

# Wai Lok Woo

## List of Publications by Year in descending order

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318  
papers

5,064  
citations

94381

37  
h-index

161767

54  
g-index

320  
all docs

320  
docs citations

320  
times ranked

3900  
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic Defect Identification of Eddy Current Pulsed Thermography Using Single Channel Blind Source Separation. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 913-922.	2.4	127
2	A Novel Smart Energy Theft System (SETS) for IoT-Based Smart Home. IEEE Internet of Things Journal, 2019, 6, 5531-5539.	5.5	120
3	Impact Damage Detection and Identification Using Eddy Current Pulsed Thermography Through Integration of PCA and ICA. IEEE Sensors Journal, 2014, 14, 1655-1663.	2.4	119
4	Intelligent Control System for Microgrids Using Multiagent System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 1036-1045.	3.7	119
5	Single-Channel Source Separation Using EMD-Subband Variable Regularized Sparse Features. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 961-976.	3.8	109
6	Multidimensional Tensor-Based Inductive Thermography With Multiple Physical Fields for Offshore Wind Turbine Gear Inspection. IEEE Transactions on Industrial Electronics, 2016, 63, 6305-6315.	5.2	96
7	Temporal and spatial deep learning network for infrared thermal defect detection. NDT and E International, 2019, 108, 102164.	1.7	95
8	Implemented IoT-Based Self-Learning Home Management System (SHMS) for Singapore. IEEE Internet of Things Journal, 2018, 5, 2212-2219.	5.5	93
9	Physical interpretation and separation of eddy current pulsed thermography. Journal of Applied Physics, 2013, 113, .	1.1	92
10	Unsupervised Sparse Pattern Diagnostic of Defects With Inductive Thermography Imaging System. IEEE Transactions on Industrial Informatics, 2016, 12, 371-383.	7.2	87
11	Gait analysis in neurological populations: Progression in the use of wearables. Medical Engineering and Physics, 2021, 87, 9-29.	0.8	79
12	Quantitative Surface Crack Evaluation Based on Eddy Current Pulsed Thermography. IEEE Sensors Journal, 2017, 17, 412-421.	2.4	69
13	Robust Iris Segmentation Method Based on a New Active Contour Force With a Noncircular Normalization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 3128-3141.	5.9	67
14	Unsupervised Single-Channel Separation of Nonstationary Signals Using Gammatone Filterbank and Itakura-Saito Nonnegative Matrix Two-Dimensional Factorizations. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 662-675.	3.5	61
15	Physics-Based Image Segmentation Using First Order Statistical Properties and Genetic Algorithm for Inductive Thermography Imaging. IEEE Transactions on Image Processing, 2018, 27, 2160-2175.	6.0	61
16	Forecasting of photovoltaic power using extreme learning machine. , 2015, , .		58
17	Variational Regularized 2-D Nonnegative Matrix Factorization. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 703-716.	7.2	56
18	A Lightweight Spatial and Temporal Multi-Feature Fusion Network for Defect Detection. IEEE Transactions on Image Processing, 2021, 30, 472-486.	6.0	56

