

Zheng Liu

List of Publications by Year in descending order

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214
papers

5,879
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214
times ranked

4561
citing authors

#	ARTICLE	IF	CITATIONS
1	Objective Assessment of Multiresolution Image Fusion Algorithms for Context Enhancement in Night Vision: A Comparative Study. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 94-109.	13.9	546
2	Directive Contrast Based Multimodal Medical Image Fusion in NSCT Domain. IEEE Transactions on Multimedia, 2013, 15, 1014-1024.	7.2	361
3	State of the art review of inspection technologies for condition assessment of water pipes. Measurement: Journal of the International Measurement Confederation, 2013, 46, 1-15.	5.0	339
4	The role of data fusion in predictive maintenance using digital twin. AIP Conference Proceedings, 2018, , .	0.4	163
5	Image fusion by using steerable pyramid. Pattern Recognition Letters, 2001, 22, 929-939.	4.2	153
6	A new contrast based multimodal medical image fusion framework. Neurocomputing, 2015, 157, 143-152.	5.9	145
7	Advances on Sensing Technologies for Smart Cities and Power Grids: A Review. IEEE Sensors Journal, 2017, 17, 7596-7610.	4.7	136
8	Human visual system inspired multi-modal medical image fusion framework. Expert Systems With Applications, 2013, 40, 1708-1720.	7.6	105
9	Semisupervised Graph Convolution Deep Belief Network for Fault Diagnosis of Electromechanical System With Limited Labeled Data. IEEE Transactions on Industrial Informatics, 2021, 17, 5450-5460.	11.3	104
10	Survey: State of the Art in NDE Data Fusion Techniques. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 2435-2451.	4.7	92
11	Pipeline Leak Detection by Using Time-Domain Statistical Features. IEEE Sensors Journal, 2017, 17, 6431-6442.	4.7	91
12	Internet of Things Empowered Smart Greenhouse Farming. IEEE Journal of Radio Frequency Identification, 2020, 4, 195-211.	2.3	89
13	State-of-the-Art Review of Technologies for Pipe Structural Health Monitoring. IEEE Sensors Journal, 2012, 12, 1987-1992.	4.7	88
14	SEDRFuse: A Symmetric Encoder–Decoder With Residual Block Network for Infrared and Visible Image Fusion. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-15.	4.7	88
15	Traffic light recognition in varying illumination using deep learning and saliency map. , 2014, , .		77
16	Phase congruence measurement for image similarity assessment. Pattern Recognition Letters, 2007, 28, 166-172.	4.2	76
17	Pedestrian detection in thermal images using adaptive fuzzy C-means clustering and convolutional neural networks. , 2015, , .		76
18	Earthquake induced damage classification for reinforced concrete buildings. Structural Safety, 2010, 32, 154-164.	5.3	75

