

Andrea Monteri

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.

147
papers

1,134
citations

17
h-index

27
g-index

176
ext. papers

1,507
ext. citations

2.3
avg, IF

4.81
L-index

#	Paper	IF	Citations
147	Fault Tolerant Control of a Variable Pitch Quadrotor. <i>Lecture Notes in Control and Information Sciences - Proceedings</i> , 2022 , 235-255	0.2	
146	Robotics in Education: A Smart and Innovative Approach to the Challenges of the 21st Century. <i>Lecture Notes in Networks and Systems</i> , 2021 , 17-26	0.5	0
145	Neuromuscular Control Modelling of Human Perturbed Posture Through Piecewise Affine Autoregressive With Exogenous Input Models.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 804904	5.8	
144	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	
143	Optimal error governor for PID controllers. <i>International Journal of Systems Science</i> , 2021 , 52, 2480-2492.	2.3	2
142	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
141	Development and experimental validation of algorithms for human-robot interaction in simulated and real scenarios. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 12, 4529-4539	3.7	0
140	Biological age estimation using an eHealth system based on wearable sensors. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 12, 4449-4460	3.7	3
139	Hybrid Deep Learning (hDL)-Based Brain-Computer Interface (BCI) Systems: A Systematic Review. <i>Brain Sciences</i> , 2021 , 11,	3.4	12
138	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
137	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
136	Stress Detection in Computer Users From Keyboard and Mouse Dynamics. <i>IEEE Transactions on Consumer Electronics</i> , 2021 , 67, 12-19	4.8	7
135	Arc fault detection and appliances classification in AC home electrical networks using recurrence quantification plots and image analysis. <i>Electric Power Systems Research</i> , 2021 , 201, 107503	3.5	3
134	Measuring Environmental Data and Physiological Parameters at Home to Assess the Caregiver Burden in Assistants of People with Dementia. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 3-13	0.2	
133	Analysis of LGV usage for the improvement of a customized production. <i>Procedia Manufacturing</i> , 2020 , 51, 1606-1613	1.5	1
132	System Thinking Approach for Digital Twin Analysis 2020 ,		1
131	Measurement of Users' Well-Being Through Domotic Sensors and Machine Learning Algorithms. <i>IEEE Sensors Journal</i> , 2020 , 20, 8029-8038	4	12

130	A functional source separation algorithm to enhance error-related potentials monitoring in noninvasive brain-computer interface. <i>Computer Methods and Programs in Biomedicine</i> , 2020 , 191, 105419-9	6.9	12
129	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
128	Digital Twin Reference Model Development to Prevent Operators Risk in Process Plants. <i>Sustainability</i> , 2020 , 12, 1088	3.6	62
127	Decision support methodologies and day-ahead optimization for smart building energy management in a dynamic pricing scenario. <i>Energy and Buildings</i> , 2020 , 216, 109963	7	3
126	A Stress Detection System based on Multimedia Input Peripherals 2020 ,		2
125	Day-Ahead Multi-Objective Energy Optimization of a Smart Building in a Dynamic Pricing Scenario. <i>Springer Proceedings in Energy</i> , 2020 , 195-205	0.2	
124	Convolutional Recurrent Neural Networks and Acoustic Data Augmentation for Snore Detection. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 35-46	0.5	0
123	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
122	Augmented Reality Smart Glasses in the Workplace: Safety and Security in the Fourth Industrial Revolution Era. <i>Lecture Notes in Computer Science</i> , 2020 , 231-247	0.9	4
121	Actuator Fault Tolerant Control of Variable Pitch Quadrotor Vehicles. <i>IFAC-PapersOnLine</i> , 2020 , 53, 4095-4102	4.1	2
120	LS-SVM for LPV-ARX Identification: Efficient Online Update by Low-Rank Matrix Approximation 2020 ,		2
119	Online Fault Detection: a Smart Approach for Industry 4.0 2020 ,		1
118	A nonlinear optimal control approach for the autonomous octorotor. <i>Advanced Control for Applications</i> , 2020 , 2, e50	0.9	
117	Human-Robot Cooperation via Brain Computer Interface in Assistive Scenario. <i>Lecture Notes in Electrical Engineering</i> , 2019 , 115-131	0.2	4
116	A Model-Based Approach to Support the Design of Mold Heating for Composites. <i>Lecture Notes in Mechanical Engineering</i> , 2019 , 391-401	0.4	
115	Architecture for Cooperative Interacting Robotic Systems Towards Assisted Living: A Preliminary Study. <i>Lecture Notes in Electrical Engineering</i> , 2019 , 471-486	0.2	
114	Smart Monitoring of User and Home Environment: The Health@Home Acquisition Framework. <i>Lecture Notes in Electrical Engineering</i> , 2019 , 23-37	0.2	3
113	Psychophysiological Stress Control via Heart Rate Entrainment 2019 ,		1