#	ARTICLE	IF	CITATIONS
19	Variational Bayesian Subgroup Adaptive Sparse Component Extraction for Diagnostic Imaging System. IEEE Transactions on Industrial Electronics, 2018, 65, 8142-8152.	5.2	55
20	Metal defects sizing and detection under thick coating using microwave NDT. NDT and E International, 2013, 60, 52-61.	1.7	52
21	Regularized Neural Networks Fusion and Genetic Algorithm Based On-Field Nitrogen Status Estimation of Wheat Plants. IEEE Transactions on Industrial Informatics, 2017, 13, 103-114.	7.2	52
22	Optimization of Fuzzy Energy-Management System for Grid-Connected Microgrid Using NSGA-II. IEEE Transactions on Cybernetics, 2021, 51, 5375-5386.	6.2	50
23	Machine Learning Source Separation Using Maximum a Posteriori Nonnegative Matrix Factorization. IEEE Transactions on Cybernetics, 2014, 44, 1169-1179.	6.2	49
24	A novel isoform of the 8p22 tumor suppressor gene DLC1 suppresses tumor growth and is frequently silenced in multiple common tumors. Oncogene, 2011, 30, 1923-1935.	2.6	48
25	Robust Sclera Recognition System With Novel Sclera Segmentation and Validation Techniques. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 474-486.	5.9	48
26	Integrated Equivalent Circuit and Thermal Model for Simulation of Temperature-Dependent LiFePO4 Battery in Actual Embedded Application. Energies, 2017, 10, 85.	1.6	48
27	IoT Structured Long-Term Wearable Social Sensing for Mental Wellbeing. IEEE Internet of Things Journal, 2019, 6, 3652-3662.	5.5	48
28	Automatic seeded region growing for thermography debonding detection of CFRP. NDT and E International, 2018, 99, 36-49.	1.7	46
29	A Deep-Learning-Driven Light-Weight Phishing Detection Sensor. Sensors, 2019, 19, 4258.	2.1	46
30	Adaptive Sparsity Non-Negative Matrix Factorization for Single-Channel Source Separation. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 989-1001.	7.3	45
31	Thermal Pattern Contrast Diagnostic of Microcracks With Induction Thermography for Aircraft Braking Components. IEEE Transactions on Industrial Informatics, 2018, 14, 5563-5574.	7.2	44
32	Spatial and Time Patterns Extraction of Eddy Current Pulsed Thermography Using Blind Source Separation. IEEE Sensors Journal, 2013, 13, 2094-2101.	2.4	43
33	Intelligent multi-agent system for smart home energy management. , 2015, , .		43
34	Dilated causal convolution with multi-head self attention for sensor human activity recognition. Neural Computing and Applications, 2021, 33, 13705-13722.	3.2	42
35	Molecular Characterization of Isoniazid Resistance in Mycobacterium tuberculosis : Identification of a Novel Mutation in inhA. Antimicrobial Agents and Chemotherapy, 2006, 50, 1075-1078.	1.4	41
36	Unsupervised Diagnostic and Monitoring of Defects Using Waveguide Imaging With Adaptive Sparse Representation. IEEE Transactions on Industrial Informatics, 2016, 12, 405-416.	7.2	41

#	ARTICLE	IF	CITATIONS
37	Thermography pattern analysis and separation. Applied Physics Letters, 2014, 104, .	1.5	40
38	Non-stationary feature fusion of face and palmprint multimodal biometrics. Neurocomputing, 2016, 177, 49-61.	3.5	39
39	Crack characterization in ferromagnetic steels by pulsed eddy current technique based on GA-BP neural network model. Journal of Magnetism and Magnetic Materials, 2020, 500, 166412.	1.0	39
40	Multi-modal gait: A wearable, algorithm and data fusion approach for clinical and free-living assessment. Information Fusion, 2022, 78, 57-70.	11.7	38
41	Online Noisy Single-Channel Source Separation Using Adaptive Spectrum Amplitude Estimator and Masking. IEEE Transactions on Signal Processing, 2016, 64, 1881-1895.	3.2	37
42	Single-Channel Blind Separation Using Pseudo-Stereo Mixture and Complex 2-D Histogram. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1722-1735.	7.2	36
43	Computational Deep Intelligence Vision Sensing for Nutrient Content Estimation in Agricultural Automation. IEEE Transactions on Automation Science and Engineering, 2018, 15, 1243-1257.	3.4	35
44	Heartrate-Dependent Heartwave Biometric Identification With Thresholding-Based GMM-HMM Methodology. IEEE Transactions on Industrial Informatics, 2019, 15, 45-53.	7.2	35
45	Quantitative validation of Eddy current stimulated thermal features on surface crack. NDT and E International, 2017, 85, 1-12.	1.7	33
46	Wavelet-Integrated Alternating Sparse Dictionary Matrix Decomposition in Thermal Imaging CFRP Defect Detection. IEEE Transactions on Industrial Informatics, 2019, 15, 4033-4043.	7.2	33
47	Neural network approach to blind signal separation of mono-nonlinearly mixed sources. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2005, 52, 1236-1247.	0.1	32
48	Region-of-interest extraction in low depth of field images using ensemble clustering and difference of Gaussian approaches. Pattern Recognition, 2013, 46, 2685-2699.	5.1	32
49	Electromagnetic Thermography Nondestructive Evaluation: Physics-based Modeling and Pattern Mining. Scientific Reports, 2016, 6, 25480.	1.6	32
50	Application of Artificial Intelligence-based Technology in Cancer Management: A Commentary on the Deployment of Artificial Neural Networks. Anticancer Research, 2018, 38, 6607-6613.	0.5	32
51	Secure Authentication for Face Recognition. , 2007, , .		31
52	Smooth Nonnegative Matrix Factorization for Defect Detection Using Microwave Nondestructive Testing and Evaluation. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 923-934.	2.4	31
53	Attention-Block Deep Learning Based Features Fusion in Wearable Social Sensor for Mental Wellbeing Evaluations. IEEE Access, 2020, 8, 89258-89268.	2.6	30
54	Cochleagram-based audio pattern separation using two-dimensional non-negative matrix factorization with automatic sparsity adaptation. Journal of the Acoustical Society of America, 2014, 135, 1171-1185.	0.5	29