#	ARTICLE	IF	CITATIONS
19	Statistical comparison of image fusion algorithms: Recommendations. <i>Information Fusion</i> , 2017, 36, 251-260.	19.1	73
20	Allergen immunotherapy improves defective follicular regulatory T cells in patients with allergic rhinitis. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 144, 118-128.	2.9	72
21	Roles of follicular helper and regulatory T cells in allergic diseases and allergen immunotherapy. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 456-470.	5.7	71
22	A feature-based metric for the quantitative evaluation of pixel-level image fusion. <i>Computer Vision and Image Understanding</i> , 2008, 109, 56-68.	4.7	65
23	Nasal IL-4+CXCR5+CD4+ T follicular helper cell counts correlate with local IgE production in eosinophilic nasal polyps. <i>Journal of Allergy and Clinical Immunology</i> , 2016, 137, 462-473.	2.9	64
24	Analysis of Magnetic-Flux Leakage (MFL) Data for Pipeline Corrosion Assessment. <i>IEEE Transactions on Magnetics</i> , 2020, 56, 1-15.	2.1	63
25	Learning-based super resolution using kernel partial least squares. <i>Image and Vision Computing</i> , 2011, 29, 394-406.	4.5	61
26	Intelligent Fault Diagnosis of Multichannel Motor Rotor System Based on Multimanifold Deep Extreme Learning Machine. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 2177-2187.	5.8	61
27	Coupled GAN With Relativistic Discriminators for Infrared and Visible Images Fusion. <i>IEEE Sensors Journal</i> , 2021, 21, 7458-7467.	4.7	61
28	Saliency Map Generation by the Convolutional Neural Network for Real-Time Traffic Light Detection Using Template Matching. <i>IEEE Transactions on Computational Imaging</i> , 2015, 1, 159-173.	4.4	59
29	Temporal-Spatio Graph Based Spectrum Analysis for Bearing Fault Detection and Diagnosis. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 2598-2607.	7.9	52
30	Normalized Conditional Variational Auto-Encoder with adaptive Focal loss for imbalanced fault diagnosis of Bearing-Rotor system. <i>Mechanical Systems and Signal Processing</i> , 2022, 170, 108826.	8.0	52
31	Experimenting with pixel-level NDT data fusion techniques. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2000, 49, 1083-1090.	4.7	46
32	Intelligent Fault Diagnosis of Gearbox Under Variable Working Conditions With Adaptive Intra-class and Interclass Convolutional Neural Network. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2023, 34, 6339-6353.	11.3	45
33	A Nonlinear Regression Application via Machine Learning Techniques for Geomagnetic Data Reconstruction Processing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 128-140.	6.3	44
34	Global contextual residual convolutional neural networks for motor fault diagnosis under variable-speed conditions. <i>Reliability Engineering and System Safety</i> , 2022, 225, 108618.	8.9	42
35	An automated vision system for container-code recognition. <i>Expert Systems With Applications</i> , 2012, 39, 2842-2855.	7.6	41
36	Real-Time Lane Estimation Using Deep Features and Extra Trees Regression. <i>Lecture Notes in Computer Science</i> , 2016, , 721-733.	1.3	40

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37	The use of laser range finder on a robotic platform for pipe inspection. <i>Mechanical Systems and Signal Processing</i> , 2012, 31, 246-257.	8.0	39
38	Correlation of allergen-specific T follicular helper cell counts with specific IgE levels and efficacy of allergen immunotherapy. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 142, 321-324.e10.	2.9	39
39	Supervised Contrastive Learning-Based Domain Adaptation Network for Intelligent Unsupervised Fault Diagnosis of Rolling Bearing. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 5371-5380.	5.8	39
40	AIS data driven general vessel destination prediction: A random forest based approach. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 118, 102729.	7.6	38
41	Classification of defects with ensemble methods in the automated visual inspection of sewer pipes. <i>Pattern Analysis and Applications</i> , 2015, 18, 263-276.	4.6	35
42	An Adaptive Pansharpening Method by Using Weighted Least Squares Filter. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2016, 13, 18-22.	3.1	35
43	Fusing synergistic information from multi-sensor images: An overview from implementation to performance assessment. <i>Information Fusion</i> , 2018, 42, 127-145.	19.1	35
44	RFID Sensing Technologies for Smart Agriculture. <i>IEEE Instrumentation and Measurement Magazine</i> , 2021, 24, 50-60.	1.6	35
45	CD23 expression on switched memory B cells bridges T&B cell interaction in allergic rhinitis. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 2599-2612.	5.7	34
46	Multireceptive Field Denoising Residual Convolutional Networks for Fault Diagnosis. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 11686-11696.	7.9	34
47	A novel image fusion framework for night-vision navigation and surveillance. <i>Signal, Image and Video Processing</i> , 2015, 9, 165-175.	2.7	32
48	Processing thermography images for pitting corrosion quantification on small diameter ductile iron pipe. <i>NDT and E International</i> , 2012, 47, 105-115.	3.7	30
49	Multi-source urban data fusion for property value assessment: A case study in Philadelphia. <i>Neurocomputing</i> , 2020, 404, 70-83.	5.9	30
50	Exploring the Relationship between Soil Properties and Deterioration of Metallic Pipes Using Predictive Data Mining Methods. <i>Journal of Computing in Civil Engineering</i> , 2010, 24, 289-301.	4.7	29
51	Single-image super-resolution based on Markov random field and contourlet transform. <i>Journal of Electronic Imaging</i> , 2011, 20, 023005.	0.9	29
52	Printed Sensor Technologies for Monitoring Applications in Smart Farming: A Review. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-19.	4.7	29
53	Ontology-Based Driving Decision Making: A Feasibility Study at Uncontrolled Intersections. <i>IEICE Transactions on Information and Systems</i> , 2017, E100.D, 1425-1439.	0.7	28
54	Elderly Fall Detection with an Accelerometer Using Lightweight Neural Networks. <i>Electronics (Switzerland)</i> , 2019, 8, 1354.	3.1	28

