

Naif Alajlan

List of Publications by Year in descending order

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144
papers

5,619
citations

117453

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h-index

91712

69
g-index

144
all docs

144
docs citations

144
times ranked

5173
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep learning approach for active classification of electrocardiogram signals. Information Sciences, 2016, 345, 340-354.	4.0	467
2	Artificial Neural Network Methods for the Solution of Second Order Boundary Value Problems. Computers, Materials and Continua, 2019, 59, 345-359.	1.5	437
3	Vision Transformers for Remote Sensing Image Classification. Remote Sensing, 2021, 13, 516.	1.8	250
4	Shape retrieval using triangle-area representation and dynamic space warping. Pattern Recognition, 2007, 40, 1911-1920.	5.1	246
5	Deep Learning Approach for Car Detection in UAV Imagery. Remote Sensing, 2017, 9, 312.	1.8	219
6	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
7	Sensitivity and uncertainty analysis for flexoelectric nanostructures. Computer Methods in Applied Mechanics and Engineering, 2018, 337, 95-109.	3.4	159
8	Approximate reasoning with generalized orthopair fuzzy sets. Information Fusion, 2017, 38, 65-73.	11.7	156
9	A wavelet optimization approach for ECG signal classification. Biomedical Signal Processing and Control, 2012, 7, 342-349.	3.5	154
10	Classification of Remote Sensing Images Using EfficientNet-B3 CNN Model With Attention. IEEE Access, 2021, 9, 14078-14094.	2.6	144
11	Using convolutional features and a sparse autoencoder for land-use scene classification. International Journal of Remote Sensing, 2016, 37, 2149-2167.	1.3	141
12	Geometry-Based Image Retrieval in Binary Image Databases. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1003-1013.	9.7	130
13	Domain Adaptation Network for Cross-Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4441-4456.	2.7	127
14	Differential Evolution Extreme Learning Machine for the Classification of Hyperspectral Images. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1066-1070.	1.4	126
15	Parametric deep energy approach for elasticity accounting for strain gradient effects. Computer Methods in Applied Mechanics and Engineering, 2021, 386, 114096.	3.4	95
16	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
17	Aspects of generalized orthopair fuzzy sets. International Journal of Intelligent Systems, 2018, 33, 2154-2174.	3.3	85
18	Land-Use Classification With Compressive Sensing Multifeature Fusion. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2155-2159.	1.4	71

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19	Detail preserving impulsive noise removal. <i>Signal Processing: Image Communication</i> , 2004, 19, 993-1003.	1.8	69
20	Fusion of supervised and unsupervised learning for improved classification of hyperspectral images. <i>Information Sciences</i> , 2012, 217, 39-55.	4.0	69
21	Simple Yet Effective Fine-Tuning of Deep CNNs Using an Auxiliary Classification Loss for Remote Sensing Scene Classification. <i>Remote Sensing</i> , 2019, 11, 2908.	1.8	69
22	Mechanical responses of pristine and defective C3N nanosheets studied by molecular dynamics simulations. <i>Computational Materials Science</i> , 2018, 147, 316-321.	1.4	68
23	Fusion of Extreme Learning Machine and Graph-Based Optimization Methods for Active Classification of Remote Sensing Images. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 527-531.	1.4	54
24	A novel deep learning based method for the computational material design of flexoelectric nanostructures with topology optimization. <i>Finite Elements in Analysis and Design</i> , 2019, 165, 21-30.	1.7	53
25	Siamese-GAN: Learning Invariant Representations for Aerial Vehicle Image Categorization. <i>Remote Sensing</i> , 2018, 10, 351.	1.8	50
26	Dempster-Shafer belief structures for decision making under uncertainty. <i>Knowledge-Based Systems</i> , 2015, 80, 58-66.	4.0	49
27	Stochastic deep collocation method based on neural architecture search and transfer learning for heterogeneous porous media. <i>Engineering With Computers</i> , 2022, 38, 5173-5198.	3.5	45
28	HBS: A Novel Biometric Feature Based on Heartbeat Morphology. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012, 16, 445-453.	3.6	44
29	Detection of premature ventricular contraction arrhythmias in electrocardiogram signals with kernel methods. <i>Signal, Image and Video Processing</i> , 2014, 8, 931-942.	1.7	43
30	Mechanical properties of graphene-like BC ₃ ; a molecular dynamics study. <i>Computational Materials Science</i> , 2019, 168, 1-10.	1.4	41
31	Computational Modeling of Flexoelectricity—A Review. <i>Energies</i> , 2020, 13, 1326.	1.6	40
32	Biometric template extraction from a heartbeat signal captured from fingers. <i>Multimedia Tools and Applications</i> , 2017, 76, 12709-12733.	2.6	38
33	Two-Stage Mask-RCNN Approach for Detecting and Segmenting the Optic Nerve Head, Optic Disc, and Optic Cup in Fundus Images. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3833.	1.3	38
34	Decision Making with Ordinal Payoffs Under Dempster-Shafer Type Uncertainty. <i>International Journal of Intelligent Systems</i> , 2013, 28, 1039-1053.	3.3	35
35	A Compressive Sensing Approach to Describe Indoor Scenes for Blind People. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2015, 25, 1246-1257.	5.6	34
36	Active Learning Methods for Biophysical Parameter Estimation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 4071-4084.	2.7	32

