

# Alessandro Freddi

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78  
papers

688  
citations

12  
h-index

23  
g-index

95  
ext. papers

917  
ext. citations

1.8  
avg, IF

4.32  
L-index

#	Paper	IF	Citations
78	Statistical Spectral Analysis for Fault Diagnosis of Rotating Machines. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 4301-4310	8.9	82
77	Flight Control of a Quadrotor Vehicle Subsequent to a Rotor Failure. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2014</b> , 37, 580-591	2.1	75
76	A Feedback Linearization Approach to Fault Tolerance in Quadrotor Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 5413-5418		57
75	Respiratory rate detection algorithm based on RGB-D camera: theoretical background and experimental results. <i>Healthcare Technology Letters</i> , <b>2014</b> , 1, 81-6	1.9	44
74	A Diagnostic Thau Observer for a Class of Unmanned Vehicles. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2012</b> , 67, 61-73	2.9	39
73	Dynamic surface fault tolerant control for underwater remotely operated vehicles. <i>ISA Transactions</i> , <b>2018</b> , 78, 10-20	5.5	34
72	Actuator fault detection system for a mini-quadrotor <b>2010</b> ,		28
71	Dual-arm cooperative manipulation under joint limit constraints. <i>Robotics and Autonomous Systems</i> , <b>2018</b> , 99, 110-120	3.5	23
70	A Smart Lighting System for Visual Comfort and Energy Savings in Industrial and Domestic Use. <i>Electric Power Components and Systems</i> , <b>2015</b> , 43, 1696-1706	1	17
69	A novel LDA-based approach for motor bearing fault detection <b>2015</b> ,		17
68	An Integrated Simulation Module for Cyber-Physical Automation Systems. <i>Sensors</i> , <b>2016</b> , 16,	3.8	15
67	Redundancy analysis of cooperative dual-arm manipulators. <i>International Journal of Advanced Robotic Systems</i> , <b>2016</b> , 13, 172988141665775	1.4	13
66	A smart lighting system for industrial and domestic use <b>2013</b> ,		12
65	SLAM-based autonomous wheelchair navigation system for AAL scenarios <b>2014</b> ,		11
64	An Open and Modular Hardware Node for Wireless Sensor and Body Area Networks. <i>Journal of Sensors</i> , <b>2016</b> , 2016, 1-16	2	11
63	A goal-oriented, ontology-based methodology to support the design of AAL environments. <i>Expert Systems With Applications</i> , <b>2016</b> , 64, 117-131	7.8	10
62	A coordination architecture for UUV fleets. <i>Intelligent Service Robotics</i> , <b>2012</b> , 5, 133-146	2.6	10

61	A Model-Based Fault Diagnosis System for Unmanned Aerial Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2009</b> , 42, 71-76		10
60	Actuator fault detection and isolation system for an hexacopter <b>2014</b> ,		9
59	Auditory paradigm for a P300 BCI system using spatial hearing <b>2013</b> ,		7
58	AAL Technologies for Independent Life of Elderly People. <i>Biosystems and Biorobotics</i> , <b>2015</b> , 329-343	0.2	7
57	Improving mobility and autonomy of disabled users via cooperation of assistive robots <b>2018</b> ,		6
56	A robust and self-tuning speed control for permanent magnet synchronous motors via meta-heuristic optimization. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 96, 1283 <sup>3</sup> -1292 <sup>6</sup>		6
55	Room occupancy detection: Combining RSS analysis and fuzzy logic <b>2016</b> ,		6
54	A Preliminary Study of a Cyber Physical System for Industry 4.0: Modelling and Co-Simulation of an AGV for Smart Factories <b>2018</b> ,		5
53	A QR-code localization system for mobile robots: Application to smart wheelchairs <b>2017</b> ,		5
52	A Virtual Thruster-Based Failure Tolerant Control Scheme for Underwater Vehicles. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 146-151	0.7	5
51	Fault Tolerant Control Scheme for Robotic Manipulators Affected by Torque Faults. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 886-893	0.7	5
50	Cooperative Robots Architecture for an Assistive Scenario <b>2018</b> ,		5
49	Human-Robot Cooperation via Brain Computer Interface in Assistive Scenario. <i>Lecture Notes in Electrical Engineering</i> , <b>2019</b> , 115-131	0.2	4
48	A novel RSSI based approach for human indoor localization: The Fuzzy Discrete Multilateration <b>2016</b> ,		4
47	Human-robot cooperation via brain computer interface <b>2017</b> ,		4
46	An Avoidance Control Strategy for Joint-Position Limits of Dual-Arm Robots. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 1056-1061	0.7	4
45	Real-time fall detection system by using mobile robots in smart homes <b>2017</b> ,		4
44	A Fault Diagnosis and Prognosis LED Lighting System for Increasing Reliability in Energy Efficient Buildings <b>2013</b> ,		4