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55	Semisupervised Deep Sparse Auto-Encoder With Local and Nonlocal Information for Intelligent Fault Diagnosis of Rotating Machinery. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	27
56	A Data-Fusion Scheme for Quantitative Image Analysis by Using Locally Weighted Regression and Dempster-Shafer Theory. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 2554-2560.	4.7	26
57	Pedestrian detection from thermal images: A sparse representation based approach. Infrared Physics and Technology, 2016, 76, 157-167.	2.9	26
58	Automated Vision Systems for Condition Assessment of Sewer and Water Pipelines. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1861-1878.	5.2	26
59	Nonlinear ultrasonic testing and data analytics for damage characterization: A review. Measurement: Journal of the International Measurement Confederation, 2021, 186, 110155.	5.0	26
60	Normalizing transducer signals: An overview of a proposed standard. , 2014, , .		25
61	Fast decision making using ontology-based knowledge base. , 2016, , .		25
62	Data-Driven Approaches for Characterization of Delamination Damage in Composite Materials. IEEE Transactions on Industrial Electronics, 2021, 68, 2532-2542.	7.9	25
63	Prediction of lateral spread displacement: data-driven approaches. Bulletin of Earthquake Engineering, 2012, 10, 1431-1454.	4.1	24
64	Prognostics of damage growth in composite materials using machine learning techniques. , 2017, , .		24
65	Noise characterization for the FID signal from proton precession magnetometer. Journal of Instrumentation, 2017, 12, P07019-P07019.	1.2	24
66	A fusion of principal component analysis and singular value decomposition based multivariate denoising algorithm for free induction decay transversal data. Review of Scientific Instruments, 2019, 90, 035116.	1.3	24
67	Matching pipeline In-line inspection data for corrosion characterization. NDT and E International, 2019, 101, 44-52.	3.7	24
68	Soft computing in estimating the compressive strength for high-performance concrete via concrete composition appraisal. Construction and Building Materials, 2020, 257, 119472.	7.2	23
69	Context enhancement through infrared vision: a modified fusion scheme. Signal, Image and Video Processing, 2007, 1, 293-301.	2.7	22
70	Fusion of thermal and visible cameras for the application of pedestrian detection. Signal, Image and Video Processing, 2017, 11, 517-524.	2.7	22
71	Construction of an Overhauser magnetic gradiometer and the applications in geomagnetic observation and ferromagnetic target localization. Journal of Instrumentation, 2017, 12, T10008-T10008.	1.2	21
72	Multi-Sensor Measurement and Data Fusion. IEEE Instrumentation and Measurement Magazine, 2022, 25, 28-36.	1.6	21

