Naif Alajlan

List of Publications by Year
in descending order

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144 papers	5,619 citations	117453 34 h-index	91712 69 g-index
144 all docs	144 docs citations	144 times ranked	5173 citing authors

#	Article	IF	Citations
1	Continual Learning Approach for Remote Sensing Scene Classification. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	8
2	Stochastic deep collocation method based on neural architecture search and transfer learning for heterogeneous porous media. Engineering With Computers, 2022, 38, 5173-5198.	3.5	45
3	COVID-19 Detection in CT/X-ray Imagery Using Vision Transformers. Journal of Personalized Medicine, 2022, 12, 310.	1.1	25
4	Energy-based learning for open-set classification in remote sensing imagery. International Journal of Remote Sensing, 2022, 43, 6027-6037.	1.3	2
5	Analysis of three-dimensional potential problems in non-homogeneous media with physics-informed deep collocation method using material transfer learning and sensitivity analysis. Engineering With Computers, 2022, 38, 5423-5444.	3.5	31
6	Adversarial Learning for Knowledge Adaptation From Multiple Remote Sensing Sources. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1451-1455.	1.4	8
7	Deep Learning Approach for COVID-19 Detection in Computed Tomography Images. Computers, Materials and Continua, 2021, 67, 2093-2110.	1.5	9
8	Transformers and Generative Adversarial Networks for Liveness Detection in Multitarget Fingerprint Sensors. Sensors, 2021, 21, 699.	2.1	10
9	Vision Transformers for Remote Sensing Image Classification. Remote Sensing, 2021, 13, 516.	1.8	250
10	Theoretical Prediction of P-Triphenylene-Graphdiyne as an Excellent Anode Material for Li, Na, K, Mg, and Ca Batteries. Applied Sciences (Switzerland), 2021, 11, 2308.	1.3	7
11	UAV Image Multi-Labeling with Data-Efficient Transformers. Applied Sciences (Switzerland), 2021, 11, 3974.	1.3	13
12	Deep autoencoder based energy method for the bending, vibration, and buckling analysis of Kirchhoff plates with transfer learning. European Journal of Mechanics, A/Solids, 2021, 87, 104225.	2.1	188
13	Using Quantile Regression to Analyze the Relationship between Socioeconomic Indicators and Carbon Dioxide Emissions in G20 Countries. Sustainability, 2021, 13, 7011.	1.6	19
14	Unified Generative Adversarial Networks for Multidomain Fingerprint Presentation Attack Detection. Entropy, 2021, 23, 1089.	1.1	5
15	SSDAN: Multi-Source Semi-Supervised Domain Adaptation Network for Remote Sensing Scene Classification. Remote Sensing, 2021, 13, 3861.	1.8	19
16	LwF-ECG: Learning-without-forgetting approach for electrocardiogram heartbeat classification based on memory with task selector. Computers in Biology and Medicine, 2021, 137, 104807.	3.9	10
17	Parametric deep energy approach for elasticity accounting for strain gradient effects. Computer Methods in Applied Mechanics and Engineering, 2021, 386, 114096.	3.4	95
18	Classification of Remote Sensing Images Using EfficientNet-B3 CNN Model With Attention. IEEE Access, 2021, 9, 14078-14094.	2.6	144

