-4825	4.7	2
71	High-quality depth up-sampling based on multi-scale SLIC. *Electronics Letters*, **2018**, 54, 494-496	1.1	2
70	Structural-Correlated Self-Examples Based Superresolution of Single Remote Sensing Image. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2018**, 11, 3209-3223	4.7	2
69	MANet: Multi-scale Aware-relation Network for Semantic Segmentation in Aerial Scenes. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 1-1	8.1	2
68	Hyperspectral Image Super-Resolution Based on Tensor Spatial-Spectral Joint Correlation Regularization. *IEEE Access*, **2020**, 8, 63654-63665	3.5	1
67	SSCV-GANs: Semi-Supervised Complex-Valued GANs for PolSAR Image Classification. *IEEE Access*, **2020**, 8, 146560-146576	3.5	1
66	Deep Feature-Based Multitask Joint Sparse Representation for Hyperspectral Image Classification. *IEEE Geoscience and Remote Sensing Letters*, **2020**, 17, 1578-1582	4.1	1
65	Hierarchical Sparse Bayesian Learning with Beta Process Priors for Hyperspectral Imagery Restoration. *IEICE Transactions on Information and Systems*, **2017**, E100.D, 350-358	0.6	1
64	SAR image change detection based on Spark-FLICM algorithm **2016**,		1
63	An Affinity-Based Algorithm in Nonsubsampled Contourlet Transform Domain: Application to Synthetic Aperture Radar Image Denoising. *Journal of Signal Processing Systems*, **2016**, 83, 373-388	1.4	1
62	Fast graph-based SAR image segmentation via simple superpixels **2017**,		1
61	Quantum inspired high dimensional hyperparameter optimization of machine learning model **2017**,		1
60	Inter-frame constrained coding based on superpixel for tracking. *Visual Computer*, **2015**, 31, 701-715	2.3	1

59	A multi-swarm particle swarm optimization with orthogonal learning for locating and tracking multiple optimization in dynamic environments **2014**,		1
58	A memetic algorithm using local structural information for detecting community structure in complex networks **2014**,		1
57	An improved three-component model-based decomposition for polarimetric SAR data **2014**,		1
56	Image segmentation via mean shift and loopy belief propagation. *Wuhan University Journal of Natural Sciences*, **2010**, 15, 43-50	0.4	1
55	A Non-Local Means Filter with Translating Invariant Shearlet Feature Descriptors **2010**,		1
54	Hybrid Immune Algorithm with intelligent recombination **2009**,		1
53	Change detection in SAR image based on multisacle product and PCA **2009**,		1
52	Medical image segmentation based on immune clonal optimization **2009**,		1
51	3D medical image compression based on multiplierless low-complexity RKLT and shape-adaptive wavelet transform **2009**,		1
50	Clustering via dimensional reduction method for the projection pursuit based on the ICSA. *Journal of Electronics*, **2010**, 27, 474-479		1
49	Improved Clonal Selection Algorithm based on Lamarckian Local Search Technique **2008**,		1
48	Support vector novelty detection with dot product kernels for non-spherical data **2008**,		1
47	Improved Clonal Selection Algorithm based on Baldwinian Learning **2008**,		1
46	A Neural Network Based on Consistency Learning and Adversarial Learning for Semi-supervised Synthetic Aperture Radar Ship Detection. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 1-1	8.1	1
45	Supervised Adaptive-RPN Network for Object Detection in Remote Sensing Images **2020**,		1
44	Remote Sensing Scene Classification Based on Global and Local Consistent Network **2020**,		1
43	Structural feature learning-based unsupervised semantic segmentation of synthetic aperture radar image. *Journal of Applied Remote Sensing*, **2019**, 13, 1	1.4	1
42	Object Detection in Large-Scale Remote-Sensing Images Based on Time-Frequency Analysis and Feature Optimization. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-16	8.1	1