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37	Large-Scale Image Classification Using Active Learning. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 259-263.	1.4	32
38	Rhythm-based heartbeat duration normalization for atrial fibrillation detection. Computers in Biology and Medicine, 2016, 72, 160-169.	3.9	32
39	Maxitive Belief Structures and Imprecise Possibility Distributions. IEEE Transactions on Fuzzy Systems, 2017, 25, 768-774.	6.5	32
40	Multi-object image retrieval based on shape and topology. Signal Processing: Image Communication, 2006, 21, 904-918.	1.8	31
41	A generalized framework for mean aggregation: Toward the modeling of cognitive aspects. Information Fusion, 2014, 17, 65-73.	11.7	31
42	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
43	Probabilistically Weighted OWA Aggregation. IEEE Transactions on Fuzzy Systems, 2014, 22, 46-56.	6.5	30
44	Domain adaptation methods for ECG classification. , 2013, , .		29
45	Reconstructing Cloud-Contaminated Multispectral Images With Contextualized Autoencoder Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2270-2282.	2.7	29
46	Solving Square Jigsaw Puzzles Using Dynamic Programming and the Hungarian Procedure. American Journal of Applied Sciences, 2009, 6, 1941-1947.	0.1	29
47	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
48	Active learning for spectroscopic data regression. Journal of Chemometrics, 2012, 26, 374-383.	0.7	28
49	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
50	Multiclass Coarse Analysis for UAV Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6394-6406.	2.7	26
51	Some issues on the OWA aggregation with importance weighted arguments. Knowledge-Based Systems, 2016, 100, 89-96.	4.0	26
52	Uncertain database retrieval with measure-based belief function attribute values. Information Sciences, 2019, 501, 761-770.	4.0	26
53	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
54	Deep Open-Set Domain Adaptation for Cross-Scene Classification based on Adversarial Learning and Pareto Ranking. Remote Sensing, 2020, 12, 1716.	1.8	26

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55	Interactive Segmentation for Change Detection in Multispectral Remote-Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 298-302.	1.4	25
56	COVID-19 Detection in CT/X-ray Imagery Using Vision Transformers. Journal of Personalized Medicine, 2022, 12, 310.	1.1	25
57	On characterizing features of OWA aggregation operators. Fuzzy Optimization and Decision Making, 2014, 13, 1-32.	3.4	24
58	A Deterministic Approach to Detect Median Filtering in 1D Data. IEEE Transactions on Information Forensics and Security, 2016, 11, 1425-1437.	4.5	24
59	Dense Convolutional Networks With Focal Loss and Image Generation for Electrocardiogram Classification. IEEE Access, 2019, 7, 182225-182237.	2.6	24
60	A morphology alignment method for resampled heartbeat signals. Biomedical Signal Processing and Control, 2013, 8, 315-324.	3.5	23
61	Helping the Visually Impaired See via Image Multi-labeling Based on SqueezeNet CNN. Applied Sciences (Switzerland), 2019, 9, 4656.	1.3	23
62	Computational Machine Learning Representation for the Flexoelectricity Effect in Truncated Pyramid Structures. Computers, Materials and Continua, 2019, 59, 79-87.	1.5	23
63	Probability weighted means as surrogates for stochastic dominance in decision making. Knowledge-Based Systems, 2014, 66, 92-98.	4.0	22
64	Deep Attention Neural Network for Multi-Label Classification in Unmanned Aerial Vehicle Imagery. IEEE Access, 2019, 7, 119873-119880.	2.6	22
65	A Computational Framework for Design and Optimization of Flexoelectric Materials. International Journal of Computational Methods, 2020, 17, 1850097.	0.8	22
66	Swarm Optimization of Structuring Elements for VHR Image Classification. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1334-1338.	1.4	21
67	Multicriteria Decision-Making With Imprecise Importance Weights. IEEE Transactions on Fuzzy Systems, 2014, 22, 882-891.	6.5	21
68	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
69	Evaluating Belief Structure Satisfaction to Uncertain Target Values. IEEE Transactions on Cybernetics, 2016, 46, 869-877.	6.2	20
70	Using Quantile Regression to Analyze the Relationship between Socioeconomic Indicators and Carbon Dioxide Emissions in G20 Countries. Sustainability, 2021, 13, 7011.	1.6	19
71	SSDAN: Multi-Source Semi-Supervised Domain Adaptation Network for Remote Sensing Scene Classification. Remote Sensing, 2021, 13, 3861.	1.8	19
72	An automatic approach for palm tree counting in UAV images. , 2014, , .		18