#	Article	IF	Citations
19	Structural shape optimization using BÃ©zier triangles and a CAD-compatible boundary representation. Engineering With Computers, 2020, 36, 1657-1672.	3.5	3
20	A Computational Framework for Design and Optimization of Flexoelectric Materials. International Journal of Computational Methods, 2020, 17, 1850097.	0.8	22
21	Pointwise dual weighted residual based goal-oriented a posteriori error estimation and adaptive mesh refinement in 2D/3D thermo-mechanical multifield problems. Computer Methods in Applied Mechanics and Engineering, 2020, 359, 112666.	3.4	8
22	Assisting the Visually Impaired in Multi-object Scene Description Using OWA-Based Fusion of CNN Models. Arabian Journal for Science and Engineering, 2020, 45, 10511-10527.	1.7	6
23	Real-Time Mobile-Based Electrocardiogram System for Remote Monitoring of Patients with Cardiac Arrhythmias. International Journal of Pattern Recognition and Artificial Intelligence, 2020, 34, 2058013.	0.7	9
24	Multi-Label Classification Of Remote Sensing Imagery With Deep Neural Networks. , 2020, , .		1
25	Computational Modeling of Flexoelectricityâ€”A Review. Energies, 2020, 13, 1326.	1.6	40
26	Two-Stage Mask-RCNN Approach for Detecting and Segmenting the Optic Nerve Head, Optic Disc, and Optic Cup in Fundus Images. Applied Sciences (Switzerland), 2020, 10, 3833.	1.3	38
27	Deep Open-Set Domain Adaptation for Cross-Scene Classification based on Adversarial Learning and Pareto Ranking. Remote Sensing, 2020, 12, 1716.	1.8	26
28	Efficient Deep Learning for Gradient-Enhanced Stress Dependent Damage Model. Applied Sciences (Switzerland), 2020, 10, 2556.	1.3	5
29	Deep Attention Neural Network for Multi-Label Classification in Unmanned Aerial Vehicle Imagery. IEEE Access, 2019, 7, 119873-119880.	2.6	22
30	Importanceâ€based multicriteria decision making with interval valued criteria satisfactions. International Journal of Intelligent Systems, 2019, 34, 3336-3344.	3.3	6
31	A novel deep learning based method for the computational material design of flexoelectric nanostructures with topology optimization. Finite Elements in Analysis and Design, 2019, 165, 21-30.	1.7	53
32	Mechanical properties of graphene-like BC3; a molecular dynamics study. Computational Materials Science, 2019, 168, 1-10.	1.4	41
33	Super-stretchability in two-dimensional RuCl3 and RuBr3 confirmed by first-principles simulations. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 113, 79-85.	1.3	9
34	Uncertain database retrieval with measure-based belief function attribute values. Information Sciences, 2019, 501, 761-770.	4.0	26
35	Simple Yet Effective Fine-Tuning of Deep CNNs Using an Auxiliary Classification Loss for Remote Sensing Scene Classification. Remote Sensing, 2019, 11, 2908.	1.8	69
36	Helping the Visually Impaired See via Image Multi-labeling Based on SqueezeNet CNN. Applied Sciences (Switzerland), 2019, 9, 4656.	1.3	23

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37	Dense Convolutional Networks With Focal Loss and Image Generation for Electrocardiogram Classification. IEEE Access, 2019, 7, 182225-182237.	2.6	24
38	Scene Description for Visually Impaired People with Multi-Label Convolutional SVM Networks. Applied Sciences (Switzerland), 2019, 9, 5062.	1.3	10
39	An isogeometric analysis to identify the full flexoelectric complex material properties based on electrical impedance curve. Computers and Structures, 2019, 214, 1-14.	2.4	26
40	Computational Machine Learning Representation for the Flexoelectricity Effect in Truncated Pyramid Structures. Computers, Materials and Continua, 2019, 59, 79-87.	1.5	23
41	Artificial Neural Network Methods for the Solution of Second Order Boundary Value Problems. Computers, Materials and Continua, 2019, 59, 345-359.	1.5	437
42	Mechanical responses of pristine and defective C3N nanosheets studied by molecular dynamics simulations. Computational Materials Science, 2018, 147, 316-321.	1.4	68
43	Reconstructing Cloud-Contaminated Multispectral Images With Contextualized Autoencoder Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2270-2282.	2.7	29
44	Multi-criteria formulations with uncertain satisfactions. Engineering Applications of Artificial Intelligence, 2018, 69, 104-111.	4.3	8
45	Nanopores creation in boron and nitrogen doped polycrystalline graphene: A molecular dynamics study. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 99, 24-36.	1.3	12
46	Sensitivity and uncertainty analysis for flexoelectric nanostructures. Computer Methods in Applied Mechanics and Engineering, 2018, 337, 95-109.	3.4	159
47	Automatic Premature Ventricular Contractions Detection for Multi-Lead Electrocardiogram Signal. , 2018, , .		8
48	Generative Adversarial Networks for Cross-Scene Classification in Remote Sensing Images. , 2018, , .		5
49	Multi-Scale Convolutional Neural Network for Remote Sensing Scene Classification. , 2018, , .		17
50	Siamese-GAN: Learning Invariant Representations for Aerial Vehicle Image Categorization. Remote Sensing, 2018, 10, 351.	1.8	50
51	Aspects of generalized orthopair fuzzy sets. International Journal of Intelligent Systems, 2018, 33, 2154-2174.	3.3	85
52	Computational modeling of graphene nanopore for using in DNA sequencing devices. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 103, 403-416.	1.3	8
53	Elastic deformation behavior of freestanding MoS 2 films using a continuum approach. Solid State Communications, 2018, 280, 24-31.	0.9	3
54	Biometric template extraction from a heartbeat signal captured from fingers. Multimedia Tools and Applications, 2017, 76, 12709-12733.	2.6	38