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73	Concealed weapon detection and visualization in a synthesized image. Pattern Analysis and Applications, 2006, 8, 375-389.	4.6	20
74	Improving laser image resolution for pitting corrosion measurement using Markov random field method. Automation in Construction, 2012, 21, 172-183.	9.8	20
75	Prediction of pipe performance with Stacking ensemble learning based Approaches. Journal of Intelligent and Fuzzy Systems, 2018, 34, 3845-3855.	1.4	20
76	Deep Learning Thermal Image Translation for Night Vision Perception. ACM Transactions on Intelligent Systems and Technology, 2021, 12, 1-18.	4.5	20
77	Validation of Strain Gauges for Structural Health Monitoring With Bayesian Belief Networks. IEEE Sensors Journal, 2013, 13, 400-407.	4.7	19
78	Fault Diagnosis Framework of Rolling Bearing Using Adaptive Sparse Contrastive Auto-Encoder With Optimized Unsupervised Extreme Learning Machine. IEEE Access, 2020, 8, 99154-99170.	4.2	19
79	Regression model for appraisal of real estate using recurrent neural network and boosting tree. , 2017, , .		18
80	IR2VI: Enhanced Night Environmental Perception by Unsupervised Thermal Image Translation. , 2018, , .		18
81	Attention-based multi-modal fusion for improved real estate appraisal: a case study in Los Angeles. Multimedia Tools and Applications, 2019, 78, 31163-31184.	3.9	18
82	An Adaptive Approach for Ice Detection in Wind Turbine With Inductive Transfer Learning. IEEE Access, 2019, 7, 122205-122213.	4.2	18
83	A data-driven approach for pipe deformation prediction based on soil properties and weather conditions. Sustainable Cities and Society, 2020, 55, 102012.	10.4	17
84	Two-Dimensional Eddy Current Signal Enhancement via Multifrequency Data Fusion. Research in Nondestructive Evaluation, 1999, 11, 165-177.	1.1	16
85	Using multiple orientational filters of steerable pyramid for image registration. Information Fusion, 2002, 3, 203-214.	19.1	16
86	Automated rivet detection in the EOL image for aircraft lap joints inspection. NDT and E International, 2006, 39, 441-448.	3.7	16
87	Computational Intelligence for Urban Infrastructure Condition Assessment: Water Transmission and Distribution Systems. IEEE Sensors Journal, 2014, 14, 4122-4133.	4.7	16
88	Real-time road surface and semantic lane estimation using deep features. Signal, Image and Video Processing, 2018, 12, 1133-1140.	2.7	16
89	Infrared and Visible Image Fusion Based on Deep Decomposition Network and Saliency Analysis. IEEE Transactions on Multimedia, 2022, 24, 3314-3326.	7.2	16
90	Multiple-Order Graphical Deep Extreme Learning Machine for Unsupervised Fault Diagnosis of Rolling Bearing. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	16

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91	Affine Projection Algorithm-Based High-Order Error Power for Partial Discharge Denoising in Power Cables. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1821-1832.	4.7	15
92	LANDSAT satellite image fusion metric assessment. , 2011, , .		14
93	Pipeline Leak Detection and Location Based on Model-Free Isolation of Abnormal Acoustic Signals. Energies, 2019, 12, 3172.	3.1	14
94	CMFALL: A Cascade and Parallel Multi-State Fall Detection Algorithm Using Waist-Mounted Tri-Axial Accelerometer Signals. IEEE Transactions on Consumer Electronics, 2020, 66, 261-270.	3.6	14
95	A Probabilistic Framework for Remaining Useful Life Prediction of Bearings. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	14
96	Tensor-Based Approach for Liquefied Natural Gas Leakage Detection From Surveillance Thermal Cameras: A Feasibility Study in Rural Areas. IEEE Transactions on Industrial Informatics, 2021, 17, 8122-8130.	11.3	14
97	On the Use of Phase Congruency to Evaluate Image Similarity. , 0, , .		13
98	Magnetic Dipole Two-Point Tensor Positioning Based on Magnetic Moment Constraints. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	13
99	Probabilistic Analysis for Remaining Useful Life Prediction and Reliability Assessment. IEEE Transactions on Reliability, 2022, 71, 1207-1218.	4.6	13
100	An Effective Approach to Deembed the Complex Propagation Constant of Half-Mode SIW and Its Application. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 109-116.	2.5	12
101	Apparatus and method for efficient sampling of critical parameters demonstrated by monitoring an Overhauser geomagnetic sensor. Review of Scientific Instruments, 2018, 89, 125109.	1.3	12
102	Algebraic Multi-Grid Based Multi-Focus Image Fusion Using Watershed Algorithm. IEEE Access, 2018, 6, 47082-47091.	4.2	12
103	Predictive analytics for building power demand: Day-ahead forecasting and anomaly prediction. Energy and Buildings, 2022, 255, 111670.	6.7	12
104	Image fusion of the Terahertz-visual NAECON Grand Challenge data. , 2012, , .		11
105	Seismic risk analysis using Bayesian belief networks. , 2013, , 175-208.		11
106	Use of Sparse Representation for Pedestrian Detection in Thermal Images. , 2014, , .		11
107	Deep Learning Measures of Effectiveness. , 2018, , .		11
108	Temperature Sensing and Evaluation of Thermal Effects on Battery Packs for Automotive Applications. IEEE Sensors Journal, 2019, 19, 11634-11645.	4.7	11