112	Cyber-Physical Manufacturing Systems for Industry 4.0: Architectural Approach and Pilot Case 2019		2
111	Octarotor Fault Tolerant Control via Dynamic Surface Control 2019 ,		2
110	Direct position control of an octarotor unmanned vehicle under wind gust disturbance 2019 ,		2
109	A life cycle costing of compacted lithium titanium oxide batteries for industrial applications. <i>Journal of Power Sources</i> , 2019 , 436, 226837	8.9	14
108	The KIMORE Dataset: Kinematic Assessment of Movement and Clinical Scores for Remote Monitoring of Physical Rehabilitation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019 , 27, 1436-1448	4.8	23
107	Actuator Fault Tolerant Position Control of a Quadrotor Unmanned Aerial Vehicle 2019 ,		1
106	From the Control Systems Theory to Intelligent Manufacturing and Services: Challenges and Future Perspectives 2019 , 73-99		0
105	A Non-invasive Method for Biological Age Estimation Using Frailty Phenotype Assessment. <i>Lecture Notes in Electrical Engineering</i> , 2019 , 81-94	0.2	3
104	A Machine-Learning Based Emotion Recognition System in Patients with Parkinson's Disease 2019 ,		2
103	Recurrence Quantification Analysis of Stator-Current Measurements for Electric Motor Fault Classification 2019 ,		1
102	Towards the Design of a Machine Learning-based Consumer Healthcare Platform powered by Electronic Health Records and measurement of Lifestyle through Smartphone Data 2019 ,		2
101	Fault Tolerant Control for an Over-Actuated WAM-V Catamaran. <i>IFAC-PapersOnLine</i> , 2019 , 52, 353-359	0.7	0
100	Fault detection of a VTOL UAV using Acceleration Measurements 2019 ,		4
99	ErrP Signals Detection for Safe Navigation of a Smart Wheelchair 2019 ,		1
98	Real time indoor localization integrating a model based pedestrian dead reckoning on smartphone and BLE beacons. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019 , 10, 1-12	3.7	44
97	Dynamic surface fault tolerant control for underwater remotely operated vehicles. <i>ISA Transactions</i> , 2018 , 78, 10-20	5.5	34
96	Complex activity recognition system based on cascade classifiers and wearable device data 2018 ,		8
95	Improving mobility and autonomy of disabled users via cooperation of assistive robots 2018 ,		6

94	Statistical Spectral Analysis for Fault Diagnosis of Rotating Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 4301-4310	8.9	82
93	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
92	A Hidden Semi-Markov Model based approach for rehabilitation exercise assessment. <i>Journal of Biomedical Informatics</i> , 2018 , 78, 1-11	10.2	27
91	An automatic temperature control for induction cooktops to reduce energy consumption 2018 ,		1
90	First Approach to a Holistic Tool for Assessing RES Investment Feasibility. <i>Sustainability</i> , 2018 , 10, 1153	3.6	2
89	A Smart Sensing Architecture for Domestic Monitoring: Methodological Approach and Experimental Validation. <i>Sensors</i> , 2018 , 18,	3.8	30
88	A Preliminary Study of a Cyber Physical System for Industry 4.0: Modelling and Co-Simulation of an AGV for Smart Factories 2018 ,		5
87	Health@Home: pilot cases and preliminary results : Integrated residential sensor network to promote the active aging of real users 2018 ,		9
86	Fault-Tolerant Disturbance Observer Based Control for Altitude and Attitude Tracking of a Quadrotor 2018 ,		3
85	Dual-arm cooperative manipulation under joint limit constraints. <i>Robotics and Autonomous Systems</i> , 2018 , 99, 110-120	3.5	23
84	A Constrained Thrust Allocation Algorithm for Remotely Operated Vehicles. <i>IFAC-PapersOnLine</i> , 2018 , 51, 250-255	0.7	2
83	Fault Tolerant Control Scheme for Robotic Manipulators Affected by Torque Faults. <i>IFAC-PapersOnLine</i> , 2018 , 51, 886-893	0.7	5
82	A Model-based Active Fault Tolerant Control Scheme for a Remotely Operated Vehicle. <i>IFAC-PapersOnLine</i> , 2018 , 51, 798-805	0.7	4
81	A Smart Home Services Demonstration: Monitoring, Control and Security Services Offered to the User 2018 ,		4
80	Kinematic Fault Tolerant Control of a Dual-Arm Robotic System Under Torque Faults 2018 ,		1
79	Fall Detection System by Using Ambient Intelligence and Mobile Robots 2018 ,		7
78	Dynamic Surface Control for Multirotor Vehicles 2018 ,		3
77	Cooperative Robots Architecture for an Assistive Scenario 2018 ,		5