43	<b>2016,</b>		4
42	Fault Diagnosis of Rotating Machinery Based on Wasserstein Distance and Feature Selection. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2021</b> , 1-11	4.9	4
41	A Model-based Active Fault Tolerant Control Scheme for a Remotely Operated Vehicle. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 798-805	0.7	4
40	Fault Detection, Diagnosis and Fault Tolerant Output Control for a Remotely Operated Vehicle <b>2018,</b>		4
39	Particle Swarm Optimization Based Sliding Mode Control Design: Application to a Quadrotor Vehicle. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 143-169	0.8	3
38	An integrated simulation environment for Wireless Sensor Networks <b>2015,</b>		3
37	A thruster failure tolerant control scheme for underwater vehicles <b>2016,</b>		3
36	Fault-Tolerant Disturbance Observer Based Control for Altitude and Attitude Tracking of a Quadrotor <b>2018,</b>		3
35	Actuator Fault Detection System for a Remotely Operated Vehicle. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 356-361		3
34	Autonomous Assistive Robot for Respiratory Rate Detection and Tracking <b>2014,</b> 61-72		3
33	Human Indoor Localization for AAL Applications: An RSSI Based Approach. <i>Lecture Notes in Electrical Engineering</i> , <b>2017</b> , 239-250	0.2	3
32	rapros: A ROS Package for Rapid Prototyping. <i>Studies in Computational Intelligence</i> , <b>2016</b> , 491-508	0.8	3
31	Dynamic Surface Control for Multirotor Vehicles <b>2018,</b>		3
30	Cyber-Physical Manufacturing Systems for Industry 4.0: Architectural Approach and Pilot Case <b>2019</b> ,		2
29	Octarotor Fault Tolerant Control via Dynamic Surface Control <b>2019,</b>		2
28	Direct position control of an octarotor unmanned vehicle under wind gust disturbance <b>2019,</b>		2
27	Active Fault Tolerant Control of Remotely Operated Vehicles via Control Effort Redistribution <b>2017</b> ,		2
26	A low cost mobile platform for educational robotic applications <b>2014,</b>		2

25	Cooperative and decentralized navigation of autonomous underwater gliders using predictive control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 12813-12818		2
24	Fault tolerant decentralized nonlinear MPC for fleets of unmanned marine vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2010</b> , 43, 348-353		2
23	Cyber-physical manufacturing systems: An architecture for sensor integration, production line simulation and cloud services. <i>Acta IMEKO (2012)</i> , <b>2020</b> , 9, 39	2	2
22	Low Cost RGB-D Vision Based System to Support Motor Disabilities Rehabilitation at Home. <i>Biosystems and Biorobotics</i> , <b>2015</b> , 449-461	0.2	2
21	Actuator Fault Tolerant Control of Variable Pitch Quadrotor Vehicles. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 4095-4102	1	2
20	Development of a Fuzzy Logic Controller for Small-Scale Solar Organic Rankine Cycle Cogeneration Plants. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 5491	2.6	2
19	Human-in-the-Loop Approach to Safe Navigation of a Smart Wheelchair via Brain Computer Interface. <i>Lecture Notes in Electrical Engineering</i> , <b>2021</b> , 197-209	0.2	2
18	A Constrained Thrust Allocation Algorithm for Remotely Operated Vehicles. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 250-255	0.7	2
17	Robust Control of a Photovoltaic Battery System via Fuzzy Sliding Mode Approach. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 115-142	0.8	1
16	Actuator Fault-Tolerant Control Architecture for Multirotor Vehicles in Presence of Disturbances. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2020</b> , 99, 859-874	2.9	1
15	Actuator Fault Tolerant Position Control of a Quadrotor Unmanned Aerial Vehicle <b>2019</b> ,		1
14	Nonlinear Decentralized Model Predictive Control Strategy for a Formation of Unmanned Aerial Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 49-54		1
13	Training and Retraining Motor Functions at Home with the Help of Current Technology for Video Games: Basis for the Project. <i>Biosystems and Biorobotics</i> , <b>2015</b> , 439-447	0.2	1
12	Online Fault Detection: a Smart Approach for Industry 4.0 <b>2020</b> ,		1
11	Augmenting robot intelligence via EEG signals to avoid trajectory planning mistakes of a smart wheelchair. <i>Journal of Ambient Intelligence and Humanized Computing</i> , <b>2021</b> , 1	3.7	1
10	Recurrence Quantification Analysis of Stator-Current Measurements for Electric Motor Fault Classification <b>2019</b> ,		1
9	ErrP Signals Detection for Safe Navigation of a Smart Wheelchair <b>2019</b> ,		1
8	Kinematic Fault Tolerant Control of a Dual-Arm Robotic System Under Torque Faults <b>2018</b> ,		1

7	From the Control Systems Theory to Intelligent Manufacturing and Services: Challenges and Future Perspectives <b>2019</b> , 73-99		o
6	Fault Tolerant Control for an Over-Actuated WAM-V Catamaran. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 353-359	0.7	o
5	Development and experimental validation of algorithms for humanRobot interaction in simulated and real scenarios. <i>Journal of Ambient Intelligence and Humanized Computing</i> , <b>2021</b> , 12, 4529-4539	3.7	o
4	Architecture for Cooperative Interacting Robotic Systems Towards Assisted Living: A Preliminary Study. <i>Lecture Notes in Electrical Engineering</i> , <b>2019</b> , 471-486	0.2	
3	Assistive Robot for Mobility Enhancement of Impaired Students for Barrier-Free Education: A Proof of Concept. <i>Lecture Notes in Networks and Systems</i> , <b>2021</b> , 333-338	0.5	
2	Preliminary Study of a Novel Shelving System for Nutrition Habits Measuring. <i>Lecture Notes in Electrical Engineering</i> , <b>2016</b> , 41-50	0.2	
1	Fault Tolerant Control of a Variable Pitch Quadrotor. <i>Lecture Notes in Control and Information Sciences - Proceedings</i> , <b>2022</b> , 235-255	0.2	