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109	Magneto-Inductive Magnetic Gradient Tensor System for Detection of Ferromagnetic Objects. IEEE Magnetics Letters, 2020, 11, 1-5.	1.1	11
110	Efficient noise reduction for the free induction decay signal from a proton precession magnetometer with time-frequency peak filtering. Review of Scientific Instruments, 2020, 91, 045101.	1.3	11
111	REGISTRATION OF MULTI-MODAL NDI IMAGES FOR AGING AIRCRAFT. Research in Nondestructive Evaluation, 2004, 15, 1-17.	1.1	10
112	Image Fusion Algorithm Assessment Based on Feature Measurement. , 0, , .		10
113	Combining multiple nondestructive inspection images with a generalized additive model. Measurement Science and Technology, 2008, 19, 085701.	2.6	10
114	Application of Hilbert-Huang Decomposition to Reduce Noise and Characterize for NMR FID Signal of Proton Precession Magnetometer. Instruments and Experimental Techniques, 2018, 61, 55-64.	0.5	10
115	Predictive Analytics of In-Service Bridge Structural Performance from SHM Data Mining Perspective: A Case Study. Shock and Vibration, 2019, 2019, 1-11.	0.6	10
116	Pulsed Eddy Current Data Analysis for the Characterization of the Second-Layer Discontinuities. Journal of Nondestructive Evaluation, 2019, 38, 1.	2.4	10
117	An Adaptive Deep Learning Framework for Shipping Container Code Localization and Recognition. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	10
118	Hierarchical Multiscale Dense Networks for Intelligent Fault Diagnosis of Electromechanical Systems. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	10
119	Multisensor concealed weapon detection by using a multiresolution mosaic approach *. , 0, , .		9
120	High-Precision Sensor Tuning of Proton Precession Magnetometer by Combining Principal Component Analysis and Singular Value Decomposition. IEEE Sensors Journal, 2019, 19, 9688-9696.	4.7	9
121	Adaptive pre-whiten filtering for the free induction decay transversal signal in weak magnetic detection. Review of Scientific Instruments, 2019, 90, .	1.3	9
122	Design and Implementation of a Tuning-Matching Framework for a High-Sensitivity Broad Band Proton Precession Magnetometer Sensing Coil. IEEE Sensors Journal, 2020, 20, 127-134.	4.7	9
123	WCGAN: A wavelet-guided generative adversarial network for thermal image translation. , 2021, , 313-327.		9
124	Valve Detection for Autonomous Water Pipeline Inspection Platform. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1070-1080.	5.8	9
125	Registration of GPS and Stereo Vision for Point Cloud Localization in Intelligent Vehicles Using Particle Swarm Optimization. Lecture Notes in Computer Science, 2017, , 209-217.	1.3	9
126	Water pipe valve detection by using deep neural networks. , 2020, , .		9

