

# Paolo Castaldi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/361070/publications.pdf>

Version: 2024-02-01

75  
papers

969  
citations

516215

16  
h-index

500791

28  
g-index

83  
all docs

83  
docs citations

83  
times ranked

757  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fault Diagnosis of a Wind Turbine Benchmark via Identified Fuzzy Models. IEEE Transactions on Industrial Electronics, 2015, 62, 3775-3782.	5.2	89
2	Active actuator fault-tolerant control of a wind turbine benchmark model. International Journal of Robust and Nonlinear Control, 2014, 24, 1283-1303.	2.1	80
3	Differential geometry based active fault tolerant control for aircraft. Control Engineering Practice, 2014, 32, 227-235.	3.2	73
4	A new adaptive approach for on-line parameter and state estimation of induction motors. Control Engineering Practice, 2005, 13, 81-94.	3.2	50
5	Design of residual generators and adaptive filters for the FDI of aircraft model sensors. Control Engineering Practice, 2010, 18, 449-459.	3.2	47
6	Data-driven and adaptive control applications to a wind turbine benchmark model. Control Engineering Practice, 2013, 21, 1678-1693.	3.2	45
7	Fault detection and isolation for on-board sensors of a general aviation aircraft. International Journal of Adaptive Control and Signal Processing, 2006, 20, 381-408.	2.3	40
8	Identification of dynamic errors-in-variables models. Automatica, 1996, 32, 631-636.	3.0	37
9	Parameter estimation of induction motor at standstill with magnetic flux monitoring. IEEE Transactions on Control Systems Technology, 2005, 13, 386-400.	3.2	37
10	Data-Driven Approach for Wind Turbine Actuator and Sensor Fault Detection and Isolation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8301-8306.	0.4	25
11	Fault diagnosis for satellite sensors and actuators using nonlinear geometric approach and adaptive observers. International Journal of Robust and Nonlinear Control, 2019, 29, 5429-5455.	2.1	23
12	Wind turbine simulator fault diagnosis via fuzzy modelling and identification techniques. Sustainable Energy, Grids and Networks, 2015, 1, 45-52.	2.3	22
13	A comparison among different inversion methods for multi-exponential NMR relaxation data. Magnetic Resonance Imaging, 1994, 12, 209-212.	1.0	19
14	Active fault tolerant control of nonlinear systems: The cart-pole example. International Journal of Applied Mathematics and Computer Science, 2011, 21, 441-445.	1.5	19
15	Data-Driven Techniques for the Fault Diagnosis of a Wind Turbine Benchmark. International Journal of Applied Mathematics and Computer Science, 2018, 28, 247-268.	1.5	19
16	A new aerodynamic decoupled frequential FDIR methodology for satellite actuator faults. International Journal of Adaptive Control and Signal Processing, 2014, 28, 812-832.	2.3	17
17	Event reconstruction for KM3NeT/ORCA using convolutional neural networks. Journal of Instrumentation, 2020, 15, P10005-P10005.	0.5	15
18	Adaptive Fault-Tolerant Control Design Approach for a Wind Turbine Benchmark. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 319-324.	0.4	14

#	ARTICLE	IF	CITATIONS
19	Avionic Air Data Sensors Fault Detection and Isolation by means of Singular Perturbation and Geometric Approach. <i>Sensors</i> , 2017, 17, 2202.	2.1	14
20	Intelligent Fault Diagnosis Techniques Applied to an Offshore Wind Turbine System. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 783.	1.3	14
21	gSeaGen: The KM3NeT GENIE-based code for neutrino telescopes. <i>Computer Physics Communications</i> , 2020, 256, 107477.	3.0	14
22	Data-Driven Fault Diagnosis of a Wind Farm Benchmark Model. <i>Energies</i> , 2017, 10, 866.	1.6	13
23	Fault diagnosis and control reconfiguration for satellite reaction wheels. , 2010, , .		12
24	Satellite attitude active FTC based on Geometric Approach and RBF Neural Network. , 2013, , .		12
25	Model-free fault detection and isolation of a benchmark process control system based on multiple classifiers techniques- A comparative study. <i>Control Engineering Practice</i> , 2018, 73, 134-148.	3.2	12
26	An Experience of Project Based Learning in Aerospace Engineering. <i>IFAC-PapersOnLine</i> , 2019, 52, 484-489.	0.5	12
27	Hybrid Model-Based Fault Detection of Wind Turbine Sensors. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011, 44, 7061-7066.	0.4	11
28	A new longitudinal flight path control with adaptive wind shear estimation and compensation. , 2011, , .		10
29	Robust Trajectory Tracking for Underactuated VTOL Aerial Vehicles: Extended for Adaptive Disturbance Compensation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 3184-3189.	0.4	10
30	Design and performance evaluation of residual generators for the FDI of an aircraft. <i>International Journal of Automation and Computing</i> , 2007, 4, 156-163.	4.5	9
31	Residual Generator Fuzzy Identification for Wind Turbine Benchmark Fault Diagnosis. <i>Machines</i> , 2014, 2, 275-298.	1.2	9
32	Combined Geometric and Neural Network Approach to Generic Fault Diagnosis in Satellite Actuators and Sensors. <i>IFAC-PapersOnLine</i> , 2016, 49, 432-437.	0.5	9
33	Deep-sea deployment of the KM3NeT neutrino telescope detection units by self-unrolling. <i>Journal of Instrumentation</i> , 2020, 15, P11027-P11027.	0.5	9
34	Fuzzy and Neural Network Approaches to Wind Turbine Fault Diagnosis. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5035.	1.3	9
35	Architecture and performance of the KM3NeT front-end firmware. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2021, 7, .	1.0	9
36	Design and Analysis of Robust Fault Diagnosis Schemes for a Simulated Aircraft Model. <i>Journal of Control Science and Engineering</i> , 2008, 2008, 1-18.	0.8	8