#			
41	RadioImage Transformer: Bridging Radio Modulation Classification and ImageNet Classification. *Electronics (Switzerland)*, **2020**, 9, 1646	2.6	1
40	A Two-Stage Evolutionary Fuzzy Clustering Framework for Noisy Image Segmentation. *IEEE Access*, **2020**, 8, 186663-186678	3.5	1
39	Hyperspectral Image Classification via Slice Sparse Coding Tensor Based Classifier With Compressive Dimensionality Reduction. *IEEE Access*, **2020**, 8, 145207-145215	3.5	1
38	A Unified Scalable Equivalent Formulation for Schatten Quasi-Norms. *Mathematics*, **2020**, 8, 1325	2.3	1
37	Evolutionary algorithm using converted problems **2016**,		1
36	A Novel Spatial and Temporal Context-Aware Approach for Drone-Based Video Object Detection **2019**,		1
35	Semi-Coupled Convolutional Sparse Learning for Image Super-Resolution. *Remote Sensing*, **2019**, 11, 2593	5	1
34	Polsar Image Classification Based on Polarimetric Scattering Coding and Sparse Support Matrix Machine **2019**,		1
33	A novel location-based DNA matching algorithm for hyperspectral image classification. *Memetic Computing*, **2019**, 11, 175-191	3.4	1
32	Optimization based on nonlinear transformation in decision space. *Soft Computing*, **2019**, 23, 3571-3590	3.5	1
31	A Decomposition-Based Evolutionary Algorithm with Correlative Selection Mechanism for Many-Objective Optimization. *Evolutionary Computation*, **2021**, 29, 269-304	4.3	1
30	Nonlinear Projective Dictionary Pair Learning for PolSAR Image Classification. *IEEE Access*, **2021**, 9, 70650-70661	3.5	1
29	Classification of PolSAR Images Based on SVM with Self-Paced Learning Optimization **2018**,		1
28	Spatial Fuzzy Clustering and Deep Auto-encoder for Unsupervised Change Detection in Synthetic Aperture Radar Images **2018**,		1
27	Hyperspectral Image Classification Based on Superpixel Feature Subdivision and Adaptive Graph Structure. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 60, 1-15	8.1	1
26	Dual Modality Collaborative Learning for Cross-Source Remote Sensing Retrieval. *Remote Sensing*, **2022**, 14, 1319	5	1
25	Sparse Feature Clustering Network for Unsupervised SAR Image Change Detection. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 1-1	8.1	1
24	Class-Level Prototype Guided Multiscale Feature Learning for Remote Sensing Scene Classification With Limited Labels. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 60, 1-15	8.1	1

23	Consistency-Constrained Nonnegative Coding for Tracking. *IEEE Transactions on Circuits and Systems for Video Technology*, **2017**, 27, 880-891	6.4	0
22	A Lightweight Top-Down Multi-Person Pose Estimation Method Based on Symmetric Transformation and Global Matching. *IEEE Access*, **2022**, 1-1	3.5	0
21	SAR Image Registration Based on ROEWA-Blocks and Multiscale Circle Descriptor. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2021**, 1-1	4.7	0
20	Multi-Resolution Prediction Model Based on Community Relevance for Missing Links Prediction. *IEEE Access*, **2020**, 8, 113981-113993	3.5	0
19	A Self-Adaptive Response Strategy for Dynamic Multiobjective Evolutionary Optimization Based on Objective Space Decomposition. *Evolutionary Computation*, **2021**, 29, 491-519	4.3	0
18	New Optimization Method Based on Neural Networks for Designing Radar Waveforms With Good Correlation Properties. *IEEE Access*, **2021**, 9, 91314-91323	3.5	0
17	Background Representation Learning With Structural Constraint for Hyperspectral Anomaly Detection. *IEEE Geoscience and Remote Sensing Letters*, **2021**, 1-5	4.1	0
16	Electromagnetic Signal Classification Based on Class Exemplar Selection and Multi-Objective Linear Programming. *Remote Sensing*, **2022**, 14, 1177	5	0
15	SMD-Net: Siamese Multi-Scale Difference-Enhancement Network for Change Detection in Remote Sensing. *Remote Sensing*, **2022**, 14, 1580	5	0
14	Very Low-Resolution Moving Vehicle Detection in Satellite Videos. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 1-1	8.1	0
13	Korean-English bilingual videotext recognition for news headline generation based on a split-merge strategy. *Journal of Real-Time Image Processing*, **2016**, 11, 167-177	1.9	
12	Structure Label Matrix Completion for PolSAR Image Classification. *Remote Sensing*, **2020**, 12, 459	5	
11	Regularized Sparse Band Selection via Learned Pairwise Agreement. *IEEE Access*, **2020**, 8, 40096-40105	3.5	
10	Truncated Graph-Regularized Low Rank Representation for Link Prediction. *IEEE Access*, **2019**, 7, 48224-48235	3.5	
9	Tracking with spatial constrained coding. *IET Computer Vision*, **2015**, 9, 63-74	1.4	
8	Tracking with scattering descriptor. *IET Computer Vision*, **2014**, 8, 195-206	1.4	
7	Reconstruction Error-based Decomposition Feature Selection for PolSAR Image. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-1	8.1	
6	Adaptive Fuzzy Learning Superpixels Representation for PolSAR Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-1	8.1	

List of Publications

5	A commentary and correction on the article "Pansharpening by exploiting sharpness of the spatial structure" *International Journal of Remote Sensing*, **2016**, 37, 1315-1318	3.1
4	N-Cluster Loss and Hard Sample Generative Deep Metric Learning for PolSAR Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-16	8.1
3	Nonoverlapped Sampling for Hyperspectral Imagery: Performance Evaluation and a Cotraining-Based Classification Strategy. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-14	8.1
2	A Collaborative Correlation-Matching Network for Multimodality Remote Sensing Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 60, 1-18	8.1
1	Dual-Graph Global and Local Concept Factorization for Data Clustering. *IEEE Transactions on Neural Networks and Learning Systems*, **2022**, 1-14	10.3