Eduardo Cabal-Yepez

List of Publications by Year
in descending order

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54	1,643	331670	302126
papers	citations	21 h-index	39 g-index

59	59	59	1445
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Application of High-Resolution Spectral Analysis for Identifying Multiple Combined Faults in Induction Motors. IEEE Transactions on Industrial Electronics, 2011, 58, 2002-2010.	7.9	190
2	Techniques and methodologies for power quality analysis and disturbances classification in power systems: a review. IET Generation, Transmission and Distribution, 2011, 5, 519.	2.5	185
3	Reconfigurable Monitoring System for Time-Frequency Analysis on Industrial Equipment Through STFT and DWT. IEEE Transactions on Industrial Informatics, 2013, 9, 760-771.	11.3	144
4	FPGA-Based Online Detection of Multiple Combined Faults in Induction Motors Through Information Entropy and Fuzzy Inference. IEEE Transactions on Industrial Electronics, 2011, 58, 5263-5270.	7.9	124
5	Novel Methodology for Online Half-Broken-Bar Detection on Induction Motors. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 1690-1698.	4.7	85
6	A Fast Image Dehazing Algorithm Using Morphological Reconstruction. IEEE Transactions on Image Processing, 2019, 28, 2357-2366.	9.8	83
7	FPGA-Based Multiple-Channel Vibration Analyzer for Industrial Applications in Induction Motor Failure Detection. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 63-72.	4.7	64
8	Novel FPGA-based Methodology for Early Broken Rotor Bar Detection and Classification Through Homogeneity Estimation. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1760-1769.	4.7	52
9	FPGA-based entropy neural processor for online detection of multiple combined faults on induction motors. Mechanical Systems and Signal Processing, 2012, 30, 123-130.	8.0	43
10	Real-time SVD-based detection of multiple combined faults in induction motors. Computers and Electrical Engineering, 2014, 40, 2193-2203.	4.8	40
11	A Real-Time Smart Sensor for High-Resolution Frequency Estimation in Power Systems. Sensors, 2009, 9, 7412-7429.	3.8	39
12	Open-architecture system based on a reconfigurable hardwareâ€“software multi-agent platform for CNC machines. Journal of Systems Architecture, 2010, 56, 407-418.	4.3	38
13	FPGA-Based Vibration Analyzer for Continuous CNC Machinery Monitoring With Fused FFT-DWT Signal Processing. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 3184-3194.	4.7	34
14	Startup current analysis of incipient broken rotor bar in induction motors using high-resolution spectral analysis. , 2011, , .		33
15	Application of high-resolution spectral analysis for identifying faults in induction motors by means of sound. JVC/Journal of Vibration and Control, 2012, 18, 1585-1594.	2.6	31
16	EMD-Based Feature Extraction for Power Quality Disturbance Classification Using Moments. Energies, 2016, 9, 565.	3.1	27
17	Realâ€time condition monitoring on VSDâ€fed induction motors through statistical analysis and synchronous speed observation. International Transactions on Electrical Energy Systems, 2015, 25, 1657-1672.	1.9	26
18	Single-parameter fault identification through information entropy analysis at the startup-transient current in induction motors. Electric Power Systems Research, 2012, 89, 64-69.	3.6	25