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55	Thermography spatial-transient-stage mathematical tensor construction and material property variation track. International Journal of Thermal Sciences, 2014, 85, 112-122.	2.6	29
56	Finger texture biometric verification exploiting Multi-scale Sobel Angles Local Binary Pattern features and score-based fusion. , 2017, 70, 178-189.		28
57	Deep Temporal Convolution Network for Time Series Classification. Sensors, 2021, 21, 603.	2.1	28
58	A review of content-based image retrieval. , 2010, , .		27
59	Joint Learning of Temporal Models to Handle Imbalanced Data for Human Activity Recognition. Applied Sciences (Switzerland), 2020, 10, 5293.	1.3	27
60	Future trends in I&M: Human-machine co-creation in the rise of AI. IEEE Instrumentation and Measurement Magazine, 2020, 23, 71-73.	1.2	27
61	Blind restoration of nonlinearly mixed signals using multilayer polynomial neural network. IET Computer Vision, 2004, 151, 51.	1.3	26
62	Sparse Low-Rank Tensor Decomposition for Metal Defect Detection Using Thermographic Imaging Diagnostics. IEEE Transactions on Industrial Informatics, 2021, 17, 1810-1820.	7.2	25
63	Wearable Social Sensing: Content-Based Processing Methodology and Implementation. IEEE Sensors Journal, 2017, 17, 7167-7176.	2.4	24
64	Multi-GRU prediction system for electricity generation's planning and operation. IET Generation, Transmission and Distribution, 2019, 13, 1630-1637.	1.4	24
65	Multiphysics Structured Eddy Current and Thermography Defects Diagnostics System in Moving Mode. IEEE Transactions on Industrial Informatics, 2021, 17, 2566-2578.	7.2	24
66	General multilayer perceptron demixer scheme for nonlinear blind signal separation. IET Computer Vision, 2002, 149, 253.	1.3	23
67	Performance of keystroke biometrics authentication system using artificial neural network (ANN) and distance classifier method. , 2010, , .		23
68	Fuzzy logic control of energy storage system in microgrid operation. , 2016, , .		23
69	Forecasting of photovoltaic power using deep belief network. , 2017, , .		23
70	A Framework for Iris Biometrics Protection: A Marriage Between Watermarking and Visual Cryptography. IEEE Access, 2016, 4, 10180-10193.	2.6	22
71	Electromagnetic pulsed thermography for natural cracks inspection. Scientific Reports, 2017, 7, 42073.	1.6	22
72	DefectNet: Joint loss structured deep adversarial network for thermography defect detecting system. Neurocomputing, 2020, 417, 441-457.	3.5	22

