

Zheng Liu

List of Publications by Year in descending order

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214
papers

5,879
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times ranked

4561
citing authors

#	ARTICLE	IF	CITATIONS
1	Intelligent Fault Diagnosis of Gearbox Under Variable Working Conditions With Adaptive Intra-class and Interclass Convolutional Neural Network. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 6339-6353.	11.3	45
2	Infrared and Visible Image Fusion Based on Deep Decomposition Network and Saliency Analysis. IEEE Transactions on Multimedia, 2022, 24, 3314-3326.	7.2	16
3	Valve Detection for Autonomous Water Pipeline Inspection Platform. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1070-1080.	5.8	9
4	Non-vibration data-driven inverse evaluation analysis of in-service prefabricated slab-on-girder bridge. Innovative Infrastructure Solutions, 2022, 7, 1.	2.2	0
5	Probabilistic Analysis for Remaining Useful Life Prediction and Reliability Assessment. IEEE Transactions on Reliability, 2022, 71, 1207-1218.	4.6	13
6	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
7	Topic modeling of maintenance logs for linac failure modes and trends identification. Journal of Applied Clinical Medical Physics, 2022, 23, e13477.	1.9	4
8	Predictive analytics for building power demand: Day-ahead forecasting and anomaly prediction. Energy and Buildings, 2022, 255, 111670.	6.7	12
9	Real-time embedded system for valve detection in water pipelines. Journal of Real-Time Image Processing, 2022, 19, 247-259.	3.5	2
10	Multireceptive Field Denoising Residual Convolutional Networks for Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2022, 69, 11686-11696.	7.9	34
11	Multi-Sensor Measurement and Data Fusion. IEEE Instrumentation and Measurement Magazine, 2022, 25, 28-36.	1.6	21
12	Probabilistic method for fatigue crack growth prediction with hybrid prior. International Journal of Fatigue, 2022, 157, 106686.	5.7	5
13	Normalized Conditional Variational Auto-Encoder with adaptive Focal loss for imbalanced fault diagnosis of Bearing-Rotor system. Mechanical Systems and Signal Processing, 2022, 170, 108826.	8.0	52
14	Hierarchical Multiscale Dense Networks for Intelligent Fault Diagnosis of Electromechanical Systems. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	10
15	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
16	Transfer Learning-enabled Modelling Framework for Digital Twin. , 2022, , ,		1
17	A Review on Sensing Technologies for High-Throughput Plant Phenotyping. , 2022, 1, 1-21.		7
18	Global contextual residual convolutional neural networks for motor fault diagnosis under variable-speed conditions. Reliability Engineering and System Safety, 2022, 225, 108618.	8.9	42

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19	Supervised Contrastive Learning-Based Domain Adaptation Network for Intelligent Unsupervised Fault Diagnosis of Rolling Bearing. IEEE/ASME Transactions on Mechatronics, 2022, 27, 5371-5380.	5.8	39
20	Cooperative Suppression of Negative Effects Associated With Multicollinearity and Abnormal Data for Aeromagnetic Compensation. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	1
21	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
22	Data-Driven Approaches for Characterization of Delamination Damage in Composite Materials. IEEE Transactions on Industrial Electronics, 2021, 68, 2532-2542.	7.9	25
23	Temporal-Spatio Graph Based Spectrum Analysis for Bearing Fault Detection and Diagnosis. IEEE Transactions on Industrial Electronics, 2021, 68, 2598-2607.	7.9	52
24	Coupled GAN With Relativistic Discriminators for Infrared and Visible Images Fusion. IEEE Sensors Journal, 2021, 21, 7458-7467.	4.7	61
25	A Probabilistic Framework for Remaining Useful Life Prediction of Bearings. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	14
26	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
27	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
28	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
29	Roles of follicular helper and regulatory T cells in allergic diseases and allergen immunotherapy. Allergy: European Journal of Allergy and Clinical Immunology, 2021, 76, 456-470.	5.7	71
30	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
31	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
32	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
33	WGGAN: A wavelet-guided generative adversarial network for thermal image translation. , 2021, , 313-327.		9
34	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
35	Magnetic Dipole Two-Point Tensor Positioning Based on Magnetic Moment Constraints. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	13
36	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