76	Fault Detection, Diagnosis and Fault Tolerant Output Control for a Remotely Operated Vehicle 2018 ,		4
75	Collaborative design of a telerehabilitation system enabling virtual second opinion based on fuzzy logic. <i>IET Computer Vision</i> , 2018 , 12, 502-512	1.4	5
74	Fault Detection and Isolation of Linear Discrete-Time Periodic Systems Using the Geometric Approach. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 1518-1523	5.9	18
73	An adaptive VSS control for remotely operated vehicles. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017 , 31, 507-521	2.8	3
72	Robust Control of a Photovoltaic Battery System via Fuzzy Sliding Mode Approach. <i>Studies in Computational Intelligence</i> , 2017 , 115-142	0.8	1
71	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
70	Temperature control of an innovative aluminium-steel molds induction preheat process placed on automated laser guided vehicles 2017 ,		4
69	Active Fault Tolerant Control of Remotely Operated Vehicles via Control Effort Redistribution 2017 ,		2
68	A Parametric Optimization Approach of an Induction Heating System for Energy Consumption Reduction 2017 ,		2
67	Human-robot cooperation via brain computer interface 2017 ,		4
66	A QR-code localization system for mobile robots: Application to smart wheelchairs 2017 ,		5
65	Cyber-physical system integration for industry 4.0: Modelling and simulation of an induction heating process for aluminium-steel molds in footwear soles manufacturing 2017 ,		12
64	A Variable Structure System Control and its Application in Underwater Vehicles. <i>IFAC-PapersOnLine</i> , 2017 , 50, 7019-7026	0.7	1
63	An Avoidance Control Strategy for Joint-Position Limits of Dual-Arm Robots. <i>IFAC-PapersOnLine</i> , 2017 , 50, 1056-1061	0.7	4
62	Real-time fall detection system by using mobile robots in smart homes 2017 ,		4
61	Human Indoor Localization for AAL Applications: An RSSI Based Approach. <i>Lecture Notes in Electrical Engineering</i> , 2017 , 239-250	0.2	3
60	The Role of ICT in the Italian Health Care System. <i>Lecture Notes in Electrical Engineering</i> , 2016 , 3-17	0.2	
59	A thruster failure tolerant control scheme for underwater vehicles 2016 ,		3

58	Room occupancy detection: Combining RSS analysis and fuzzy logic 2016 ,		6
57	A Nonlinear System with Coupled Switching Surfaces for Remotely Operated Vehicle Control. <i>IFAC-PapersOnLine</i> , 2016 , 49, 311-316	0.7	2
56	A novel RSSI based approach for human indoor localization: The Fuzzy Discrete Multilateration 2016 ,		4
55	Preliminary Study of a Novel Shelving System for Nutrition Habits Measuring. <i>Lecture Notes in Electrical Engineering</i> , 2016 , 41-50	0.2	
54	rapros: A ROS Package for Rapid Prototyping. <i>Studies in Computational Intelligence</i> , 2016 , 491-508	0.8	3
53	An Open and Modular Hardware Node for Wireless Sensor and Body Area Networks. <i>Journal of Sensors</i> , 2016 , 2016, 1-16	2	11
52	An Integrated Simulation Module for Cyber-Physical Automation Systems. <i>Sensors</i> , 2016 , 16,	3.8	15
51	Redundancy analysis of cooperative dual-arm manipulators. <i>International Journal of Advanced Robotic Systems</i> , 2016 , 13, 172988141665775	1.4	13
50	2016 ,		4
49	Implementation of an $\mathbb{E}t$ -home \mathbb{E} -Health system using heterogeneous devices 2016 ,		14
48	An integrated simulation environment for Wireless Sensor Networks 2015 ,		3
47	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
46	A Virtual Thruster-Based Failure Tolerant Control Scheme for Underwater Vehicles. <i>IFAC-PapersOnLine</i> , 2015 , 48, 146-151	0.7	5
45	A detection-estimation approach to filtering with intermittent observations with generally correlated packet dropouts 2015 ,		3
44	A novel LDA-based approach for motor bearing fault detection 2015 ,		17
43	AAL Technologies for Independent Life of Elderly People. <i>Biosystems and Biorobotics</i> , 2015 , 329-343	0.2	7
42	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
41	Investments and Sustainability of Public Expenditure in the Health Sector. <i>Biosystems and Biorobotics</i> , 2015 , 35-46	0.2	