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73	Classification of AAMI heartbeat classes with an interactive ELM ensemble learning approach. Biomedical Signal Processing and Control, 2015, 19, 56-67.	3.5	18
74	Toward an assisted indoor scene perception for blind people with image multilabeling strategies. Expert Systems With Applications, 2015, 42, 2907-2918.	4.4	18
75	Multi-Scale Convolutional Neural Network for Remote Sensing Scene Classification. , 2018, , .		17
76	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
77	An intelligent interactive approach to group aggregation of subjective probabilities. Knowledge-Based Systems, 2015, 83, 170-175.	4.0	16
78	Measure based representation of uncertain information. Fuzzy Optimization and Decision Making, 2012, 11, 363-385.	3.4	15
79	Selection of Heart-Biometric Templates for Fusion. IEEE Access, 2017, 5, 1753-1761.	2.6	15
80	Fusion of fingerprint and heartbeat biometrics using fuzzy adaptive genetic algorithm. , 2013, , .		14
81	Optical Image Classification: A Ground-Truth Design Framework. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3580-3597.	2.7	13
82	Model-based Alignment of Heartbeat Morphology for Enhancing Human Recognition Capability. Computer Journal, 2015, 58, 2622-2635.	1.5	13
83	Exploiting visual saliency for increasing diversity of image retrieval results. Multimedia Tools and Applications, 2016, 75, 5581-5602.	2.6	13
84	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
85	UAV Image Multi-Labeling with Data-Efficient Transformers. Applied Sciences (Switzerland), 2021, 11, 3974.	1.3	13
86	An efficient QRS detection method for ECG signal captured from fingers. , 2013, , .		12
87	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
88	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
89	Atrial fibrillation detection with multiparametric RR interval feature and machine learning technique. , 2017, , .		11
90	Personalized Human Emotion Classification Using Genetic Algorithm. , 2009, , .		10

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91	Resampling of ECG signal for improved morphology alignment. Electronics Letters, 2012, 48, 427.	0.5	10
92	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
93	Scene Description for Visually Impaired People with Multi-Label Convolutional SVM Networks. Applied Sciences (Switzerland), 2019, 9, 5062.	1.3	10
94	Transformers and Generative Adversarial Networks for Liveness Detection in Multitarget Fingerprint Sensors. Sensors, 2021, 21, 699.	2.1	10
95	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
96	Robust multiscale triangle-area representation for 2D shapes. , 2005, , .		9
97	Premature Ventricular Contraction Arrhythmia Detection and Classification with Gaussian Process and S Transform. , 2013, , .		9
98	A note on mean absolute deviation. Information Sciences, 2014, 279, 632-641.	4.0	9
99	Super-stretchability in two-dimensional RuCl ₃ and RuBr ₃ confirmed by first-principles simulations. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 113, 79-85.	1.3	9
100	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
101	Deep Learning Approach for COVID-19 Detection in Computed Tomography Images. Computers, Materials and Continua, 2021, 67, 2093-2110.	1.5	9
102	Three-Layer Convex Network for Domain Adaptation in Multitemporal VHR Images. IEEE Geoscience and Remote Sensing Letters, 2016, , 1-5.	1.4	8
103	Multi-criteria formulations with uncertain satisfactions. Engineering Applications of Artificial Intelligence, 2018, 69, 104-111.	4.3	8
104	Automatic Premature Ventricular Contractions Detection for Multi-Lead Electrocardiogram Signal. , 2018, , .		8
105	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
106	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
107	Continual Learning Approach for Remote Sensing Scene Classification. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	8
108	Adversarial Learning for Knowledge Adaptation From Multiple Remote Sensing Sources. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1451-1455.	1.4	8