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37	A Vertical Text Spotting Model for Trailer and Container Codes. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	1
38	Printed Sensor Technologies for Monitoring Applications in Smart Farming: A Review. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-19.	4.7	29
39	Deep Learning Thermal Image Translation for Night Vision Perception. ACM Transactions on Intelligent Systems and Technology, 2021, 12, 1-18.	4.5	20
40	Investigation on the Mathematical Relation Model of Structural Reliability and Structural Robustness. Mathematical and Computational Applications, 2021, 26, 26.	1.3	0
41	Smart Valve Detection System for Water Distribution Networks. , 2021, , .		3
42	Quantification of pitting corrosion from thermography using deep neural networks. Review of Scientific Instruments, 2021, 92, 035116.	1.3	1
43	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
44	Automated Box Data Matching for Multi-Modal Magnetic Flux Leakage Inspection of Pipelines. IEEE Transactions on Magnetics, 2021, 57, 1-10.	2.1	5
45	RFID Sensing Technologies for Smart Agriculture. IEEE Instrumentation and Measurement Magazine, 2021, 24, 50-60.	1.6	35
46	A modular magneto-inductive sensor for low vector magnetic field measurements. Review of Scientific Instruments, 2021, 92, 085110.	1.3	1
47	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
48	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
49	Nonlinear ultrasonic testing and data analytics for damage characterization: A review. Measurement: Journal of the International Measurement Confederation, 2021, 186, 110155.	5.0	26
50	Measure point arrangement strategy for in-service continuous girder bridge SHM with consideration of structural robustness (Special Issue of ICAST 2019). Journal of Intelligent Material Systems and Structures, 2021, 32, 1095-1104.	2.5	1
51	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
52	Environment Prediction to Enhance the Navigation System of Water Pipeline Inspection Platforms. , 2021, , .		1
53	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
54	Theoretical analysis of Tsallis entropy-based quality measure for weighted averaging image fusion. Information Fusion, 2020, 58, 69-81.	19.1	6

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55	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
56	AIS data driven general vessel destination prediction: A random forest based approach. Transportation Research Part C: Emerging Technologies, 2020, 118, 102729.	7.6	38
57	Structural Robustness-based SHM Point Arrangement Strategy for In-service Cable-stayed Bridge Subjected to Cable Damage Effect. , 2020, , .		0
58	Compressed sensing based tuning algorithm for the sensor of proton precession magnetometers. Review of Scientific Instruments, 2020, 91, 085118.	1.3	3
59	GPU-Accelerated Tensor Decomposition for Moving Object Detection from Multimodal Imaging. , 2020, , .		5
60	Multi-source urban data fusion for property value assessment: A case study in Philadelphia. Neurocomputing, 2020, 404, 70-83.	5.9	30
61	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
62	CD23 expression on switched memory B cells bridges Tâ€B cell interaction in allergic rhinitis. Allergy: European Journal of Allergy and Clinical Immunology, 2020, 75, 2599-2612.	5.7	34
63	Internet of Things Empowered Smart Greenhouse Farming. IEEE Journal of Radio Frequency Identification, 2020, 4, 195-211.	2.3	89
64	Intelligent Fault Diagnosis of Multichannel Motorâ€Rotor System Based on Multimanifold Deep Extreme Learning Machine. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2177-2187.	5.8	61
65	A Variational Approach for Fusion of Panchromatic and Multispectral Images Using a New Spatialâ€Spectral Consistency Term. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 3421-3436.	4.9	4
66	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
67	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
68	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
69	Magneto-Inductive Magnetic Gradient Tensor System for Detection of Ferromagnetic Objects. IEEE Magnetics Letters, 2020, 11, 1-5.	1.1	11
70	Magnetic gradient full-tensor fingerprints for metallic objects detection of a security system based on anisotropic magneto-resistance sensor arrays. AIP Advances, 2020, 10, .	1.3	7
71	Analysis of Magnetic-Flux Leakage (MFL) Data for Pipeline Corrosion Assessment. IEEE Transactions on Magnetics, 2020, 56, 1-15.	2.1	63
72	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

