Paolo Castaldi

List of Publications by Year
in descending order

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	Underwater Drone Architecture for Marine Digital Twin: Lessons Learned from SUSHI DROP Project. Sensors, 2022, 22, 744.	2.1	8
2	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
3	Fuzzy and Neural Network Approaches to Wind Turbine Fault Diagnosis. Applied Sciences (Switzerland), 2021, 11, 5035.	1.3	9
4	Architecture and performance of the KM3NeT front-end firmware. Journal of Astronomical Telescopes, Instruments, and Systems, 2021, 7, .	1.0	9
5	Fault Diagnosis and Fault-Tolerant Control for Avionic Systems. Advances in Intelligent Systems and Computing, 2021, , 191-201.	0.5	0
6	Data–Driven Fault Detection and Isolation of the Actuators of an Autonomous Underwater Vehicle. , 2021, , .		2
7	Investigation of the student-professor interaction and self-learning ability for an aerospace engineering student. IFAC-PapersOnLine, 2021, 54, 1-6.	0.5	0
8	LEO satellite active FTC with aerodynamic disturbance decoupled fault diagnosis. European Journal of Control, 2020, 51, 76-94.	1.6	6
9	gSeaGen: The KM3NeT GENIE-based code for neutrino telescopes. Computer Physics Communications, 2020, 256, 107477.	3.0	14
10	Deep-sea deployment of the KM3NeT neutrino telescope detection units by self-unrolling. Journal of Instrumentation, 2020, 15, P11027-P11027.	0.5	9
11	Event reconstruction for KM3NeT/ORCA using convolutional neural networks. Journal of Instrumentation, 2020, 15, P10005-P10005.	0.5	15
12	Fault Diagnosis Techniques for a Wind Turbine System. , 2020, , .		4
13	A new method for satellite navigation signals FDI. , 2019, , .		0
14	Intelligent Fault Diagnosis Techniques Applied to an Offshore Wind Turbine System. Applied Sciences (Switzerland), 2019, 9, 783.	1.3	14
15	Detectability Analysis of Faults Affecting Actuators and Sensors of Flexible Space Structures. , 2019, , .		0
16	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
17	An Experience of Project Based Learning in Aerospace Engineering. IFAC-PapersOnLine, 2019, 52, 484-489.	0.5	12
18	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

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19	Model-free fault detection and isolation of a benchmark process control system based on multiple classifiers techniquesâ€"A comparative study. Control Engineering Practice, 2018, 73, 134-148.	3.2	12
20	Satellite Attitude Fault Tolerant Control with Aerodynamic Disturbance Decoupling. , 2018, , .		0
21	Soil Water Balance Model CRITERIA-ID in SWAMP Project: Proof of Concept. , 2018, , .		6
22	Adaptive Signal Processing Strategy for a Wind Farm System Fault Accommodation. IFAC-PapersOnLine, 2018, 51, 52-59.	0.5	3
23	Robust Control Examples Applied to a Wind Turbine Simulated Model. Applied Sciences (Switzerland), 2018, 8, 29.	1.3	6
24	Robust Control Applications to a Wind Turbine-Simulated System. , 2018, , .		0
25	Dataâ€"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
26	Combined Singular Perturbations and Nonlinear Geometric Approach to FDI in Satellite Actuators and Sensors. IFAC-PapersOnLine, 2017, 50, 7253-7259.	0.5	4
27	Avionic Air Data Sensors Fault Detection and Isolation by means of Singular Perturbation and Geometric Approach. Sensors, 2017, 17, 2202.	2.1	14
28	Dataâ€"Driven Fault Diagnosis of a Wind Farm Benchmark Model. Energies, 2017, 10, 866.	1.6	13
29	Combined Geometric and Neural Network Approach to Generic Fault Diagnosis in Satellite Actuators and Sensors. IFAC-PapersOnLine, 2016, 49, 432-437.	0.5	9
30	Adaptive FTC based on control allocation and fault accommodation for satellite reaction wheels. , 2016, , .		5
31	Adaptive nonlinear filters for joint fault estimation and accommodation of a wind farm benchmark. , 2016, , .		0
32	Fault diagnosis and fault tolerant control strategies for aerospace systems. , 2016, , .		1
33	Robust quadrotor actuator fault detection and isolation in presence of environmental disturbances. , 2016, , .		6
34	Active Faultâ€"Tolerant Control of Offshore Wind Farm Installations. IFAC-PapersOnLine, 2015, 48, 1351-1356.	0.5	4
35	NLGA-based detection and isolation of actuator and sensor faults for quadrotors. , 2015, , .		3
36	Wind turbine simulator fault diagnosis via fuzzy modelling and identification techniques. Sustainable Energy, Grids and Networks, 2015, 1, 45-52.	2.3	22