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127	An overview of sensing platform-technological aspects for vector magnetic measurement: A case study of the application in different scenarios. Measurement: Journal of the International Measurement Confederation, 2022, 187, 110352.	5.0	9
128	A New Framework for Container Code Recognition by Using Segmentation-Based and HMM-Based Approaches. International Journal of Pattern Recognition and Artificial Intelligence, 2015, 29, 1550004.	1.2	8
129	Estimation of Steering Angle and Collision Avoidance for Automated Driving Using Deep Mixture of Experts. IEEE Transactions on Intelligent Vehicles, 2018, 3, 571-584.	12.7	8
130	A comprehensive study on the weak magnetic sensor character of different geometries for proton precession magnetometer. Journal of Instrumentation, 2018, 13, T09003-T09003.	1.2	8
131	Wind turbine ice assessment through inductive transfer learning. , 2018, , .		8
132	Stereo vision-based vehicle localization in point cloud maps using multiswarm particle swarm optimization. Signal, Image and Video Processing, 2019, 13, 805-812.	2.7	8
133	A steerable pyramid autoencoder based framework for anomaly frame detection of water pipeline CCTV inspection. Measurement: Journal of the International Measurement Confederation, 2021, 174, 109020.	5.0	8
134	Quantifying Surface Deformation With the Edge of Light-Enhanced Visual Inspection. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 416-422.	4.7	7
135	Integrated imaging and vision techniques for industrial inspection: a special issue on machine vision and applications. Machine Vision and Applications, 2010, 21, 597-599.	2.7	7
136	Pedestrian detection from thermal images with a scattered difference of directional gradients feature descriptor. , 2014, , .		7
137	Automatic calibration and registration of lidar and stereo camera without calibration objects. , 2015, , .		7
138	Using Algorithms on Smart Transducer: An IEEE Standard Perspective. IEEE Sensors Journal, 2015, 15, 2523-2530.	4.7	7
139	Magnetic gradient full-tensor fingerprints for metallic objects detection of a security system based on anisotropic magnetoresistance sensor arrays. AIP Advances, 2020, 10, .	1.3	7
140	Active Detection of Small UXO-Like Targets Through Measuring Electromagnetic Responses With a Magneto-Inductive Sensor Array. IEEE Sensors Journal, 2021, 21, 23558-23567.	4.7	7
141	Improving the Signal-to-Noise-Ratio of Free Induction Decay Signals Using a New Multilinear Singular Value Decomposition-Based Filter. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	7
142	A Review on Sensing Technologies for High-Throughput Plant Phenotyping. , 2022, 1, 1-21.		7
143	Digital watermarking by using a feature-based multiwavelet fusion approach. , 0, , .		6
144	Concealed Weapon Detection: A Data Fusion Perspective. Journal of Aerospace Computing, Information, and Communication, 2010, 7, 196-209.	0.8	6

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145	Guest Editorial Special Issue on Smart Sensors for Smart Grids and Smart Cities. IEEE Sensors Journal, 2017, 17, 7594-7595.	4.7	6
146	Multi-Sensor Fusion Based on Local Activity Measure. IEEE Sensors Journal, 2017, 17, 7487-7496.	4.7	6
147	Efficient Performance Optimization for the Magnetic Data Readout From a Proton Precession Magnetometer With Low-Rank Constraint. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	6
148	Theoretical analysis of Tsallis entropy-based quality measure for weighted averaging image fusion. Information Fusion, 2020, 58, 69-81.	19.1	6
149	Quantitative Analysis of the Measurable Areas of Differential Magnetic Gradient Tensor Systems for Unexploded Ordnance Detection. IEEE Sensors Journal, 2021, 21, 5952-5960.	4.7	6
150	Anomaly detection of complex magnetic measurements using structured Hankel low-rank modeling and singular value decomposition. Review of Scientific Instruments, 2022, 93, 045107.	1.3	6
151	Preprocessing of Edge of Light images: towards a quantitative evaluation. , 2003, , .		5
152	Processing laser range image for the investigation on the long-term performance of ductile iron pipe. Nondestructive Testing and Evaluation, 2008, 23, 65-75.	2.1	5
153	Prediction of Pipe Performance with Ensemble Machine Learning Based Approaches. , 2017, , .		5
154	MR and PET Image Fusion Using Nonparametric Bayesian Joint Dictionary Learning. , 2019, 3, 1-4.		5
155	In-service bridge SHM point arrangement with consideration of structural robustness. Journal of Civil Structural Health Monitoring, 2019, 9, 543-554.	3.9	5
156	GPU-Accelerated Tensor Decomposition for Moving Object Detection from Multimodal Imaging. , 2020, , .		5
157	Automated Box Data Matching for Multi-Modal Magnetic Flux Leakage Inspection of Pipelines. IEEE Transactions on Magnetics, 2021, 57, 1-10.	2.1	5
158	Probabilistic method for fatigue crack growth prediction with hybrid prior. International Journal of Fatigue, 2022, 157, 106686.	5.7	5
159	Investigations on classifying pulsed eddy current signals with a neural network. Insight: Non-Destructive Testing and Condition Monitoring, 2003, 45, 608-614.	0.6	4
160	Data Fusion Method for the Optimal Mixing of Multi-Frequency Eddy Current Signals. AIP Conference Proceedings, 2003, , .	0.4	4
161	Wavelet Neural Network Based Data Fusion for Improved Thickness Characterization. AIP Conference Proceedings, 2004, , .	0.4	4
162	Experimenting capacitive sensing technique for structural integrity assessment. , 2017, , .		4