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73	An investigation of trauma-centered inpatient treatment for adult survivors of abuse. <i>Child Abuse and Neglect</i> , 2003, 27, 393-406.	1.3	21
74	A comparative study of principal component analysis and independent component analysis in eddy current pulsed thermography data processing. <i>Review of Scientific Instruments</i> , 2013, 84, 104901.	0.6	21
75	Transient-spatial pattern mining of eddy current pulsed thermography using wavelet transform. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2014, 27, 768-778.	1.9	21
76	Implementation of demand side management of a smart home using multi-agent system. , 2016, , .		21
77	Smart Nanoscopy: A Review of Computational Approaches to Achieve Super-Resolved Optical Microscopy. <i>IEEE Access</i> , 2020, 8, 214801-214831.	2.6	21
78	Multimodal biometric fusion at feature level: Face and palmprint. , 2010, , .		20
79	Channel Modeling of Information Transmission Over Cognitive Interrogator-Sensor Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2011, 60, 2-15.	3.9	20
80	Multi-linear neighborhood preserving projection for face recognition. <i>Pattern Recognition</i> , 2014, 47, 544-555.	5.1	20
81	Wearable Audio Monitoring: Content-Based Processing Methodology and Implementation. <i>IEEE Transactions on Human-Machine Systems</i> , 2014, 44, 222-233.	2.5	20
82	Analysis and compensation of voltage unbalance of a DFIG using predictive rotor current control. <i>International Journal of Electrical Power and Energy Systems</i> , 2016, 75, 8-18.	3.3	20
83	Wearable Long-Term Social Sensing for Mental Wellbeing. <i>IEEE Sensors Journal</i> , 2019, 19, 8532-8542.	2.4	20
84	Automated Landslide-Risk Prediction Using Web GIS and Machine Learning Models. <i>Sensors</i> , 2021, 21, 4620.	2.1	20
85	Single-channel separation using underdetermined blind autoregressive model and least absolute deviation. <i>Neurocomputing</i> , 2015, 147, 412-425.	3.5	19
86	Study of fusion strategies and exploiting the combination of MFCC and PNCC features for robust biometric speaker identification. , 2016, , .		19
87	Diffusion and separation mechanism of transient electromagnetic and thermal fields. <i>International Journal of Thermal Sciences</i> , 2016, 102, 308-318.	2.6	19
88	Smart Sensing of Loads in an Extra Low Voltage DC Pico-Grid Using Machine Learning Techniques. <i>IEEE Sensors Journal</i> , 2017, 17, 7775-7783.	2.4	19
89	Sclera recognition: on the quality measure and segmentation of degraded images captured under relaxed imaging conditions. <i>IET Biometrics</i> , 2017, 6, 266-275.	1.6	19
90	Building a Globally Optimized Computational Intelligent Image Processing Algorithm for On-Site Inference of Nitrogen in Plants. <i>IEEE Intelligent Systems</i> , 2018, 33, 15-26.	4.0	19

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91	Photovoltaic Power Forecasting using LSTM on Limited Dataset. , 2018, , .		19
92	Ensemble Joint Sparse Low-Rank Matrix Decomposition for Thermography Diagnosis System. IEEE Transactions on Industrial Electronics, 2021, 68, 2648-2658.	5.2	19
93	Robustness and performance of Deep Reinforcement Learning. Applied Soft Computing Journal, 2021, 105, 107295.	4.1	19
94	Single-channel blind separation using L1-sparse complex non-negative matrix factorization for acoustic signals. Journal of the Acoustical Society of America, 2015, 137, EL124-EL129.	0.5	18
95	Lagrangian relaxation hybrid with evolutionary algorithm for short-term generation scheduling. International Journal of Electrical Power and Energy Systems, 2015, 64, 356-364.	3.3	18
96	Ensemble variational Bayes tensor factorization for super resolution of CFRP debond detection. Infrared Physics and Technology, 2017, 85, 335-346.	1.3	18
97	Nonlinear signal separation for multinonlinearity constrained mixing model. IEEE Transactions on Neural Networks, 2006, 17, 796-802.	4.8	17
98	Blind Source Separation of Postnonlinear Convulsive Mixture. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 2311-2330.	3.8	17
99	Robust feature extraction and salvage schemes for finger texture based biometrics. IET Biometrics, 2017, 6, 43-52.	1.6	17
100	Nonlinear underdetermined blind signal separation using Bayesian neural network approach. , 2007, 17, 50-68.		16
101	Underdetermined Convulsive Source Separation Using GEM-MU With Variational Approximated Optimum Model Order NMF2D. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 35-49.	4.0	16
102	Ensemble tensor decomposition for infrared thermography cracks detection system. Infrared Physics and Technology, 2020, 105, 103203.	1.3	16
103	Artificial Neural Network Based Prediction of Energy Generation from Thermoelectric Generator with Environmental Parameters. Journal of Clean Energy Technologies, 2017, 5, 458-463.	0.1	16
104	Fast search algorithms for video coding using orthogonal logarithmic search algorithm. IEEE Transactions on Consumer Electronics, 2005, 51, 552-559.	3.0	15
105	Discriminant analysis of the two-dimensional Gabor features for face recognition. IET Computer Vision, 2008, 2, 37.	1.3	15
106	Breast cancer prediction and cross validation using multilayer perceptron neural networks. , 2010, , .		15
107	Study on green water prediction for FPSOs by a practical numerical approach. Ocean Engineering, 2017, 143, 88-96.	1.9	15
108	Crack Evaluation Based on Novel Circle-Ferrite Induction Thermography. IEEE Sensors Journal, 2017, 17, 5637-5645.	2.4	15