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73	Water pipe valve detection by using deep neural networks. , 2020, , .		9
74	A Nonlinear Regression Application via Machine Learning Techniques for Geomagnetic Data Reconstruction Processing. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 128-140.	6.3	44
75	Temperature Sensing and Evaluation of Thermal Effects on Battery Packs for Automotive Applications. IEEE Sensors Journal, 2019, 19, 11634-11645.	4.7	11
76	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
77	Image Quality Assessment through Contour Detection. , 2019, , .		1
78	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
79	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
80	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
81	MR and PET Image Fusion Using Nonparametric Bayesian Joint Dictionary Learning. , 2019, 3, 1-4.		5
82	Adaptive pre-whiten filtering for the free induction decay transversal signal in weak magnetic detection. Review of Scientific Instruments, 2019, 90, .	1.3	9
83	Pipeline Leak Detection and Location Based on Model-Free Isolation of Abnormal Acoustic Signals. Energies, 2019, 12, 3172.	3.1	14
84	Pressure Signal Enhancement of Slowly Increasing Leaks Using Digital Compensator Based on Acoustic Sensor. Sensors, 2019, 19, 4317.	3.8	2
85	Parameterizing Magnetic Flux Leakage Data for Pipeline Corrosion Defect Retrieval. , 2019, , .		3
86	In-service bridge SHM point arrangement with consideration of structural robustness. Journal of Civil Structural Health Monitoring, 2019, 9, 543-554.	3.9	5
87	An Adaptive Approach for Ice Detection in Wind Turbine With Inductive Transfer Learning. IEEE Access, 2019, 7, 122205-122213.	4.2	18
88	Allergen immunotherapy improves defective follicular regulatory T cells in patients with allergic rhinitis. Journal of Allergy and Clinical Immunology, 2019, 144, 118-128.	2.9	72
89	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
90	Elderly Fall Detection with an Accelerometer Using Lightweight Neural Networks. Electronics (Switzerland), 2019, 8, 1354.	3.1	28

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91	Stereo vision-based vehicle localization in point cloud maps using multiswarm particle swarm optimization. <i>Signal, Image and Video Processing</i> , 2019, 13, 805-812.	2.7	8
92	Peer-Dependence Valuation Model for Real Estate Appraisal. <i>Data-Enabled Discovery and Applications</i> , 2019, 3, 1.	1.2	4
93	Matching pipeline In-line inspection data for corrosion characterization. <i>NDT and E International</i> , 2019, 101, 44-52.	3.7	24
94	Pulsed Eddy Current Data Analysis for the Characterization of the Second-Layer Discontinuities. <i>Journal of Nondestructive Evaluation</i> , 2019, 38, 1.	2.4	10
95	Concrete performance prediction using boosting smooth transition regression trees (BooST). , 2019, , .		2
96	Multisource deep learning for situation awareness. , 2019, , .		2
97	Real-time road surface and semantic lane estimation using deep features. <i>Signal, Image and Video Processing</i> , 2018, 12, 1133-1140.	2.7	16
98	Application of Hilbert-Huang Decomposition to Reduce Noise and Characterize for NMR FID Signal of Proton Precession Magnetometer. <i>Instruments and Experimental Techniques</i> , 2018, 61, 55-64.	0.5	10
99	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
100	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
101	IR2VI: Enhanced Night Environmental Perception by Unsupervised Thermal Image Translation. , 2018, , .		18
102	Deep Learning Measures of Effectiveness. , 2018, , .		11
103	Apparatus and method for efficient sampling of critical parameters demonstrated by monitoring an Overhauser geomagnetic sensor. <i>Review of Scientific Instruments</i> , 2018, 89, 125109.	1.3	12
104	Estimation of Steering Angle and Collision Avoidance for Automated Driving Using Deep Mixture of Experts. <i>IEEE Transactions on Intelligent Vehicles</i> , 2018, 3, 571-584.	12.7	8
105	A comprehensive study on the weak magnetic sensor character of different geometries for proton precession magnetometer. <i>Journal of Instrumentation</i> , 2018, 13, T09003-T09003.	1.2	8
106	Algebraic Multi-Grid Based Multi-Focus Image Fusion Using Watershed Algorithm. <i>IEEE Access</i> , 2018, 6, 47082-47091.	4.2	12
107	The role of data fusion in predictive maintenance using digital twin. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	163
108	Wind turbine ice assessment through inductive transfer learning. , 2018, , .		8