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55	Fast indoor scene description for blind people with multiresolution random projections. Journal of Visual Communication and Image Representation, 2017, 44, 95-105.	1.7	13
56	Selection of Heart-Biometric Templates for Fusion. IEEE Access, 2017, 5, 1753-1761.	2.6	15
57	Approximate reasoning with generalized orthopair fuzzy sets. Information Fusion, 2017, 38, 65-73.	11.7	156
58	Domain Adaptation Network for Cross-Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4441-4456.	2.7	127
59	Atrial fibrillation detection with multiparametric RR interval feature and machine learning technique. , 2017, , .		11
60	Maxitive Belief Structures and Imprecise Possibility Distributions. IEEE Transactions on Fuzzy Systems, 2017, 25, 768-774.	6.5	32
61	Deep Learning Approach for Car Detection in UAV Imagery. Remote Sensing, 2017, 9, 312.	1.8	219
62	Multiple Object Scene Description for the Visually Impaired Using Pre-trained Convolutional Neural Networks. Lecture Notes in Computer Science, 2016, , 290-295.	1.0	1
63	Rhythm-based heartbeat duration normalization for atrial fibrillation detection. Computers in Biology and Medicine, 2016, 72, 160-169.	3.9	32
64	Sugeno Integral with Possibilistic Inputs with Application to Multi-Criteria Decision Making. International Journal of Intelligent Systems, 2016, 31, 813-826.	3.3	6
65	Using convolutional features and a sparse autoencoder for land-use scene classification. International Journal of Remote Sensing, 2016, 37, 2149-2167.	1.3	141
66	On the measure based formulation of multi-criteria decision functions. Information Sciences, 2016, 370-371, 256-269.	4.0	7
67	Three-Layer Convex Network for Domain Adaptation in Multitemporal VHR Images. IEEE Geoscience and Remote Sensing Letters, 2016, , 1-5.	1.4	8
68	Evaluating Belief Structure Satisfaction to Uncertain Target Values. IEEE Transactions on Cybernetics, 2016, 46, 869-877.	6.2	20
69	Deep learning approach for active classification of electrocardiogram signals. Information Sciences, 2016, 345, 340-354.	4.0	467
70	A Deterministic Approach to Detect Median Filtering in 1D Data. IEEE Transactions on Information Forensics and Security, 2016, 11, 1425-1437.	4.5	24
71	Some issues on the OWA aggregation with importance weighted arguments. Knowledge-Based Systems, 2016, 100, 89-96.	4.0	26
72	Exploiting visual saliency for increasing diversity of image retrieval results. Multimedia Tools and Applications, 2016, 75, 5581-5602.	2.6	13