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109	Advanced control strategy for an energy storage system in a grid-connected microgrid with renewable energy generation. IET Smart Grid, 2018, 1, 96-103.	1.5	15
110	Structural Coupled Electromagnetic Sensing of Defects Diagnostic System. IEEE Transactions on Industrial Electronics, 2023, 70, 951-964.	5.2	15
111	Regularised nonlinear blind signal separation using sparsely connected network. IET Computer Vision, 2005, 152, 61.	1.3	14
112	Intelligent Multi-Agent System for Power Grid Communication. , 2016, , .		14
113	A novel biometric approach to generate ROC curve from the Probabilistic Neural Network. , 2016, , .		14
114	A Pose-Based Feature Fusion and Classification Framework for the Early Prediction of Cerebral Palsy in Infants. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 8-19.	2.7	14
115	Spatial-Frequency Spectrum Characteristics Analysis With Different Lift-Offs for Microwave Nondestructive Testing and Evaluation Using Itakura-Saito Nonnegative Matrix Factorization. IEEE Sensors Journal, 2014, 14, 1822-1830.	2.4	13
116	Virtual reality simulation of fuzzy-logic control during underwater dynamic positioning. Journal of Marine Science and Application, 2015, 14, 14-24.	0.7	13
117	Enhanced segmentation and complex-sclera features for human recognition with unconstrained visible-wavelength imaging. , 2016, , .		13
118	C-Sync: Counter-based synchronization for duty-cycled wireless sensor networks. Ad Hoc Networks, 2017, 61, 51-64.	3.4	13
119	Transfer Learning for Wearable Long-Term Social Speech Evaluations. IEEE Access, 2018, 6, 61305-61316.	2.6	13
120	Multi-View Temporal Ensemble for Classification of Non-Stationary Signals. IEEE Access, 2019, 7, 32482-32491.	2.6	13
121	Deep Multiview Heartwave Authentication. IEEE Transactions on Industrial Informatics, 2019, 15, 777-786.	7.2	13
122	A Comparison of Feature Selection and Forecasting Machine Learning Algorithms for Predicting Glycaemia in Type 1 Diabetes Mellitus. Applied Sciences (Switzerland), 2021, 11, 1742.	1.3	13
123	Wearable Inertial Gait Algorithms: Impact of Wear Location and Environment in Healthy and Parkinson's Populations. Sensors, 2021, 21, 6476.	2.1	13
124	Nonlinear blind source separation using a hybrid RBF-FMLP network. IET Computer Vision, 2005, 152, 173.	1.3	12
125	Fuzzy Vault Crypto Biometric Key Based on Fingerprint Vector Features. , 2008, , .		12
126	Human authentication with finger textures based on image feature enhancement. , 2015, , .		12



