Christian TutivÃ©n

List of Publications by Year
in descending order

28 papers	346 citations	1040056 9 h-index	940533 16 g-index
30 all docs	30 docs citations	30 times ranked	297 citing authors

#	Article	IF	Citations
1	Wind turbine fault detection and classification by means of image texture analysis. Mechanical Systems and Signal Processing, 2018, 107, 149-167.	8.0	81
2	Wind Turbine Multi-Fault Detection and Classification Based on SCADA Data. Energies, 2018, 11, 3018.	3.1	43
3	Wind Turbine Main Bearing Fault Prognosis Based Solely on SCADA Data. Sensors, 2021, 21, 2228.	3.8	43
4	Fault Diagnosis and Fault-Tolerant Control of Wind Turbines via a Discrete Time Controller with a Disturbance Compensator. Energies, 2015, 8, 4300-4316.	3.1	42
5	Vibration-Response-Only Structural Health Monitoring for Offshore Wind Turbine Jacket Foundations via Convolutional Neural Networks. Sensors, 2020, 20, 3429.	3.8	39
6	Early Fault Detection in the Main Bearing of Wind Turbines Based on Gated Recurrent Unit (GRU) Neural Networks and SCADA Data. IEEE/ASME Transactions on Mechatronics, 2022, 27, 5583-5593.	5.8	24
7	Unsupervised Damage Detection for Offshore Jacket Wind Turbine Foundations Based on an Autoencoder Neural Network. Sensors, 2021, 21, 3333.	3.8	18
8	Hysteresisâ€Based Design of Dynamic Reference Trajectories to Avoid Saturation in Controlled Wind Turbines. Asian Journal of Control, 2017, 19, 438-449.	3.0	14
9	Early Fault Diagnosis Strategy for WT Main Bearings Based on SCADA Data and One-Class SVM. Energies, 2022, 15, 4381.	3.1	9
10	Acceleration-based fault-tolerant control design of offshore fixed wind turbines. Structural Control and Health Monitoring, 2017, 24, e1920.	4.0	4
11	SCADA Data-Driven Wind Turbine Main Bearing Fault Prognosis Based on One-Class Support Vector Machines. Renewable Energy and Power Quality Journal, 0, 19, 338-343.	0.2	4
12	Siamese Neural Networks for Damage Detection and Diagnosis of Jacket-Type Offshore Wind Turbine Platforms. Mathematics, 2022, 10, 1131.	2.2	4
13	Hardware in the Loop Wind Turbine Simulator for Control System Testing. Advances in Industrial Control, 2014, , 449-466.	0.5	3
14	A Fault Detection method for pitch actuators faults in Wind Turbines. Renewable Energy and Power Quality Journal, 0, , 698-703.	0.2	3
15	Active fault tolerant control for pitch actuators failures tested in a hardware-in-the-loop simulation for wind turbine controllers. , 2015, , .		2
16	Fault detection and isolation of pitch actuator faults in a floating wind turbine. IFAC-PapersOnLine, 2018, 51, 480-487.	0.9	2
17	Wind Turbine Main Bearing Condition Monitoring via Convolutional Autoencoder Neural Networks. , 2021, , .		2
18	SCADA Data-Driven Wind Turbine Main Bearing Fault Prognosis Based on Principal Component Analysis. Journal of Physics: Conference Series, 2022, 2265, 032107.	0.4	2

#	ARTICLE	IF	CITATIONS
19	Passive fault tolerant control strategy in controlled wind turbines. , 2016, , .		1
20	Wind turbines controllers design based on the super-twisting algorithm. , 2016, , .		1
21	Wind Turbine Multi-Fault Detection based on SCADA Data via an AutoEncoder. Renewable Energy and Power Quality Journal, 0, 19, 487-492.	0.2	1
22	Damage Detection and Diagnosis for Offshore Wind Foundations. , 2020, , .		1
23	Development of a Wind Turbine Digital-Twin for failure prognosis: First Results. , 2022, , .		1
24	Detection of Jacket Offshore Wind Turbine Structural Damage using an 1D-Convolutional Neural Network with a Support Vector Machine Layer. Journal of Physics: Conference Series, 2022, 2265, 032088.	0.4	1
25	Wind Turbine Main Bearing Failure Prediction using a Hybrid Neural Network. Journal of Physics: Conference Series, 2022, 2265, 032090.	0.4	1
26	Convolutional Neural Network for Wind Turbine Failure Classification Based on SCADA Data. Renewable Energy and Power Quality Journal, 0, 19, 447-451.	0.2	0
27	Super-twisting controllers for wind turbines. Renewable Energy and Power Quality Journal, 0, , 684-689.	0.2	0
28	Variable structure strategy to avoid torque control saturation of a wind turbine in the presence of faults. Renewable Energy and Power Quality Journal, 0, , 222-228.	0.2	0