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163	Peer-Dependence Valuation Model for Real Estate Appraisal. Data-Enabled Discovery and Applications, 2019, 3, 1.	1.2	4
164	A Variational Approach for Fusion of Panchromatic and Multispectral Images Using a New Spatial-Spectral Consistency Term. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 3421-3436.	4.9	4
165	SGCast: A New Forecasting Framework for Multilocation Geomagnetic Data With Missing Traces Based on Matrix Factorization. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	4
166	Two-Dimensional Eddy Current Signal Enhancement via Multifrequency Data Fusion. Research in Nondestructive Evaluation, 1999, 11, 165-177.	1.1	4
167	Topic modeling of maintenance logs for linac failure modes and trends identification. Journal of Applied Clinical Medical Physics, 2022, 23, e13477.	1.9	4
168	Quantifying Aircraft Hidden Corrosion by Using Multi-Modal NDI Techniques. AIP Conference Proceedings, 2004, , .	0.4	3
169	Application of Dempster-Shafer theory for fusion of lap joints inspection data. , 2006, 6176, 337.		3
170	Characterization of surface deformation with the Edge of Light™ technique. Machine Vision and Applications, 2008, 19, 35-42.	2.7	3
171	Parameterizing Magnetic Flux Leakage Data for Pipeline Corrosion Defect Retrieval. , 2019, , .		3
172	Compressed sensing based tuning algorithm for the sensor of proton precession magnetometers. Review of Scientific Instruments, 2020, 91, 085118.	1.3	3
173	Smart Valve Detection System for Water Distribution Networks. , 2021, , .		3
174	An HRCR-CNN Framework for Automated Security Seal Detection on the Shipping Container. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	3
175	Industrial Inspection with Open Eyes: Advance with Machine Vision Technology. Advances in Computer Vision and Pattern Recognition, 2015, , 1-37.	1.3	3
176	Pulsed Eddy Current Inspections of Aircraft Structures in Support of Holistic Damage Tolerance. , 0, , .		2
177	Automated Measurement of Corrosion Damage Using Edge of Light Technique. AIP Conference Proceedings, 2004, , .	0.4	2
178	<title>Fusion of visual and eddy current inspection results for the evaluation of corrosion damage in aircraft lap joints</title>. , 2005, 5768, 157.		2
179	Multiresolution Data Fusion Algorithm for Aerospace Applications. AIP Conference Proceedings, 2005, , .	0.4	2
180	Experiments on battery capacity estimation. , 2015, , .		2

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181	Sensor Fusion and Registration of Lidar and Stereo Camera without Calibration Objects. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 499-509.	0.3	2
182	Pressure Signal Enhancement of Slowly Increasing Leaks Using Digital Compensator Based on Acoustic Sensor. Sensors, 2019, 19, 4317.	3.8	2
183	Data Fusion for the Diagnostics, Prognostics, and Health Management of Aircraft Systems. Advances in Intelligent Systems and Computing, 2014, , 389-399.	0.6	2
184	Concrete performance prediction using boosting smooth transition regression trees (BooST). , 2019, , .		2
185	Multisource deep learning for situation awareness. , 2019, , .		2
186	Real-time embedded system for valve detection in water pipelines. Journal of Real-Time Image Processing, 2022, 19, 247-259.	3.5	2
187	Steel property evaluation from the hysteresis loop by using Fourier descriptors. , 0, , .		1
188	Multiresolution image fusion and its NDT application. AIP Conference Proceedings, 2000, , .	0.4	1
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