

Alessandro Freddi

List of Publications by Year in Descending Order

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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	Fault Tolerant Control of a Variable Pitch Quadrotor. <i>Lecture Notes in Control and Information Sciences - Proceedings</i> , 2022 , 235-255	0.2	
77	Assistive Robot for Mobility Enhancement of Impaired Students for Barrier-Free Education: A Proof of Concept. <i>Lecture Notes in Networks and Systems</i> , 2021 , 333-338	0.5	
76	Augmenting robot intelligence via EEG signals to avoid trajectory planning mistakes of a smart wheelchair. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 1	3.7	1
75	Development of a Fuzzy Logic Controller for Small-Scale Solar Organic Rankine Cycle Cogeneration Plants. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5491	2.6	2
74	Development and experimental validation of algorithms for humanRobot interaction in simulated and real scenarios. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 12, 4529-4539	3.7	0
73	Human-in-the-Loop Approach to Safe Navigation of a Smart Wheelchair via Brain Computer Interface. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 197-209	0.2	2
72	Fault Diagnosis of Rotating Machinery Based on Wasserstein Distance and Feature Selection. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021 , 1-11	4.9	4
71	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	2.9	1
70	Cyber-physical manufacturing systems: An architecture for sensor integration, production line simulation and cloud services. <i>Acta IMEKO (2012)</i> , 2020 , 9, 39	2	2
69	Actuator Fault Tolerant Control of Variable Pitch Quadrotor Vehicles. <i>IFAC-PapersOnLine</i> , 2020 , 53, 4095-4102	4.1	2
68	Online Fault Detection: a Smart Approach for Industry 4.0 2020 ,		1
67	Human-Robot Cooperation via Brain Computer Interface in Assistive Scenario. <i>Lecture Notes in Electrical Engineering</i> , 2019 , 115-131	0.2	4
66	Architecture for Cooperative Interacting Robotic Systems Towards Assisted Living: A Preliminary Study. <i>Lecture Notes in Electrical Engineering</i> , 2019 , 471-486	0.2	
65	Cyber-Physical Manufacturing Systems for Industry 4.0: Architectural Approach and Pilot Case 2019 ,		2
64	Octarotor Fault Tolerant Control via Dynamic Surface Control 2019 ,		2
63	Direct position control of an octarotor unmanned vehicle under wind gust disturbance 2019 ,		2
62	Actuator Fault Tolerant Position Control of a Quadrotor Unmanned Aerial Vehicle 2019 ,		1

61	From the Control Systems Theory to Intelligent Manufacturing and Services: Challenges and Future Perspectives 2019 , 73-99		0
60	Recurrence Quantification Analysis of Stator-Current Measurements for Electric Motor Fault Classification 2019 ,		1
59	Fault Tolerant Control for an Over-Actuated WAM-V Catamaran. <i>IFAC-PapersOnLine</i> , 2019 , 52, 353-359	0.7	0
58	ErrP Signals Detection for Safe Navigation of a Smart Wheelchair 2019 ,		1
57	Dynamic surface fault tolerant control for underwater remotely operated vehicles. <i>ISA Transactions</i> , 2018 , 78, 10-20	5.5	34
56	Improving mobility and autonomy of disabled users via cooperation of assistive robots 2018 ,		6
55	Statistical Spectral Analysis for Fault Diagnosis of Rotating Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 4301-4310	8.9	82
54	A robust and self-tuning speed control for permanent magnet synchronous motors via meta-heuristic optimization. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 96, 1283-1292	3.2	6
53	A Preliminary Study of a Cyber Physical System for Industry 4.0: Modelling and Co-Simulation of an AGV for Smart Factories 2018 ,		5
52	Fault-Tolerant Disturbance Observer Based Control for Altitude and Attitude Tracking of a Quadrotor 2018 ,		3
51	Dual-arm cooperative manipulation under joint limit constraints. <i>Robotics and Autonomous Systems</i> , 2018 , 99, 110-120	3.5	23
50	A Constrained Thrust Allocation Algorithm for Remotely Operated Vehicles. <i>IFAC-PapersOnLine</i> , 2018 , 51, 250-255	0.7	2
49	Fault Tolerant Control Scheme for Robotic Manipulators Affected by Torque Faults. <i>IFAC-PapersOnLine</i> , 2018 , 51, 886-893	0.7	5
48	A Model-based Active Fault Tolerant Control Scheme for a Remotely Operated Vehicle. <i>IFAC-PapersOnLine</i> , 2018 , 51, 798-805	0.7	4
47	Kinematic Fault Tolerant Control of a Dual-Arm Robotic System Under Torque Faults 2018 ,		1
46	Dynamic Surface Control for Multirotor Vehicles 2018 ,		3
45	Cooperative Robots Architecture for an Assistive Scenario 2018 ,		5
44	Fault Detection, Diagnosis and Fault Tolerant Output Control for a Remotely Operated Vehicle 2018 ,		4

