# Miguel Delgado Prieto

List of Publications by Year
in descending order

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|---|---|---|---|
| 74 papers | 1,428 citations | 535685 17 h-index | 445137 33 g-index |
| 75 all docs | 75 docs citations | 75 times ranked | 1614 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Advances in Power Quality Analysis Techniques for Electrical Machines and Drives: A Review. Energies, 2022, 15, 1909. | 1.6 | 12 |
| 2 | A Novel Deep Learning-Based Diagnosis Method Applied to Power Quality Disturbances. Energies, 2021, 14, 2839. | 1.6 | 17 |
| 3 | Deep-Compact-Clustering Based Anomaly Detection Applied to Electromechanical Industrial Systems. Sensors, 2021, 21, 5830. | 2.1 | 9 |
| 4 | Diagnosis Methodology Based on Deep Feature Learning for Fault Identification in Metallic, Hybrid and Ceramic Bearings. Sensors, 2021, 21, 5832. | 2.1 | 22 |
| 5 | Anomaly Detection in Electromechanical Systems by means of Deep-Autoencoder. , 2021, , . | | 2 |
| 6 | Defect reconstruction by non-destructive testing with laser induced ultrasonic detection. Ultrasonics, 2020, 101, 106000. | 2.1 | 31 |
| 7 | Incremental novelty detection and fault identification scheme applied to a kinematic chain under non-stationary operation. ISA Transactions, 2020, 97, 76-85. | 3.1 | 7 |
| 8 | Predictive chiller operation: A data-driven loading and scheduling approach. Energy and Buildings, 2020, 208, 109639. | 3.1 | 25 |
| 9 | Deep-Learning-Based Methodology for Fault Diagnosis in Electromechanical Systems. Sensors, 2020, 20, 3949. | 2.1 | 26 |
| 10 | Support vector machine based novelty detection and FDD framework applied to building AHU systems. , 2020, , . | | 7 |
| 11 | Directional Ultrasound Source for Solid Materials Inspection: Diffraction Management in a Metallic Phononic Crystal. Sensors, 2020, 20, 6148. | 2.1 | 3 |
| 12 | Analysis of Machine Learning based Condition Monitoring Schemes Applied to Complex Electromechanical Systems. , 2020, , . | | 1 |
| 13 | An acoustic emission activity detection method based on short-term waveform features: Application to metallic components under uniaxial tensile test. Mechanical Systems and Signal Processing, 2020, 142, 106753. | 4.4 | 17 |
| 14 | Industrial Data-Driven Monitoring Based on Incremental Learning Applied to the Detection of Novel Faults. IEEE Transactions on Industrial Informatics, 2020, 16, 5985-5995. | 7.2 | 28 |
| 15 | Active Learning based Laboratory towards Engineering Education 4.0. , 2019, , . | | 17 |
| 16 | Condition monitoring approach based on dimensionality reduction techniques for detecting power quality disturbances in cogeneration systems. , 2019, , . | | 2 |
| 17 | Performance Analysis of Acoustic Emission Hit Detection Methods Using Time Features. IEEE Access, 2019, 7, 71119-71130. | 2.6 | 14 |
| 18 | Fully Noncontact Hybrid NDT for 3D Defect Reconstruction Using SAFT Algorithm and 2D Apodization Window. Sensors, 2019, 19, 2138. | 2.1 | 13 |

