Senxiang Lu

List of Publications by Year
in descending order

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21	545	933447 10	940533 16
papers	citations	h-index	g-index

21	21	21	403
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Accurate Identification for 3-D Position of Hybrid Defects in Ferromagnetic Pipe Using External Remote Field Eddy Current Testing. IEEE Transactions on Magnetics, 2022, 58, 1-10.	2.1	9
2	Anomaly detection of industrial multi-sensor signals based on enhanced spatiotemporal features. Neural Computing and Applications, 2022, 34, 8465-8477.	5.6	7
3	A Single-Stage Enhancement-Identification Framework for Pipeline MFL Inspection. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13.	4.7	6
4	Multisensor Fusion for Magnetic Flux Leakage Defect Characterization Under Information Incompletion. IEEE Transactions on Industrial Electronics, 2021, 68, 4382-4392.	7.9	35
5	Domain Knowledge-Based Deep-Broad Learning Framework for Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2021, 68, 3454-3464.	7.9	62
6	Fault Diagnosis of Rod Pump Oil Well Based on Support Vector Machine Using Preprocessed Indicator Diagram. , 2021, , .		6
7	Location Detection Method of Detector in Pipeline Using VMD Algorithm and Machine Learning Classifier. Electronics (Switzerland), 2021, 10, 1436.	3.1	1
8	An Accurate Object Detector With Effective Feature Extraction by Intrinsic Prior Knowledge. IEEE Access, 2020, 8, 130607-130615.	4.2	2
9	A Conditional Variational Autoencoder Algorithm for Reconstructing Defect Data of Magnetic Flux Leakage. , 2020, , .		0
10	Wind Turbine Anomaly Detection Based on SCADA Data Mining. Electronics (Switzerland), 2020, 9, 751.	3.1	14
11	Anomaly Detection of Complex MFL Measurements Using Low-Rank Recovery in Pipeline Transportation Inspection. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6776-6786.	4.7	23
12	A Time Weight Convolutional Neural Network for Positioning Internal Detector. , 2019, , .		1
13	An Estimation Method of Defect Size From MFL Image Using Visual Transformation Convolutional Neural Network. IEEE Transactions on Industrial Informatics, 2019, 15, 213-224.	11.3	107
14	Quick Reconstruction of Arbitrary Pipeline Defect Profiles From MFL Measurements Employing Modified Harmony Search Algorithm. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2200-2213.	4.7	47
15	A Sensor Liftoff Modification Method of Magnetic Flux Leakage Signal for Defect Profile Estimation. IEEE Transactions on Magnetics, 2017, 53, 1-13.	2.1	41
16	Injurious or Noninjurious Defect Identification From MFL Images in Pipeline Inspection Using Convolutional Neural Network. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1883-1892.	4.7	109
17	Precise Inversion for the Reconstruction of Arbitrary Defect Profiles Considering Velocity Effect in Magnetic Flux Leakage Testing. IEEE Transactions on Magnetics, 2017, 53, 1-12.	2.1	28
18	Extracting defect signal from the MFL signal of seamless pipeline. , 2017, , .		3

#	Article	IF	Citations
19	Fast reconstruction of defect profiles from magnetic flux leakage measurements using a RBFNN based error adjustment methodology. IET Science, Measurement and Technology, 2017, 11, 262-269.	1.6	27
20	Convolution neural network for classification of magnetic flux leakage response segments. , 2017, , .		7
21	Defect profile reconstruction from MFL signals based on a specially-designed genetic taboo search algorithm. Insight: Non-Destructive Testing and Condition Monitoring, 2016, 58, 380-387.	0.6	10