40	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
39	Actuator fault detection and isolation system for an hexacopter 2014 ,		9
38	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
37	SLAM-based autonomous wheelchair navigation system for AAL scenarios 2014 ,		11
36	A low cost mobile platform for educational robotic applications 2014 ,		2
35	A detection-estimation approach to filtering for Gaussian systems with intermittent observations 2014 ,		2
34	Autonomous Assistive Robot for Respiratory Rate Detection and Tracking 2014 , 61-72		3
33	A smart lighting system for industrial and domestic use 2013 ,		12
32	Geometric tools for solving the FDI problem for linear periodic discrete-time systems. <i>International Journal of Control</i> , 2013 , 86, 1214-1226	1.5	2
31	Optimal reduced-order quadratic solution for the non-Gaussian finite-horizon regulator problem 2013 ,		2
30	Reduced-Order Quadratic Kalman-Like Filtering of Non-Gaussian Systems. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 1744-1757	5.9	12
29	A Fault Diagnosis and Prognosis LED Lighting System for Increasing Reliability in Energy Efficient Buildings 2013 ,		4
28	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
27	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
26	A coordination architecture for UUV fleets. <i>Intelligent Service Robotics</i> , 2012 , 5, 133-146	2.6	10
25	Reduced-order quadratic Kalman-like filtering for non-Gaussian systems 2012 ,		2
24	. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 1036-1046	4.8	58
23	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

22	An actuator failure tolerant robust control approach for an underwater Remotely Operated Vehicle 2011 ,	7
21	Actuator fault detection system for a mini-quadrotor 2010 ,	28
20	A geometric approach to Fault Detection and Isolation Problem for linear periodic systems 2010 ,	3
19	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
18	Actuator Failure Tolerant Control Design for Underwater Remotely Operated Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 25-30	3
17	Observer-based Fault Tolerant Sliding Mode Control for Remotely Operated Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 173-178	4
16	Fault Detection for Linear Periodic Systems Using a Geometric Approach. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 1637-1643	5.9 26
15	Real-Time Model-Based Fault Detection and Isolation for UGVs. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2009 , 56, 425-439	2.9 13
14	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
13	An Actuator Failure Tolerant Approach for Underwater Remotely Operated Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 267-272	2
12	Cooperative control of underwater glider fleets by fault tolerant decentralized MPC. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 16021-16026	8
11	Safe flying for an UAV helicopter 2007 ,	13
10	A geometric approach to fault detection of periodic systems 2007 ,	1
9	AN ACTUATOR FAULT TOLERANT APPROACH FOR UNDERWATER REMOTELY OPERATED VEHICLES. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2007 , 40, 293-299	
8	Model-Based Sensor Fault Detection and Isolation System for Unmanned Ground Vehicles: Experimental Validation (part II). <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , 2007 ,	9
7	Model-Based Sensor Fault Detection and Isolation System for Unmanned Ground Vehicles: Theoretical Aspects (part I). <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , 2007 ,	23
6	Experimental Validation of a Real-Time Model-Based Sensor Fault Detection and Isolation System for Unmanned Ground Vehicles 2006 ,	12
5	ON-LINE SENSOR FAULT DETECTION SYSTEM FOR A SMART WHEELCHAIR. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 91-96	1

4	Experimental Validation of a Real-Time Model-Based Sensor Fault Detection and Isolation System for Unmanned Ground Vehicles 2006 ,	4
3	MODEL-BASED SENSOR FAULT DETECTION SYSTEM FOR A SMART WHEELCHAIR. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 269-274	3
2	Navigation system for a smart wheelchair. <i>Journal of Zhejiang University Science B</i> , 2005 , 6A, 110-117	12
1	Optimal Fault Tolerant Error Governor for PID Controllers. <i>International Journal of Control, Automation and Systems</i> ,1	2.9