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109	Pose Invariant Approach for Face Recognition at Distance. Lecture Notes in Computer Science, 2012, , 15-28.	1.0	8
110	MTAR: A ROBUST 2D SHAPE REPRESENTATION. International Journal of Image and Graphics, 2006, 06, 421-443.	1.2	7
111	Augmented-hilbert transform for detecting peaks of a finger-ECG signal. , 2014, , .		7
112	Fuzzy Measures in Multi-Criteria Decision Making. Procedia Computer Science, 2015, 62, 107-115.	1.2	7
113	On the measure based formulation of multi-criteria decision functions. Information Sciences, 2016, 370-371, 256-269.	4.0	7
114	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
115	On the consistency of fuzzy measures in multi-criteria aggregation. Fuzzy Optimization and Decision Making, 2015, 14, 121-137.	3.4	6
116	Sugeno Integral with Possibilistic Inputs with Application to Multi-Criteria Decision Making. International Journal of Intelligent Systems, 2016, 31, 813-826.	3.3	6
117	Importance-based multicriteria decision making with interval valued criteria satisfactions. International Journal of Intelligent Systems, 2019, 34, 3336-3344.	3.3	6
118	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
119	Fast shape matching and retrieval based on approximate dynamic space warping. Artificial Life and Robotics, 2010, 15, 309-315.	0.7	5
120	A hierarchical learning paradigm for semi-supervised classification of remote sensing images. , 2015, , .		5
121	A deep learning approach for unsupervised domain adaptation in multitemporal remote sensing images. , 2015, , .		5
122	Generative Adversarial Networks for Cross-Scene Classification in Remote Sensing Images. , 2018, , .		5
123	Efficient Deep Learning for Gradient-Enhanced Stress Dependent Damage Model. Applied Sciences (Switzerland), 2020, 10, 2556.	1.3	5
124	Unified Generative Adversarial Networks for Multidomain Fingerprint Presentation Attack Detection. Entropy, 2021, 23, 1089.	1.1	5
125	A cluster ensemble method for robust unsupervised classification of VHR remote sensing images. , 2011, , .		4
126	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

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127	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
128	Multimodal imaging: modelling and segmentation with biomedical applications. IET Computer Vision, 2012, 6, 524-539.	1.3	3
129	Robust classification of hyperspectral images based on the combination of supervised and unsupervised learning paradigms. , 2012, , .		3
130	Ensemble classification of hyperspectral images based on ordered weighted averaging operators. , 2013, , .		3
131	Elastic deformation behavior of freestanding MoS 2 films using a continuum approach. Solid State Communications, 2018, 280, 24-31.	0.9	3
132	Structural shape optimization using BÃ©zier triangles and a CAD-compatible boundary representation. Engineering With Computers, 2020, 36, 1657-1672.	3.5	3
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	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
135	A dynamic weights OWA fusion for ensemble clustering. Signal, Image and Video Processing, 2015, 9, 727-734.	1.7	2
136	Retrieval of Hand-Sketched Envelopes in Logo Images. Lecture Notes in Computer Science, 2007, , 436-446.	1.0	2
137	Envelope Detection of Multi-object Shapes. Lecture Notes in Computer Science, 2005, , 399-406.	1.0	2
138	Energy-based learning for open-set classification in remote sensing imagery. International Journal of Remote Sensing, 2022, 43, 6027-6037.	1.3	2
139	Real-time iris detection. Artificial Life and Robotics, 2010, 15, 296-301.	0.7	1
140	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
141	Multi-Label Classification Of Remote Sensing Imagery With Deep Neural Networks. , 2020, , .		1
142	Robust Shape Retrieval Using Maximum Likelihood Theory. Lecture Notes in Computer Science, 2004, , 745-752.	1.0	0
143	Interactive change detection techniques in multitemporal multispectral remote sensing images. , 2012, , .		0
144	Classification of VHR Images Based on SVM and Multiobjective Evolutionary Optimization. , 2014, , .		0