#	ARTICLE	IF	CITATIONS
37	Novel Non-Model-Based Fault Detection and Isolation of Satellite Reaction Wheels Based on a Mixed-Learning Fusion Framework. IFAC-PapersOnLine, 2019, 52, 194-199.	0.5	8
38	Underwater Drone Architecture for Marine Digital Twin: Lessons Learned from SUSHI DROP Project. Sensors, 2022, 22, 744.	2.1	8
39	Data-Driven Design of Fuzzy Logic Fault Tolerant Control for a Wind Turbine Benchmark. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 108-113.	0.4	7
40	Fault tolerant control of an offshore wind turbine model via identified fuzzy prototypes. , 2014, , .		6
41	Soil Water Balance Model CRITERIA-ID in SWAMP Project: Proof of Concept. , 2018, , .		6
42	Robust Control Examples Applied to a Wind Turbine Simulated Model. Applied Sciences (Switzerland), 2018, 8, 29.	1.3	6
43	LEO satellite active FTC with aerodynamic disturbance decoupled fault diagnosis. European Journal of Control, 2020, 51, 76-94.	1.6	6
44	Robust quadrotor actuator fault detection and isolation in presence of environmental disturbances. , 2016, , .		6
45	Fault Tolerant Control Schemes for Nonlinear Models of Aircraft and Spacecraft Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13705-13710.	0.4	5
46	Adaptive FTC based on control allocation and fault accommodation for satellite reaction wheels. , 2016, , .		5
47	Active Fault-Tolerant Control of Offshore Wind Farm Installations. IFAC-PapersOnLine, 2015, 48, 1351-1356.	0.5	4
48	Combined Singular Perturbations and Nonlinear Geometric Approach to FDI in Satellite Actuators and Sensors. IFAC-PapersOnLine, 2017, 50, 7253-7259.	0.5	4
49	Fault Diagnosis Techniques for a Wind Turbine System. , 2020, , .		4
50	Identification-Oriented Control Designs with Application to a Wind Turbine Benchmark. International Journal of Advanced Computer Science and Applications, 2013, 4, .	0.5	4
51	Active fault tolerant control of wind turbines using identified nonlinear filters. , 2013, , .		3
52	NLGA-based detection and isolation of actuator and sensor faults for quadrotors. , 2015, , .		3
53	Adaptive Signal Processing Strategy for a Wind Farm System Fault Accommodation. IFAC-PapersOnLine, 2018, 51, 52-59.	0.5	3
54	Fault tolerant control design for a wind farm benchmark via fuzzy modelling and identification. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
55	NonLinear Fault Tolerant Flight Control for generic actuators fault models. , 2014, , .		2
56	Data-Driven Fault Detection and Isolation of the Actuators of an Autonomous Underwater Vehicle. , 2021, , .		2
57	Residual Generator Design and Performance Evaluation for Aircraft Simulated Model FDI. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	1
58	Active fault tolerant control scheme for a general aviation aircraft model. , 2009, , .		1
59	Robust actuator fault diagnosis of a wind turbine benchmark model. , 2013, , .		1
60	Fault diagnosis and fault tolerant control strategies for aerospace systems. , 2016, , .		1
61	Fault Diagnosis and Control Reconfiguration in Earth Satellite Model Engines. , 2010, , .		0
62	Postgraduate Education on Fault Diagnosis and Control Reconfiguration in Aerospace. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 306-311.	0.4	0
63	Aerodynamic Decoupled FDI for Frequency Faults in Earth Satellite Engines. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1095-1100.	0.4	0
64	Special section on aerospace control applications. Control Engineering Practice, 2014, 32, 203.	3.2	0
65	Generic wind estimation and compensation based on NLGA and RBF-NN. , 2014, , .		0
66	Adaptive nonlinear filters for joint fault estimation and accommodation of a wind farm benchmark. , 2016, , .		0
67	Satellite Attitude Fault Tolerant Control with Aerodynamic Disturbance Decoupling. , 2018, , .		0
68	Robust Control Applications to a Wind Turbine-Simulated System. , 2018, , .		0
69	A new method for satellite navigation signals FDI. , 2019, , .		0
70	Detectability Analysis of Faults Affecting Actuators and Sensors of Flexible Space Structures. , 2019, , .		0
71	Application of Data-Driven Fault Diagnosis Design Techniques to a Wind Turbine Test-Rig. Lecture Notes in Networks and Systems, 2021, , 23-38.	0.5	0
72	Application of Fault Diagnosis Methodologies to a General Aviation Aircraft. , 2007, , 180-185.		0

#	ARTICLE	IF	CITATIONS
73	Non-linear Geometric Approach to Friction Estimation and Compensation. Lecture Notes in Mechanical Engineering, 2014, , 355-365.	0.3	0
74	Fault Diagnosis and Fault-Tolerant Control for Avionic Systems. Advances in Intelligent Systems and Computing, 2021, , 191-201.	0.5	0
75	Investigation of the student-professor interaction and self-learning ability for an aerospace engineering student. IFAC-PapersOnLine, 2021, 54, 1-6.	0.5	0