

Eduardo Cabal-Yepez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/910895/publications.pdf>

Version: 2024-02-01

54
papers

1,643
citations

331670

21
h-index

302126

39
g-index

59
all docs

59
docs citations

59
times ranked

1445
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | Multiple Fault Detection in Induction Motors through Homogeneity and Kurtosis Computation. Energies, 2022, 15, 1541. | 3.1 | 25 |
| 3 | On removing conflicts for machine learning. Expert Systems With Applications, 2022, 206, 117835. | 7.6 | 3 |
| 4 | 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 |
| 5 | Broken Rotor Bar Detection in Induction Motors through Information Entropy Analysis on the Start-up Transient and Steady-State Current Signals. , 2021, , . | | 1 |
| 6 | Broken Rotor Bar Detection in Induction Motors through Contrast Estimation. Sensors, 2021, 21, 7446. | 3.8 | 18 |
| 7 | Fast Single Image Defogging With Robust Sky Detection. IEEE Access, 2020, 8, 149176-149189. | 4.2 | 19 |
| 8 | Differential Neural Networks (DNN). IEEE Access, 2020, 8, 156530-156538. | 4.2 | 3 |
| 9 | Automatic Early Broken-Rotor-Bar Detection and Classification Using Otsu Segmentation. IEEE Access, 2020, 8, 112624-112632. | 4.2 | 20 |
| 10 | Broken-Rotor-Bar Detection Through STFT and Windowing Functions. , 2019, , . | | 17 |
| 11 | 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 |
| 12 | Statistical multidirectional line dark channel for singleâ€“image dehazing. IET Image Processing, 2019, 13, 2877-2887. | 2.5 | 4 |
| 13 | Broken Rotor Bar Detection by Image Texture Features and Fuzzy Logic. , 2019, , . | | 3 |
| 14 | A Fast Image Dehazing Algorithm Using Morphological Reconstruction. IEEE Transactions on Image Processing, 2019, 28, 2357-2366. | 9.8 | 83 |
| 15 | Image dehazing using morphological opening, dilation and Gaussian filtering. Signal, Image and Video Processing, 2018, 12, 1329-1335. | 2.7 | 24 |
| 16 | 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 |
| 17 | FPGA-Based Online PQD Detection and Classification through DWT, Mathematical Morphology and SVD. Energies, 2018, 11, 769. | 3.1 | 16 |
| 18 | Analysis of Data Sets With Learning Conflicts for Machine Learning. IEEE Access, 2018, 6, 45062-45070. | 4.2 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | 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 |
| 20 | FPGA-based methodology for depth-of-field extension in a single image. , 2017, 70, 14-23. | | 6 |
| 21 | Stator Fault Detection in Induction Motors by Autoregressive Modeling. Mathematical Problems in Engineering, 2016, 2016, 1-7. | 1.1 | 5 |
| 22 | EMD-Based Feature Extraction for Power Quality Disturbance Classification Using Moments. Energies, 2016, 9, 565. | 3.1 | 27 |
| 23 | FPGA-based reconfigurable unit for image encryption using orthogonal functions. , 2016, , . | | 3 |
| 24 | Real-time condition monitoring on VSD-fed induction motors through statistical analysis and synchronous speed observation. International Transactions on Electrical Energy Systems, 2015, 25, 1657-1672. | 1.9 | 26 |
| 25 | 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 |
| 26 | 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 |
| 27 | Real-time SVD-based detection of multiple combined faults in induction motors. Computers and Electrical Engineering, 2014, 40, 2193-2203. | 4.8 | 40 |
| 28 | 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 |
| 29 | Harmonic component estimation through DFSWT for active power filter applications. , 2013, , . | | 1 |
| 30 | Reconfigurable SoC-Based Smart Sensor for Wavelet and Wavelet Packet Analysis. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 2458-2468. | 4.7 | 11 |
| 31 | 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 |
| 32 | Novel methodology for improving performance of sensorless speed observers in induction motors at variable load conditions. , 2012, , . | | 2 |
| 33 | Smart sensor for electrical machine monitoring through statistical analysis. , 2012, , . | | 1 |
| 34 | Real-time emulator of an induction motor: FPGA-based implementation. , 2012, , . | | 5 |
| 35 | 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 |
| 36 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Reconfigurable FPGA-Based Unit for Singular Value Decomposition of Large $m \times n$ Matrices. , 2011, , . | | 19 |
| 38 | Startup current analysis of incipient broken rotor bar in induction motors using high-resolution spectral analysis. , 2011, , . | | 33 |
| 39 | Multiple fault detection through information entropy analysis in ASD-fed induction motors. , 2011, , . | | 8 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | Reconfigurable instrument for power quality monitoring in 3-phase power systems. , 2011, , . | | 4 |
| 44 | FPGA-Based Smart Sensor for Online Displacement Measurements Using a Heterodyne Interferometer. Sensors, 2011, 11, 7710-7723. | 3.8 | 13 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | Novel hardware processing unit for dynamic on-line entropy estimation of discrete time information. , 2010, 20, 337-346. | | 14 |
| 49 | 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 |
| 50 | Novel Methodology for Online Half-Broken-Bar Detection on Induction Motors. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 1690-1698. | 4.7 | 85 |
| 51 | Sensorless jerk monitoring using an adaptive antisymmetric high-order FIR filter. Mechanical Systems and Signal Processing, 2009, 23, 2383-2394. | 8.0 | 21 |
| 52 | A Real-Time Smart Sensor for High-Resolution Frequency Estimation in Power Systems. Sensors, 2009, 9, 7412-7429. | 3.8 | 39 |
| 53 | FPGA-Based Online Induction Motor Multiple-Fault Detection with Fused FFT and Wavelet Analysis. , 2009, , . | | 7 |
| 54 | FPGA-based system for frequency detection of the main periodic component in time series information. , 2008, 18, 1029-1044. | | 8 |