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127	Thermoelectric energy harvesting for mobile phone charging application. , 2016, , .		12
128	Forecasting of photovoltaic power using regularized ensemble Extreme Learning Machine. , 2016, , .		12
129	Intelligent Controller for Energy Storage System in Grid-Connected Microgrid. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 650-658.	5.9	12
130	Personal verification based on multi-spectral finger texture lighting images. IET Signal Processing, 2018, 12, 1154-1164.	0.9	12
131	Subspace-based blind adaptive multiuser detection using Kalman filter. IET Communications, 2005, 152, 302.	1.0	11
132	Non-linear independent component analysis using series reversion and Weierstrass network. IET Computer Vision, 2006, 153, 115.	1.3	11
133	Extension of DUET to single-channel mixing model and separability analysis. Signal Processing, 2014, 96, 261-265.	2.1	11
134	Informed Single-Channel Speech Separation Using HMM-GMM User-Generated Exemplar Source. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 2087-2100.	4.0	11
135	Near-Optimal Day-Ahead Scheduling of Energy Storage System in Grid-Connected Microgrid. , 2018, , .		11
136	IoT Load Classification and Anomaly Warning in ELV DC Picogrids Using Hierarchical Extended $k$ -Nearest Neighbors. IEEE Internet of Things Journal, 2020, 7, 863-873.	5.5	11
137	Two-dimensional reduction PCA: a novel approach for feature extraction, representation, and recognition. , 2006, 6060, 125.		10
138	Temperature recovery from degenerated infrared image based on the principle for temperature measurement using infrared sensor. Journal of Applied Physics, 2014, 115, .	1.1	10
139	Spatial-time-state fusion algorithm for defect detection through eddy current pulsed thermography. Infrared Physics and Technology, 2018, 90, 133-145.	1.3	10
140	Adaptive Overcurrent Protection for Power Systems with Distributed Generators. , 2018, , .		10
141	Hierarchical low-rank and sparse tensor micro defects decomposition by electromagnetic thermography imaging system. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190584.	1.6	10
142	Structured iterative alternating sparse matrix decomposition for thermal imaging diagnostic system. Infrared Physics and Technology, 2020, 107, 103288.	1.3	10
143	Feature extraction using normalized cross-correlation for pulsed eddy current thermographic images. Measurement Science and Technology, 2010, 21, 115501.	1.4	9
144	DC appliance classification and identification using $k$ -Nearest Neighbours technique on features extracted within the 1st second of current waveforms. , 2015, , .		9

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145	DC equipment identification using K-means clustering and kNN classification techniques. , 2016, , .		9
146	Integration of a PV-battery hybrid system with the main power grid. , 2016, , .		9
147	Study of statistical robust closed set speaker identification with feature and score-based fusion. , 2016, , .		9
148	A novel method for sclera recognition with images captured on-the-move and at-a-distance. , 2016, , .		9
149	Efficient finger segmentation robust to hand alignment in imaging with application to human verification. , 2017, , .		9
150	Intelligent housing development building management system (HDBMS) for optimized electricity bills. , 2017, , .		9
151	Automatic Relevance Determination of Adaptive Variational Bayes Sparse Decomposition for Micro-Cracks Detection in Thermal Sensing. IEEE Sensors Journal, 2017, 17, 5220-5230.	2.4	9
152	Comparison of I-vector and GMM-UBM approaches to speaker identification with TIMIT and NIST 2008 databases in challenging environments. , 2017, , .		9
153	Evaluation of a speaker identification system with and without fusion using three databases in the presence of noise and handset effects. Eurasip Journal on Advances in Signal Processing, 2017, 2017, .	1.0	9
154	Periodic Pulsed Thermography for Inner Defects Detection of Lead-Steel Bonded Structure. IEEE Sensors Journal, 2018, 18, 4679-4688.	2.4	9
155	Single-Channel Signal Separation Using Spectral Basis Correlation with Sparse Nonnegative Tensor Factorization. Circuits, Systems, and Signal Processing, 2019, 38, 5786-5816.	1.2	9
156	Efficient Noisy Sound-Event Mixture Classification Using Adaptive-Sparse Complex-Valued Matrix Factorization and OvsO SVM. Sensors, 2020, 20, 4368.	2.1	9
157	Efficient methods for modelling substrate coupling in mixed-signal integrated circuits. Electronics and Communication Engineering Journal, 2001, 13, 237-248.	0.6	8
158	Semiblind estimation of time varying STFBC-OFDM channels using Kalman filter and CMA. , 0, , .		8
159	Differentiated cooperative multiple access for multimedia communications over fading wireless networks. IET Communications, 2009, 3, 1005.	1.5	8
160	Genetic Algorithm based Back-Propagation Neural Network approach for fault diagnosis in lithium-ion battery system. , 2015, , .		8
161	Islanding detection of distributed generation in presence of fault events. , 2017, , .		8
162	Overview of Adaptive Protection System for Modern Power Systems. , 2018, , .		8