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|---|---------|----|-----------|
| 19 | Multiple-fault detection and identification scheme based on hierarchical self-organizing maps applied to an electric machine. Applied Soft Computing Journal, 2019, 81, 105497. | 4.1 | 21 |
| 20 | Laser Ultrasound Inspection Based on Wavelet Transform and Data Clustering for Defect Estimation in Metallic Samples. Sensors, 2019, 19, 573. | 2.1 | 14 |
| 21 | Novel condition monitoring approach based on hybrid feature extraction and neural network for assessing multiple faults in electromechanical systems. , 2019, , . | | 0 |
| 22 | Activity-aware HVAC power demand forecasting. Energy and Buildings, 2018, 170, 15-24. | 3.1 | 30 |
| 23 | Thermography-Based Methodology for Multifault Diagnosis on Kinematic Chain. IEEE Transactions on Industrial Informatics, 2018, 14, 5553-5562. | 7.2 | 15 |
| 24 | Diagnosis methodology for identifying gearbox wear based on statistical time feature reduction. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 2711-2722. | 1.1 | 15 |
| 25 | Multimodal Forecasting Methodology Applied to Industrial Process Monitoring. IEEE Transactions on Industrial Informatics, 2018, 14, 494-503. | 7.2 | 16 |
| 26 | Condition Monitoring Strategy Based on Spectral Energy Estimation and Linear Discriminant Analysis Applied to an Induction Motor. , 2018, , . | | 2 |
| 27 | Incremental Learning Framework-based Condition Monitoring for Novelty Fault Identification Applied to Electromechanical Systems. , 2018, , . | | 2 |
| 28 | Novelty Detection based Condition Monitoring Scheme Applied to Electromechanical Systems. , 2018, , . | | 3 |
| 29 | Fault Detection and Identification Methodology Under an Incremental Learning Framework Applied to Industrial Machinery. IEEE Access, 2018, 6, 49755-49766. | 2.6 | 26 |
| 30 | Statistical data fusion as diagnosis scheme applied to a kinematic chain. , 2018, , . | | 2 |
| 31 | Chromatic Monitoring of Gear Mechanical Degradation Based on Acoustic Emission. IEEE Transactions on Industrial Electronics, 2017, 64, 8707-8717. | 5.2 | 11 |
| 32 | Multifault Diagnosis Method Applied to an Electric Machine Based on High-Dimensional Feature Reduction. IEEE Transactions on Industry Applications, 2017, 53, 3086-3097. | 3.3 | 70 |
| 33 | Diagnosis methodology based on statistical-time features and linear discriminant analysis applied to induction motors. , 2017, , . | | 4 |
| 34 | Vibration Signal Forecasting on Rotating Machinery by means of Signal Decomposition and Neurofuzzy Modeling. Shock and Vibration, 2016, 2016, 1-13. | 0.3 | 10 |
| 35 | Multiple-Fault Detection Methodology Based on Vibration and Current Analysis Applied to Bearings in Induction Motors and Gearboxes on the Kinematic Chain. Shock and Vibration, 2016, 2016, 1-13. | 0.3 | 55 |
| 36 | Vibration-Based Adaptive Novelty Detection Method for Monitoring Faults in a Kinematic Chain. Shock and Vibration, 2016, 2016, 1-12. | 0.3 | 4 |

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|---|---------|----|-----------|
| 37 | Occupancy forecasting for the reduction of HVAC energy consumption in smart buildings. , 2016, , . | | 0 |
| 38 | Intelligent monitoring of HVAC equipment by means of aggregated power analysis. , 2016, , . | | 0 |
| 39 | Industrial Time Series Modelling by Means of the Neo-Fuzzy Neuron. IEEE Access, 2016, 4, 6151-6160. | 2.6 | 18 |
| 40 | Disaggregation of HVAC load profiles for the monitoring of individual equipment. , 2016, , . | | 4 |
| 41 | Industrial process monitoring by means of recurrent neural networks and Self Organizing Maps. , 2016, , . | | 4 |
| 42 | Enhanced Industrial Machinery Condition Monitoring Methodology Based on Novelty Detection and Multi-Modal Analysis. IEEE Access, 2016, 4, 7594-7604. | 2.6 | 15 |
| 43 | Self-Powered Wireless Sensor Applied to Gear Diagnosis Based on Acoustic Emission. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 15-24. | 2.4 | 40 |
| 44 | Detection of Partial Demagnetization Fault in PMSMs Operating Under Nonstationary Conditions. IEEE Transactions on Magnetics, 2016, 52, 1-4. | 1.2 | 43 |
| 45 | Enhanced load forecasting methodology by means of probabilistic prediction intervals estimation. , 2015, , . | | 3 |
| 46 | Enhanced time series forecasting by means of dynamics boosting for industrial process monitoring. , 2015, , . | | 0 |
| 47 | Diagnosis method based on topology codification and neural network applied to an industrial camshaft. , 2015, , . | | 3 |
| 48 | Time series forecasting by means of SOM aided Fuzzy Inference Systems. , 2015, , . | | 2 |
| 49 | Remaining useful life estimation of ball bearings by means of monotonic score calibration. , 2015, , . | | 15 |
| 50 | Novelty detection methodology based on multi-modal one-class support vector machine. , 2015, , . | | 5 |
| 51 | Distributed neuro-fuzzy feature forecasting approach for condition monitoring. , 2014, , . | | 7 |
| 52 | Hierarchical classification scheme based on identification, isolation and analysis of conflictive regions. , 2014, , . | | 2 |
| 53 | Dedicated hierarchy of neural networks applied to bearings degradation assessment. , 2013, , . | | 11 |
| 54 | Intelligent sensor based on acoustic emission analysis applied to gear fault diagnosis. , 2013, , . | | 10 |