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109	What can machine learning do for geomagnetic data processing? A reconstruction application. , 2018, , .		0
110	Prediction of pipe performance withÂstacking ensemble learning basedÂApproaches. Journal of Intelligent and Fuzzy Systems, 2018, 34, 3845-3855.	1.4	20
111	Soil-pipe interaction modeling for pipe behavior prediction with super learning based methods. , 2018, , .		1
112	Experimenting capacitive sensing technique for structural integrity assessment. , 2017, , .		4
113	Prognostics of damage growth in composite materials using machine learning techniques. , 2017, , .		24
114	Statistical comparison of image fusion algorithms: Recommendations. Information Fusion, 2017, 36, 251-260.	19.1	73
115	Fusion of thermal and visible cameras for the application of pedestrian detection. Signal, Image and Video Processing, 2017, 11, 517-524.	2.7	22
116	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
117	Pipeline Leak Detection by Using Time-Domain Statistical Features. IEEE Sensors Journal, 2017, 17, 6431-6442.	4.7	91
118	Noise characterization for the FID signal from proton precession magnetometer. Journal of Instrumentation, 2017, 12, P07019-P07019.	1.2	24
119	Advances on Sensing Technologies for Smart Cities and Power Grids: A Review. IEEE Sensors Journal, 2017, 17, 7596-7610.	4.7	136
120	Guest Editorial Special Issue on Smart Sensors for Smart Grids and Smart Cities. IEEE Sensors Journal, 2017, 17, 7594-7595.	4.7	6
121	Multi-Sensor Fusion Based on Local Activity Measure. IEEE Sensors Journal, 2017, 17, 7487-7496.	4.7	6
122	Regression model for appraisal of real estate using recurrent neural network and boosting tree. , 2017, , .		18
123	Ontology-Based Driving Decision Making: A Feasibility Study at Uncontrolled Intersections. IEICE Transactions on Information and Systems, 2017, E100.D, 1425-1439.	0.7	28
124	Prediction of Pipe Performance with Ensemble Machine Learning Based Approaches. , 2017, , .		5
125	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
126	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

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127	ISO/IEC/IEEE P21451-001 standard for signal treatment of sensory data. , 2016, , .		1
128	Real-Time Lane Estimation Using Deep Features and Extra Trees Regression. Lecture Notes in Computer Science, 2016, , 721-733.	1.3	40
129	Fast decision making using ontology-based knowledge base. , 2016, , .		25
130	An Adaptive Pansharpening Method by Using Weighted Least Squares Filter. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 18-22.	3.1	35
131	Nasal IL-4+CXCR5+CD4+ T follicular helper cell counts correlate with local IgE production in eosinophilic nasal polyps. Journal of Allergy and Clinical Immunology, 2016, 137, 462-473.	2.9	64
132	Pedestrian detection from thermal images: A sparse representation based approach. Infrared Physics and Technology, 2016, 76, 157-167.	2.9	26
133	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
134	Experiments on battery capacity estimation. , 2015, , .		2
135	Automatic calibration and registration of lidar and stereo camera without calibration objects. , 2015, , .		7
136	A novel image fusion framework for night-vision navigation and surveillance. Signal, Image and Video Processing, 2015, 9, 165-175.	2.7	32
137	A new contrast based multimodal medical image fusion framework. Neurocomputing, 2015, 157, 143-152.	5.9	145
138	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
139	Pedestrian detection in thermal images using adaptive fuzzy C-means clustering and convolutional neural networks. , 2015, , .		76
140	Saliency Map Generation by the Convolutional Neural Network for Real-Time Traffic Light Detection Using Template Matching. IEEE Transactions on Computational Imaging, 2015, 1, 159-173.	4.4	59
141	Using Algorithms on Smart Transducer: An IEEE Standard Perspective. IEEE Sensors Journal, 2015, 15, 2523-2530.	4.7	7
142	Classification of defects with ensemble methods in the automated visual inspection of sewer pipes. Pattern Analysis and Applications, 2015, 18, 263-276.	4.6	35
143	Industrial Inspection with Open Eyes: Advance with Machine Vision Technology. Advances in Computer Vision and Pattern Recognition, 2015, , 1-37.	1.3	3
144	Computational Intelligence for Urban Infrastructure Condition Assessment: Water Transmission and Distribution Systems. IEEE Sensors Journal, 2014, 14, 4122-4133.	4.7	16

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145	Use of Sparse Representation for Pedestrian Detection in Thermal Images. , 2014, , .		11
146	Remote sensing image fusion through kernel estimation based on energy minimization. , 2014, , .		0
147	Traffic light recognition in varying illumination using deep learning and saliency map. , 2014, , .		77
148	Pedestrian detection from thermal images with a scattered difference of directional gradients feature descriptor. , 2014, , .		7
149	Normalizing transducer signals: An overview of a proposed standard. , 2014, , .		25
150	Data Fusion for the Diagnostics, Prognostics, and Health Management of Aircraft Systems. Advances in Intelligent Systems and Computing, 2014, , 389-399.	0.6	2
151	Directive Contrast Based Multimodal Medical Image Fusion in NSCT Domain. IEEE Transactions on Multimedia, 2013, 15, 1014-1024.	7.2	361
152	Human visual system inspired multi-modal medical image fusion framework. Expert Systems With Applications, 2013, 40, 1708-1720.	7.6	105
153	Image fusion based on a sparse linear system. , 2013, , .		1
154	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
155	Validation of Strain Gauges for Structural Health Monitoring With Bayesian Belief Networks. IEEE Sensors Journal, 2013, 13, 400-407.	4.7	19
156	Seismic risk analysis using Bayesian belief networks. , 2013, , 175-208.		11
157	Prediction of lateral spread displacement: data-driven approaches. Bulletin of Earthquake Engineering, 2012, 10, 1431-1454.	4.1	24
158	Image fusion of the Terahertz-visual NAECON Grand Challenge data. , 2012, , .		11
159	The use of laser range finder on a robotic platform for pipe inspection. Mechanical Systems and Signal Processing, 2012, 31, 246-257.	8.0	39
160	State-of-the-Art Review of Technologies for Pipe Structural Health Monitoring. IEEE Sensors Journal, 2012, 12, 1987-1992.	4.7	88
161	An automated vision system for container-code recognition. Expert Systems With Applications, 2012, 39, 2842-2855.	7.6	41
162	Improving laser image resolution for pitting corrosion measurement using Markov random field method. Automation in Construction, 2012, 21, 172-183.	9.8	20

