

Alessandro Freddi

List of Publications by Year in descending order

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88
papers

1,081
citations

686830

13
h-index

500791

28
g-index

95
all docs

95
docs citations

95
times ranked

1024
citing authors

#	ARTICLE	IF	CITATIONS
1	Flight Control of a Quadrotor Vehicle Subsequent to a Rotor Failure. Journal of Guidance, Control, and Dynamics, 2014, 37, 580-591.	1.6	122
2	Statistical Spectral Analysis for Fault Diagnosis of Rotating Machines. IEEE Transactions on Industrial Electronics, 2018, 65, 4301-4310.	5.2	110
3	A Feedback Linearization Approach to Fault Tolerance in Quadrotor Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 5413-5418.	0.4	101
4	Respiratory rate detection algorithm based on RGB camera: theoretical background and experimental results. Healthcare Technology Letters, 2014, 1, 81-86.	1.9	58
5	Dynamic surface fault tolerant control for underwater remotely operated vehicles. ISA Transactions, 2018, 78, 10-20.	3.1	53
6	A Diagnostic Thau Observer for a Class of Unmanned Vehicles. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 67, 61-73.	2.0	52
7	Actuator fault detection system for a mini-quadrotor. , 2010, , .		37
8	Dual-arm cooperative manipulation under joint limit constraints. Robotics and Autonomous Systems, 2018, 99, 110-120.	3.0	36
9	A Smart Lighting System for Visual Comfort and Energy Savings in Industrial and Domestic Use. Electric Power Components and Systems, 2015, 43, 1696-1706.	1.0	27
10	A smart lighting system for industrial and domestic use. , 2013, , .		26
11	A novel LDA-based approach for motor bearing fault detection. , 2015, , .		22
12	Redundancy analysis of cooperative dual-arm manipulators. International Journal of Advanced Robotic Systems, 2016, 13, 172988141665775.	1.3	19
13	Actuator fault detection and isolation system for an hexacopter. , 2014, , .		18
14	An Integrated Simulation Module for Cyber-Physical Automation Systems. Sensors, 2016, 16, 645.	2.1	18
15	SLAM-based autonomous wheelchair navigation system for AAL scenarios. , 2014, , .		16
16	A Model-based Active Fault Tolerant Control Scheme for a Remotely Operated Vehicle. IFAC-PapersOnLine, 2018, 51, 798-805.	0.5	16
17	A goal-oriented, ontology-based methodology to support the design of AAL environments. Expert Systems With Applications, 2016, 64, 117-131.	4.4	15
18	A Model-Based Fault Diagnosis System for Unmanned Aerial Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 71-76.	0.4	14

#	ARTICLE	IF	CITATIONS
19	A coordination architecture for UUV fleets. <i>Intelligent Service Robotics</i> , 2012, 5, 133-146.	1.6	13
20	An Open and Modular Hardware Node for Wireless Sensor and Body Area Networks. <i>Journal of Sensors</i> , 2016, 2016, 1-16.	0.6	13
21	Fault Tolerant Control Scheme for Robotic Manipulators Affected by Torque Faults. <i>IFAC-PapersOnLine</i> , 2018, 51, 886-893.	0.5	13
22	Improving mobility and autonomy of disabled users via cooperation of assistive robots. , 2018, , .		12
23	A Virtual Thruster-Based Failure Tolerant Control Scheme for Underwater Vehicles. <i>IFAC-PapersOnLine</i> , 2015, 48, 146-151.	0.5	11
24	A QR-code localization system for mobile robots: Application to smart wheelchairs. , 2017, , .		11
25	Fault Diagnosis of Rotating Machinery Based on Wasserstein Distance and Feature Selection. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022, 19, 1997-2007.	3.4	11
26	Auditory paradigm for a P300 BCI system using spatial hearing. , 2013, , .		10
27	AAL Technologies for Independent Life of Elderly People. <i>Biosystems and Biorobotics</i> , 2015, , 329-343.	0.2	10
28	A Preliminary Study of a Cyber Physical System for Industry 4.0: Modelling and Co-Simulation of an AGV for Smart Factories. , 2018, , .		9
29	Actuator Fault-Tolerant Control Architecture for Multirotor Vehicles in Presence of Disturbances. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2020, 99, 859-874.	2.0	9
30	Fault Detection, Diagnosis and Fault Tolerant Output Control for a Remotely Operated Vehicle. , 2018, , .		8
31	Actuator Fault Detection System for a Remotely Operated Vehicle. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 356-361.	0.4	7
32	An Avoidance Control Strategy for Joint-Position Limits of Dual-Arm Robots. <i>IFAC-PapersOnLine</i> , 2017, 50, 1056-1061.	0.5	7
33	Real-time fall detection system by using mobile robots in smart homes. , 2017, , .		7
34	Augmenting robot intelligence via EEG signals to avoid trajectory planning mistakes of a smart wheelchair. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 223-235.	3.3	7
35	Nonlinear Decentralized Model Predictive Control for Unmanned Vehicles Moving in Formation. <i>Information Technology and Control</i> , 2015, 44, .	1.1	7
36	A Fault Diagnosis and Prognosis LED Lighting System for Increasing Reliability in Energy Efficient Buildings. , 2013, , .		6