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37	Fault Diagnosis of a Wind Turbine Benchmark via Identified Fuzzy Models. IEEE Transactions on Industrial Electronics, 2015, 62, 3775-3782.	5.2	89
38	Residual Generator Fuzzy Identification for Wind TurbineBenchmark Fault Diagnosis. Machines, 2014, 2, 275-298.	1.2	9
39	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
40	Active actuator faultâ€tolerant control of a wind turbine benchmark model. International Journal of Robust and Nonlinear Control, 2014, 24, 1283-1303.	2.1	80
41	Fault tolerant control design for a wind farm benchmark via fuzzy modelling and identification. , 2014, , .		2
42	Special section on aerospace control applications. Control Engineering Practice, 2014, 32, 203.	3.2	0
43	Fault tolerant control of an offshore wind turbine model via identified fuzzy prototypes. , 2014, , .		6
44	Generic wind estimation and compensation based on NLGA and RBF-NN. , 2014, , .		0
45	NonLinear Fault Tolerant Flight Control for generic actuators fault models. , 2014, , .		2
46	Differential geometry based active fault tolerant control for aircraft. Control Engineering Practice, 2014, 32, 227-235.	3.2	73
47	Robust Trajectory Tracking for Underactuated VTOL Aerial Vehicles: Extended for Adaptive Disturbance Compensation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 3184-3189.	0.4	10
48	Non-linear Geometric Approach to Friction Estimation and Compensation. Lecture Notes in Mechanical Engineering, 2014, , 355-365.	0.3	0
49	Active fault tolerant control of wind turbines using identified nonlinear filters. , 2013, , .		3
50	Satellite attitude active FTC based on Geometric Approach and RBF Neural Network. , 2013, , .		12
51	Data-driven and adaptive control applications to a wind turbine benchmark model. Control Engineering Practice, 2013, 21, 1678-1693.	3.2	45
52	Robust actuator fault diagnosis of a wind turbine benchmark model. , 2013, , .		1
53	Identificationâ€"Oriented Control Designs with Application to a Wind Turbine Benchmark. International Journal of Advanced Computer Science and Applications, 2013, 4, .	0.5	4
54	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

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55	Dataâ€"Drive 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
56	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
57	Adaptive Faultâ€"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
58	Dataâ€"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
59	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
60	Hybrid Modelâ€"Based Fault Detection of Wind Turbine Sensors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 7061-7066.	0.4	11
61	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
62	A new longitudinal flight path control with adaptive wind shear estimation and compensation. , 2011, , .		10
63	Design of residual generators and adaptive filters for the FDI of aircraft model sensors. Control Engineering Practice, 2010, 18, 449-459.	3.2	47
64	Fault Diagnosis and Control Reconfiguration in Earth Satellite Model Engines. , 2010, , .		0
65	Fault diagnosis and control reconfiguration for satellite reaction wheels. , 2010, , .		12
66	Active fault tolerant control scheme for a general aviation aircraft model. , 2009, , .		1
67	Design and Analysis of Robust Fault Diagnosis Schemes for a Simulated Aircraft Model. Journal of Control Science and Engineering, 2008, 2008, 1-18.	0.8	8
68	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
69	Design and performance evaluation of residual genertors for the FDI of an aircraft. International Journal of Automation and Computing, 2007, 4, 156-163.	4.5	9
70	Application of Fault Diagnosis Methodologies to a General Aviation Aircraft. , 2007, , 180-185.		0
71	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
72	A new adaptive approach for on-line parameter and state estimation of induction motors. Control Engineering Practice, 2005, 13, 81-94.	3.2	50

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73	Parameter estimation of induction motor at standstill with magnetic flux monitoring. IEEE Transactions on Control Systems Technology, 2005, 13, 386-400.	3.2	37
74	Identification of dynamic errors-in-variables models. Automatica, 1996, 32, 631-636.	3.0	37
75	A comparison among different inversion methods for multi-exponential NMR relaxation data. Magnetic Resonance Imaging, 1994, 12, 209-212.	1.0	19