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163	Processing thermography images for pitting corrosion quantification on small diameter ductile iron pipe. NDT and E International, 2012, 47, 105-115.	3.7	30
164	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
165	The use of the contrast sensitivity function in the perceptual quality assessment of fused image. International Journal of Image and Data Fusion, 2011, 2, 93-103.	1.7	1
166	LANDSAT satellite image fusion metric assessment. , 2011, , .		14
167	Pipe performance analysis with nonparametric regression. Proceedings of SPIE, 2011, , .	0.8	1
168	Learning-based super resolution using kernel partial least squares. Image and Vision Computing, 2011, 29, 394-406.	4.5	61
169	Single-image super-resolution based on Markov random field and contourlet transform. Journal of Electronic Imaging, 2011, 20, 023005.	0.9	29
170	Fusion with Infrared Images for an Improved Performance and Perception. , 2011, , 81-108.		1
171	Segmentation of laser range image for pipe anomaly detection. Proceedings of SPIE, 2010, , .	0.8	0
172	Characterization of pitting corrosion on small diameter ductile iron pipe using thermography. Proceedings of SPIE, 2010, , .	0.8	0
173	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
174	Earthquake induced damage classification for reinforced concrete buildings. Structural Safety, 2010, 32, 154-164.	5.3	75
175	Exploring the Relationship between Soil Properties and Deterioration of Metallic Pipes Using Predictive Data Mining Methods. Journal of Computing in Civil Engineering, 2010, 24, 289-301.	4.7	29
176	Concealed Weapon Detection: A Data Fusion Perspective. Journal of Aerospace Computing, Information, and Communication, 2010, 7, 196-209.	0.8	6
177	Quantifying Surface Deformation With the Edge of Light-Enhanced Visual Inspection. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 416-422.	4.7	7
178	Characterization of surface deformation with the Edge of Light™ technique. Machine Vision and Applications, 2008, 19, 35-42.	2.7	3
179	A feature-based metric for the quantitative evaluation of pixel-level image fusion. Computer Vision and Image Understanding, 2008, 109, 56-68.	4.7	65
180	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

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181	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
182	Combining multiple nondestructive inspection images with a generalized additive model. Measurement Science and Technology, 2008, 19, 085701.	2.6	10
183	Phase congruence measurement for image similarity assessment. Pattern Recognition Letters, 2007, 28, 166-172.	4.2	76
184	Survey: State of the Art in NDE Data Fusion Techniques. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 2435-2451.	4.7	92
185	Context enhancement through infrared vision: a modified fusion scheme. Signal, Image and Video Processing, 2007, 1, 293-301.	2.7	22
186	A DATA FUSION FRAMEWORK FOR MULTIPLE NONDESTRUCTIVE INSPECTION IMAGES. , 2007, , 385-402.		1
187	Exfoliation detection using structurally integrated piezoelectric ultrasonic transducers. Insight: Non-Destructive Testing and Condition Monitoring, 2006, 48, 738-742.	0.6	0
188	Application of Dempster-Shafer theory for fusion of lap joints inspection data. , 2006, 6176, 337.		3
189	Automated rivet detection in the EOL image for aircraft lap joints inspection. NDT and E International, 2006, 39, 441-448.	3.7	16
190	Concealed weapon detection and visualization in a synthesized image. Pattern Analysis and Applications, 2006, 8, 375-389.	4.6	20
191	<title>Fusion of visual and eddy current inspection results for the evaluation of corrosion damage in aircraft lap joints</title>. , 2005, 5768, 157.		2
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