43	Robust Control of a Photovoltaic Battery System via Fuzzy Sliding Mode Approach. <i>Studies in Computational Intelligence</i> , 2017 , 115-142	0.8	1
42	Particle Swarm Optimization Based Sliding Mode Control Design: Application to a Quadrotor Vehicle. <i>Studies in Computational Intelligence</i> , 2017 , 143-169	0.8	3
41	Active Fault Tolerant Control of Remotely Operated Vehicles via Control Effort Redistribution 2017 ,		2
40	Human-robot cooperation via brain computer interface 2017 ,		4
39	A QR-code localization system for mobile robots: Application to smart wheelchairs 2017 ,		5
38	An Avoidance Control Strategy for Joint-Position Limits of Dual-Arm Robots. <i>IFAC-PapersOnLine</i> , 2017 , 50, 1056-1061	0.7	4
37	Real-time fall detection system by using mobile robots in smart homes 2017 ,		4
36	Human Indoor Localization for AAL Applications: An RSSI Based Approach. <i>Lecture Notes in Electrical Engineering</i> , 2017 , 239-250	0.2	3
35	A goal-oriented, ontology-based methodology to support the design of AAL environments. <i>Expert Systems With Applications</i> , 2016 , 64, 117-131	7.8	10
34	A thruster failure tolerant control scheme for underwater vehicles 2016 ,		3
33	Room occupancy detection: Combining RSS analysis and fuzzy logic 2016 ,		6
32	A novel RSSI based approach for human indoor localization: The Fuzzy Discrete Multilateration 2016 ,		4
31	Preliminary Study of a Novel Shelving System for Nutrition Habits Measuring. <i>Lecture Notes in Electrical Engineering</i> , 2016 , 41-50	0.2	
30	rapros: A ROS Package for Rapid Prototyping. <i>Studies in Computational Intelligence</i> , 2016 , 491-508	0.8	3
29	An Open and Modular Hardware Node for Wireless Sensor and Body Area Networks. <i>Journal of Sensors</i> , 2016 , 2016, 1-16	2	11
28	An Integrated Simulation Module for Cyber-Physical Automation Systems. <i>Sensors</i> , 2016 , 16,	3.8	15
27	Redundancy analysis of cooperative dual-arm manipulators. <i>International Journal of Advanced Robotic Systems</i> , 2016 , 13, 172988141665775	1.4	13
26	2016 ,		4

25	An integrated simulation environment for Wireless Sensor Networks 2015 ,		3
24	A Smart Lighting System for Visual Comfort and Energy Savings in Industrial and Domestic Use. <i>Electric Power Components and Systems</i> , 2015 , 43, 1696-1706	1	17
23	A Virtual Thruster-Based Failure Tolerant Control Scheme for Underwater Vehicles. <i>IFAC-PapersOnLine</i> , 2015 , 48, 146-151	0.7	5
22	A novel LDA-based approach for motor bearing fault detection 2015 ,		17
21	AAL Technologies for Independent Life of Elderly People. <i>Biosystems and Biorobotics</i> , 2015 , 329-343	0.2	7
20	Low Cost RGB-D Vision Based System to Support Motor Disabilities Rehabilitation at Home. <i>Biosystems and Biorobotics</i> , 2015 , 449-461	0.2	2
19	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> , 2015 , 439-447	0.2	1
18	Actuator fault detection and isolation system for an hexacopter 2014 ,		9
17	Flight Control of a Quadrotor Vehicle Subsequent to a Rotor Failure. <i>Journal of Guidance, Control, and Dynamics</i> , 2014 , 37, 580-591	2.1	75
16	Respiratory rate detection algorithm based on RGB-D camera: theoretical background and experimental results. <i>Healthcare Technology Letters</i> , 2014 , 1, 81-6	1.9	44
15	SLAM-based autonomous wheelchair navigation system for AAL scenarios 2014 ,		11
14	A low cost mobile platform for educational robotic applications 2014 ,		2
13	Autonomous Assistive Robot for Respiratory Rate Detection and Tracking 2014 , 61-72		3
12	A smart lighting system for industrial and domestic use 2013 ,		12
11	Auditory paradigm for a P300 BCI system using spatial hearing 2013 ,		7
10	A Fault Diagnosis and Prognosis LED Lighting System for Increasing Reliability in Energy Efficient Buildings 2013 ,		4
9	Actuator Fault Detection System for a Remotely Operated Vehicle. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 356-361		3
8	A Diagnostic Thau Observer for a Class of Unmanned Vehicles. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2012 , 67, 61-73	2.9	39

7	A coordination architecture for UUV fleets. <i>Intelligent Service Robotics</i> , 2012 , 5, 133-146	2.6	10
6	Nonlinear Decentralized Model Predictive Control Strategy for a Formation of Unmanned Aerial Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 49-54		1
5	A Feedback Linearization Approach to Fault Tolerance in Quadrotor Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 5413-5418		57
4	Cooperative and decentralized navigation of autonomous underwater gliders using predictive control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 12813-12818		2
3	Actuator fault detection system for a mini-quadrotor 2010 ,		28
2	Fault tolerant decentralized nonlinear MPC for fleets of unmanned marine vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 348-353		2
1	A Model-Based Fault Diagnosis System for Unmanned Aerial Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 71-76		10