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73	Fuzzy Measures in Multi-Criteria Decision Making. Procedia Computer Science, 2015, 62, 107-115.	1.2	7
74	On a Role for Copula's in Jeffrey's Rule with An Application to Decision Making. International Journal of Intelligent Systems, 2015, 30, 1117-1132.	3.3	4
75	A hierarchical learning paradigm for semi-supervised classification of remote sensing images. , 2015, , .		5
76	A deep learning approach for unsupervised domain adaptation in multitemporal remote sensing images. , 2015, , .		5
77	Model-based Alignment of Heartbeat Morphology for Enhancing Human Recognition Capability. Computer Journal, 2015, 58, 2622-2635.	1.5	13
78	Dempsterâ€“Shafer belief structures for decision making under uncertainty. Knowledge-Based Systems, 2015, 80, 58-66.	4.0	49
79	A Compressive Sensing Approach to Describe Indoor Scenes for Blind People. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 1246-1257.	5.6	34
80	A fast object detector based on high-order gradients and Gaussian process regression for UAV images. International Journal of Remote Sensing, 2015, 36, 2713-2733.	1.3	28
81	An intelligent interactive approach to group aggregation of subjective probabilities. Knowledge-Based Systems, 2015, 83, 170-175.	4.0	16
82	Classification of AAMI heartbeat classes with an interactive ELM ensemble learning approach. Biomedical Signal Processing and Control, 2015, 19, 56-67.	3.5	18
83	Land-Use Classification With Compressive Sensing Multifeature Fusion. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2155-2159.	1.4	71
84	Multiclass Coarse Analysis for UAV Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6394-6406.	2.7	26
85	Toward an assisted indoor scene perception for blind people with image multilabeling strategies. Expert Systems With Applications, 2015, 42, 2907-2918.	4.4	18
86	A dynamic weights OWA fusion for ensemble clustering. Signal, Image and Video Processing, 2015, 9, 727-734.	1.7	2
87	Fusion of Extreme Learning Machine and Graph-Based Optimization Methods for Active Classification of Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 527-531.	1.4	54
88	On the consistency of fuzzy measures in multi-criteria aggregation. Fuzzy Optimization and Decision Making, 2015, 14, 121-137.	3.4	6
89	Efficient Framework for Palm Tree Detection in UAV Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4692-4703.	2.3	87
90	Classification of VHR Images Based on SVM and Multiobjective Evolutionary Optimization. , 2014, , .		0

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91	Augmented-hilbert transform for detecting peaks of a finger-ECG signal. , 2014, , .		7
92	An automatic approach for palm tree counting in UAV images. , 2014, , .		18
93	Probability weighted means as surrogates for stochastic dominance in decision making. Knowledge-Based Systems, 2014, 66, 92-98.	4.0	22
94	Detection of premature ventricular contraction arrhythmias in electrocardiogram signals with kernel methods. Signal, Image and Video Processing, 2014, 8, 931-942.	1.7	43
95	On characterizing features of OWA aggregation operators. Fuzzy Optimization and Decision Making, 2014, 13, 1-32.	3.4	24
96	Multicriteria Decision-Making With Imprecise Importance Weights. IEEE Transactions on Fuzzy Systems, 2014, 22, 882-891.	6.5	21
97	Large-Scale Image Classification Using Active Learning. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 259-263.	1.4	32
98	Robust Estimation of Water Chlorophyll Concentrations With Gaussian Process Regression and IOWA Aggregation Operators. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3019-3028.	2.3	21
99	Clustering of Hyperspectral Images with an Ensemble Method Based on Fuzzy C-Means and Markov Random Fields. Arabian Journal for Science and Engineering, 2014, 39, 3747-3757.	1.1	10
100	Differential Evolution Extreme Learning Machine for the Classification of Hyperspectral Images. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1066-1070.	1.4	126
101	A note on mean absolute deviation. Information Sciences, 2014, 279, 632-641.	4.0	9
102	Probabilistically Weighted OWA Aggregation. IEEE Transactions on Fuzzy Systems, 2014, 22, 46-56.	6.5	30
103	A generalized framework for mean aggregation: Toward the modeling of cognitive aspects. Information Fusion, 2014, 17, 65-73.	11.7	31
104	Human-inspired Identification of High-level Concepts using OWA and Linguistic Quantifiers. International Journal of Computers, Communications and Control, 2014, 6, 473.	1.2	4
105	Optical Image Classification: A Ground-Truth Design Framework. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3580-3597.	2.7	13
106	Interactive Segmentation for Change Detection in Multispectral Remote-Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 298-302.	1.4	25
107	Premature Ventricular Contraction Arrhythmia Detection and Classification with Gaussian Process and S Transform. , 2013, , .		9
108	An efficient QRS detection method for ECG signal captured from fingers. , 2013, , .		12