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|---|---------|-----|-----------|
| 55 | Bearing Fault Detection by a Novel Condition-Monitoring Scheme Based on Statistical-Time Features and Neural Networks. IEEE Transactions on Industrial Electronics, 2013, 60, 3398-3407. | 5.2 | 387 |
| 56 | Accurate bearing faults classification based on statistical-time features, curvilinear component analysis and neural networks. , 2012, , . | | 9 |
| 57 | A novel condition monitoring scheme for bearing faults based on Curvilinear Component Analysis and hierarchical neural networks. , 2012, , . | | 18 |
| 58 | Bearing fault diagnosis by EXIN CCA. , 2012, , . | | 2 |
| 59 | Detection of Demagnetization Faults in Surface-Mounted Permanent Magnet Synchronous Motors by Means of the Zero-Sequence Voltage Component. IEEE Transactions on Energy Conversion, 2012, 27, 42-51. | 3.7 | 135 |
| 60 | Study of hybrid active control strategies for the Bus-Pumping cancellation in the Half-Bridge Class-D audio power amplifiers. , 2011, , . | | 4 |
| 61 | Multidimensional intelligent diagnosis system based on Support Vector Machine Classifier. , 2011, , . | | 4 |
| 62 | Evaluation of feature calculation methods for electromechanical system diagnosis. , 2011, , . | | 5 |
| 63 | Feature Extraction of Demagnetization Faults in Permanent-Magnet Synchronous Motors Based on Box-Counting Fractal Dimension. IEEE Transactions on Industrial Electronics, 2011, 58, 1594-1605. | 5.2 | 78 |
| 64 | Bearings Fault Detection Using Inference Tools. , 2011, , . | | 3 |
| 65 | Dynamic model for AC and DC contactors â€" Simulation and experimental validation. Simulation Modelling Practice and Theory, 2011, 19, 1918-1932. | 2.2 | 20 |
| 66 | Motor fault classification system including a novel hybrid feature reduction methodology. , 2011, , . | | 4 |
| 67 | Condition monitoring system for characterization of electric motor ball bearings with distributed fault using fuzzy inference tools. , 2010, , . | | 11 |
| 68 | EMA fault detection using fuzzy inference tools. , 2010, , . | | 3 |
| 69 | On-line measurement device to detect bearing faults on electric motors. , 2009, , . | | 1 |
| 70 | Feed-Back Active Control for Half-Bridge Class-D audio amplifiers. , 2008, , . | | 3 |
| 71 | Induction machines fault simulation based on FEM modelling. , 2007, , . | | 1 |
| 72 | Evaluation of Novelty Detection Methods for Condition Monitoring applied to an Electromechanical System. , 0, , . | | 2 |

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|---|---------|----|-----------|
| 73 | Wavelet Transform Applied to Internal Defect Detection by Means of Laser Ultrasound. , 0, , . | | 3 |
| 74 | EMA Fault Detection Using Fuzzy Inference Tools. , 0, , . | | 0 |