#	ARTICLE	IF	CITATIONS
163	Unsupervised Learning for Monaural Source Separation Using Maximization–Minimization Algorithm with Time–Frequency Deconvolution. <i>Sensors</i> , 2018, 18, 1371.	2.1	8
164	Single channel informed signal separation using artificial–stereophonic mixtures and exemplar–guided matrix factor deconvolution. <i>International Journal of Adaptive Control and Signal Processing</i> , 2018, 32, 1259-1281.	2.3	8
165	A Nano-Biased Energy Management Using Reinforced Learning Multi-Agent on Layered Coalition Model: Consumer Sovereignty. <i>IEEE Access</i> , 2019, 7, 52542-52564.	2.6	8
166	Non-Intrusive Fish Weight Estimation in Turbid Water Using Deep Learning and Regression Models. <i>Sensors</i> , 2022, 22, 5161.	2.1	8
167	Nonlinear blind signal separation with intelligent controlled learning. <i>IET Computer Vision</i> , 2005, 152, 297.	1.3	7
168	Expectation–maximisation approach to blind source separation of nonlinear convolutive mixture. <i>IET Signal Processing</i> , 2007, 1, 51-65.	0.9	7
169	Fast and accurate method for complete iris segmentation with active contour and morphology. , 2014, , .		7
170	Lithium-ion battery modeling and validation for smart power system. , 2015, , .		7
171	Forecasting of wind energy generation using Self-Organizing Maps and Extreme Learning Machines. , 2016, , .		7
172	Day-ahead forecasting of wholesale electricity pricing using extreme learning machine. , 2017, , .		7
173	Tomographic Reconstruction of Rolling Contact Fatigues in Rails Using 3D Eddy Current Pulsed Thermography. <i>IEEE Sensors Journal</i> , 2021, 21, 18488-18496.	2.4	7
174	A novel Fisher discriminant for biometrics recognition: 2DPCA plus 2DFLD. , 0, , .		6
175	Performance of a Cooperative Relay-Based Auto-Rate MAC Protocol for Wireless Ad Hoc Networks. <i>IEEE Vehicular Technology Conference</i> , 2008, , .	0.2	6
176	Performance of keystroke biometrics authentication system using Multilayer Perceptron neural network (MLP NN). , 2010, , .		6
177	Iris feature extraction using principally rotated complex wavelet filters (PR-CWF). , 2015, , .		6
178	Efficient eye corner and gaze detection for sclera recognition under relaxed imaging constraints. , 2016, , .		6
179	Nondestructive Testing for Multi-Layer Metal-Metal Bonded Structure by Using Inductive Lock-In Thermography. <i>IEEE Sensors Journal</i> , 2017, 17, 6716-6723.	2.4	6
180	Reverberant signal separation using optimized complex sparse nonnegative tensor deconvolution on spectral covariance matrix. , 2018, 83, 9-23.		6

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181	Modified multiple generalized regression neural network models using fuzzy C-means with principal component analysis for noise prediction of offshore platform. <i>Neural Computing and Applications</i> , 2019, 31, 1127-1142.	3.2	6
182	Memory Linked Anomaly Metric Learning of Thermography Rail Defects Detection System. <i>IEEE Sensors Journal</i> , 2021, 21, 24720-24730.	2.4	6
183	RobIn: A robust interpretable deep network for schizophrenia diagnosis. <i>Expert Systems With Applications</i> , 2022, 201, 117158.	4.4	6
184	Nonlinear complex behaviour of TCP in UMTS networks and performance analysis. <i>IET Circuits, Devices and Systems</i> , 2008, 2, 69.	0.9	5
185	3D shape restoration using sparse representation and separation of illumination effects. <i>Signal Processing</i> , 2014, 103, 258-272.	2.1	5
186	Intelligent distributed smart grid network " Reconfiguration. , 2015, , .		5
187	Non-Intrusive Appliance Load Monitoring and Identification for smart home. , 2016, , .		5
188	Optimal design of orders of DFrFTs for sparse representations. <i>IET Signal Processing</i> , 2018, 12, 1023-1033.	0.9	5
189	Dynamic Positioning Reliability Index (DP-RI) and Offline Forecasting of DP-RI During Complex Marine Operations. , 2018, , .		5
190	Artificial Intelligence for Emerging Technology in Surgery: Systematic Review and Validation. <i>IEEE Reviews in Biomedical Engineering</i> , 2023, 16, 241-259.	13.1	5
191	Fuzzy decorrelating detector for non-Gaussian CDMA channel. <i>Electronics Letters</i> , 2004, 40, 948.	0.5	4
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