#	Article	IF	Citations
19	Multiple Fault Detection in Induction Motors through Homogeneity and Kurtosis Computation. Energies, 2022, 15, 1541.	3.1	25
20	Image dehazing using morphological opening, dilation and Gaussian filtering. Signal, Image and Video Processing, 2018, 12, 1329-1335.	2.7	24
21	Novel Oversampling Technique for Improving Signal-to-Quantization Noise Ratio on Accelerometer-Based Smart Jerk Sensors in CNC Applications. Sensors, 2009, 9, 3767-3789.	3.8	22
22	Sensorless jerk monitoring using an adaptive antisymmetric high-order FIR filter. Mechanical Systems and Signal Processing, 2009, 23, 2383-2394.	8.0	21
23	Automatic Early Broken-Rotor-Bar Detection and Classification Using Otsu Segmentation. IEEE Access, 2020, 8, 112624-112632.	4.2	20
24	Reconfigurable FPGA-Based Unit for Singular Value Decomposition of Large m x n Matrices. , 2011, , .		19
25	Fast Single Image Defogging With Robust Sky Detection. IEEE Access, 2020, 8, 149176-149189.	4.2	19
26	Open-Circuit Fault Diagnosis in Power Inverters Through Currents Analysis in Time Domain. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	19
27	Broken Rotor Bar Detection in Induction Motors through Contrast Estimation. Sensors, 2021, 21, 7446.	3.8	18
28	Broken-Rotor-Bar Detection Through STFT and Windowing Functions. , 2019, , .		17
29	FPGA-Based Online PQD Detection and Classification through DWT, Mathematical Morphology and SVD. Energies, 2018, 11, 769.	3.1	16
30	Analysis of Data Sets With Learning Conflicts for Machine Learning. IEEE Access, 2018, 6, 45062-45070.	4.2	16
31	Novel hardware processing unit for dynamic on-line entropy estimation of discrete time information. , 2010, 20, 337-346.		14
32	FPGA-Based Smart Sensor for Online Displacement Measurements Using a Heterodyne Interferometer. Sensors, 2011, 11, 7710-7723.	3.8	13
33	Reconfigurable SoC-Based Smart Sensor for Wavelet and Wavelet Packet Analysis. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 2458-2468.	4.7	11
34	FPGA-based system for frequency detection of the main periodic component in time series information. , 2008, 18, 1029-1044.		8
35	Multiple fault detection through information entropy analysis in ASD-fed induction motors. , 2011, , .		8
36	FPGA-Based Online Induction Motor Multiple-Fault Detection with Fused FFT and Wavelet Analysis. , 2009, , .		7

#	Article	IF	Citations
37	Experimental system for teaching induction motor faults during the startup transient and steady state. Computer Applications in Engineering Education, 2014, 22, 33-38.	3.4	6
38	FPGA-based methodology for depth-of-field extension in a single image. , 2017, 70, 14-23.		6
39	Walshâ€“Hadamard Domain-Based Intelligent Online Fault Diagnosis of Broken Rotor Bars in Induction Motors. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	6
40	Real-time emulator of an induction motor: FPGA-based implementation. , 2012, , .		5
41	Stator Fault Detection in Induction Motors by Autoregressive Modeling. Mathematical Problems in Engineering, 2016, 2016, 1-7.	1.1	5
42	Reconfigurable instrument for power quality monitoring in 3-phase power systems. , 2011, , .		4
43	Extended depth of field in images through complex amplitude pre-processing and optimized digital post-processing. Computers and Electrical Engineering, 2014, 40, 29-40.	4.8	4
44	Statistical multidirectional line dark channel for singleâ€image dehazing. IET Image Processing, 2019, 13, 2877-2887.	2.5	4
45	FPGA-based reconfigurable unit for image encryption using orthogonal functions. , 2016, , .		3
46	Mathematical Models to Predict and Analyze the Energy Consumption of a Domestic Refrigerator for Different Position of the Shelves. IEEE Access, 2018, 6, 68882-68891.	4.2	3
47	Broken Rotor Bar Detection by Image Texture Features and Fuzzy Logic. , 2019, , .		3
48	Differential Neural Networks (DNN). IEEE Access, 2020, 8, 156530-156538.	4.2	3
49	On removing conflicts for machine learning. Expert Systems With Applications, 2022, 206, 117835.	7.6	3
50	Novel methodology for improving performance of sensorless speed observers in induction motors at variable load conditions. , 2012, , .		2
51	Smart sensor for electrical machine monitoring through statistical analysis. , 2012, , .		1
52	Harmonic component estimation through DFSWT for active power filter applications. , 2013, , .		1
53	Artificial Intelligence to Design a Mask Insensible to the Distance From the Camera to the Scene Objects. IEEE Access, 2019, 7, 79934-79943.	4.2	1
54	Broken Rotor Bar Detection in Induction Motors through Information Entropy Analysis on the Start-up Transient and Steady-State Current Signals. , 2021, , .		1