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37	Room occupancy detection: Combining RSS analysis and fuzzy logic. , 2016, , .		6
38	A robust and self-tuning speed control for permanent magnet synchronous motors via meta-heuristic optimization. International Journal of Advanced Manufacturing Technology, 2018, 96, 1283-1292.	1.5	6
39	A Constrained Thrust Allocation Algorithm for Remotely Operated Vehicles. IFAC-PapersOnLine, 2018, 51, 250-255.	0.5	6
40	Actuator Fault Tolerant Control of Variable Pitch Quadrotor Vehicles. IFAC-PapersOnLine, 2020, 53, 4095-4102.	0.5	6
41	Cooperative and decentralized navigation of autonomous underwater gliders using predictive control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12813-12818.	0.4	5
42	A novel RSSI based approach for human indoor localization: The Fuzzy Discrete Multilateration. , 2016, , .		5
43	Particle Swarm Optimization Based Sliding Mode Control Design: Application to a Quadrotor Vehicle. Studies in Computational Intelligence, 2017, , 143-169.	0.7	5
44	Human-robot cooperation via brain computer interface. , 2017, , .		5
45	Cooperative Robots Architecture for an Assistive Scenario. , 2018, , .		5
46	An integrated simulation environment for Wireless Sensor Networks. , 2015, , .		4
47	A kinematic joint fault tolerant control based on relative jacobian method for dual arm manipulation systems. , 2016, , .		4
48	A thruster failure tolerant control scheme for underwater vehicles. , 2016, , .		4
49	Dynamic Surface Control for Multirotor Vehicles. , 2018, , .		4
50	Actuator Fault Tolerant Position Control of a Quadrotor Unmanned Aerial Vehicle. , 2019, , .		4
51	Human-Robot Cooperation via Brain Computer Interface in Assistive Scenario. Lecture Notes in Electrical Engineering, 2019, , 115-131.	0.3	4
52	Development of a Fuzzy Logic Controller for Small-Scale Solar Organic Rankine Cycle Cogeneration Plants. Applied Sciences (Switzerland), 2021, 11, 5491.	1.3	4
53	Autonomous Assistive Robot for Respiratory Rate Detection and Tracking. , 2014, , 61-72.		4
54	rapros: A ROS Package for Rapid Prototyping. Studies in Computational Intelligence, 2016, , 491-508.	0.7	4