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109	Swarm Optimization of Structuring Elements for VHR Image Classification. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1334-1338.	1.4	21
110	Using OWA Fusion Operators for the Classification of Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 602-614.	2.3	12
111	A morphology alignment method for resampled heartbeat signals. Biomedical Signal Processing and Control, 2013, 8, 315-324.	3.5	23
112	Fusion of fingerprint and heartbeat biometrics using fuzzy adaptive genetic algorithm. , 2013, , .		14
113	Decision Making with Ordinal Payoffs Under Dempster-Shafer Type Uncertainty. International Journal of Intelligent Systems, 2013, 28, 1039-1053.	3.3	35
114	Domain adaptation methods for ECG classification. , 2013, , .		29
115	A novel fusion approach based on induced ordered weighted averaging operators for chemometric data analysis. Journal of Chemometrics, 2013, 27, 447-456.	0.7	16
116	Ensemble classification of hyperspectral images based on ordered weighted averaging operators. , 2013, , .		3
117	Resampling of ECG signal for improved morphology alignment. Electronics Letters, 2012, 48, 427.	0.5	10
118	Multimodal imaging: modelling and segmentation with biomedical applications. IET Computer Vision, 2012, 6, 524-539.	1.3	3
119	Robust classification of hyperspectral images based on the combination of supervised and unsupervised learning paradigms. , 2012, , .		3
120	Interactive change detection techniques in multitemporal multispectral remote sensing images. , 2012, , .		0
121	A wavelet optimization approach for ECG signal classification. Biomedical Signal Processing and Control, 2012, 7, 342-349.	3.5	154
122	Fusion of supervised and unsupervised learning for improved classification of hyperspectral images. Information Sciences, 2012, 217, 39-55.	4.0	69
123	Improved Estimation of Water Chlorophyll Concentration With Semisupervised Gaussian Process Regression. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 2733-2743.	2.7	28
124	Measure based representation of uncertain information. Fuzzy Optimization and Decision Making, 2012, 11, 363-385.	3.4	15
125	Active Learning Methods for Biophysical Parameter Estimation. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 4071-4084.	2.7	32
126	Active learning for spectroscopic data regression. Journal of Chemometrics, 2012, 26, 374-383.	0.7	28

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127	HBS: A Novel Biometric Feature Based on Heartbeat Morphology. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 445-453.	3.6	44
128	Pose Invariant Approach for Face Recognition at Distance. Lecture Notes in Computer Science, 2012, , 15-28.	1.0	8
129	HopDSW: An approximate dynamic space warping algorithm for fast shape matching and retrieval. Journal of King Saud University - Computer and Information Sciences, 2011, 23, 7-14.	2.7	2
130	A cluster ensemble method for robust unsupervised classification of VHR remote sensing images. , 2011, , .		4
131	Real-time iris detection. Artificial Life and Robotics, 2010, 15, 296-301.	0.7	1
132	Fast shape matching and retrieval based on approximate dynamic space warping. Artificial Life and Robotics, 2010, 15, 309-315.	0.7	5
133	A Novel Recursive Algorithm For Detail-Preserving Impulse Noise Removal. Journal of King Saud University - Computer and Information Sciences, 2010, 22, 37-44.	2.7	2
134	Personalized Human Emotion Classification Using Genetic Algorithm. , 2009, , .		10
135	Solving Square Jigsaw Puzzles Using Dynamic Programming and the Hungarian Procedure. American Journal of Applied Sciences, 2009, 6, 1941-1947.	0.1	29
136	Geometry-Based Image Retrieval in Binary Image Databases. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1003-1013.	9.7	130
137	Shape retrieval using triangle-area representation and dynamic space warping. Pattern Recognition, 2007, 40, 1911-1920.	5.1	246
138	Retrieval of Hand-Sketched Envelopes in Logo Images. Lecture Notes in Computer Science, 2007, , 436-446.	1.0	2
139	Multi-object image retrieval based on shape and topology. Signal Processing: Image Communication, 2006, 21, 904-918.	1.8	31
140	MTAR: A ROBUST 2D SHAPE REPRESENTATION. International Journal of Image and Graphics, 2006, 06, 421-443.	1.2	7
141	Robust multiscale triangle-area representation for 2D shapes. , 2005, , .		9
142	Envelope Detection of Multi-object Shapes. Lecture Notes in Computer Science, 2005, , 399-406.	1.0	2
143	Detail preserving impulsive noise removal. Signal Processing: Image Communication, 2004, 19, 993-1003.	1.8	69
144	Robust Shape Retrieval Using Maximum Likelihood Theory. Lecture Notes in Computer Science, 2004, , 745-752.	1.0	0