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55	A low cost mobile platform for educational robotic applications. , 2014, , .		3
56	Active Fault Tolerant Control of Remotely Operated Vehicles via Control Effort Redistribution. , 2017, , .		3
57	Fault-Tolerant Disturbance Observer Based Control for Altitude and Attitude Tracking of a Quadrotor. , 2018, , .		3
58	Cyber-Physical Manufacturing Systems for Industry 4.0: Architectural Approach and Pilot Case. , 2019, , .		3
59	Special Issue on "Smart Homes" Editors' Notes. Sensors, 2019, 19, 836.	2.1	3
60	Online Fault Detection: a Smart Approach for Industry 4.0. , 2020, , .		3
61	Machine Learning-as-a-Service for Consumer Electronics Fault Diagnosis: a Comparison between Matlab and Azure ML. , 2020, , .		3
62	Human Indoor Localization for AAL Applications: An RSSI Based Approach. Lecture Notes in Electrical Engineering, 2017, , 239-250.	0.3	3
63	Fault tolerant decentralized nonlinear MPC for fleets of unmanned marine vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 348-353.	0.4	2
64	Nonlinear Decentralized Model Predictive Control Strategy for a Formation of Unmanned Aerial Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 49-54.	0.4	2
65	An integrated simulation module for wireless cyber-physical system. , 2015, , .		2
66	Kinematic Fault Tolerant Control of a Dual-Arm Robotic System Under Torque Faults. , 2018, , .		2
67	Octarotor Fault Tolerant Control via Dynamic Surface Control. , 2019, , .		2
68	Direct position control of an octarotor unmanned vehicle under wind gust disturbance. , 2019, , .		2
69	ErrP Signals Detection for Safe Navigation of a Smart Wheelchair. , 2019, , .		2
70	Disturbance Observer Based Fault Tolerant Control for Tilted Hexarotors. , 2021, , .		2
71	Low Cost RGB-D Vision Based System to Support Motor Disabilities Rehabilitation at Home. Biosystems and Biorobotics, 2015, , 449-461.	0.2	2
72	Training and Retraining Motor Functions at Home with the Help of Current Technology for Video Games: Basis for the Project. Biosystems and Biorobotics, 2015, , 439-447.	0.2	2

#	ARTICLE	IF	CITATIONS
73	Cyber-physical manufacturing systems: An architecture for sensor integration, production line simulation and cloud services. Acta IMEKO (2012), 2020, 9, 39.	0.4	2
74	Development of a smart LED lighting system: Rapid prototyping scenario. , 2014, , .		1
75	Wireless sensor network based management system for electric bicycle-sharing. , 2016, , .		1
76	Robust Control of a Photovoltaic Battery System via Fuzzy Sliding Mode Approach. Studies in Computational Intelligence, 2017, , 115-142.	0.7	1
77	Nonlinear control of a photovoltaic battery system via ABC-tuned Dynamic Surface Controller. , 2017, , .		1
78	Empowered Optical Inspection by Using Robotic Manipulator in Industrial Applications. , 2019, , .		1
79	Recurrence Quantification Analysis of Stator-Current Measurements for Electric Motor Fault Classification. , 2019, , .		1
80	Fault Tolerant Control for an Over-Actuated WAM-V Catamaran. IFAC-PapersOnLine, 2019, 52, 353-359.	0.5	1
81	Estimation of actuator faults in quadrotor vehicles: from theory to validation with experimental flight data. , 2020, , .		1
82	Development and experimental validation of algorithms for human-robot interaction in simulated and real scenarios. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 4529-4539.	3.3	1
83	Fault detection of nonlinear processes based on switching linear regression models. , 2016, , .		0
84	A Gestures Recognition Based Approach for Human-Robot-Interaction. , 2018, , .		0
85	Architecture for Cooperative Interacting Robotic Systems Towards Assisted Living: A Preliminary Study. Lecture Notes in Electrical Engineering, 2019, , 471-486.	0.3	0
86	Constrained Control Allocation for a Remotely Operated Vehicle with Collective Azimuth Thrusters. , 2020, , .		0
87	Dual-Arm Manipulators Kinematic Control Under Multiple Constraints via Virtual Joints Approach. , 2019, , .		0
88	Actuator fault tolerance for aWAM-V catamaran with azimuth thrusters. , 2020, , 93-115.		0