

Francesco Fanelli

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

543
citations

933447

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h-index

940533

16
g-index

27
all docs

27
docs citations

27
times ranked

489
citing authors

#	ARTICLE	IF	CITATIONS
1	A new AUV navigation system exploiting unscented Kalman filter. Ocean Engineering, 2016, 113, 121-132.	4.3	177
2	An Attitude Estimation Algorithm for Mobile Robots Under Unknown Magnetic Disturbances. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1900-1911.	5.8	93
3	Single axis FOG aided attitude estimation algorithm for mobile robots. Mechatronics, 2015, 30, 158-173.	3.3	37
4	UKF-Based Navigation System for AUVs: Online Experimental Validation. IEEE Journal of Oceanic Engineering, 2019, 44, 633-641.	3.8	37
5	A comparison between EKF-based and UKF-based navigation algorithms for AUVs localization. , 2015, , .		34
6	Sea currents estimation during AUV navigation using Unscented Kalman Filter. IFAC-PapersOnLine, 2017, 50, 13668-13673.	0.9	34
7	A low cost autonomous underwater vehicle for patrolling and monitoring. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2017, 231, 740-749.	0.5	27
8	Optimization-based scaling procedure for the design of fully portable hand exoskeletons. Meccanica, 2018, 53, 3157-3175.	2.0	16
9	Development and Online Validation of an UKF-based Navigation Algorithm for AUVs. IFAC-PapersOnLine, 2016, 49, 69-74.	0.9	14
10	Generic Path Planning Algorithm for Mobile Robots Based on BÄ©zier Curves. IFAC-PapersOnLine, 2016, 49, 145-150.	0.9	12
11	A free floating manipulation strategy for Autonomous Underwater Vehicles. Robotics and Autonomous Systems, 2017, 87, 133-146.	5.1	12
12	An automatic scaling procedure for a wearable and portable hand exoskeleton. , 2016, , .		9
13	Underwater Vehicles attitude estimation in presence of magnetic disturbances. , 2016, , .		9
14	An autonomous underwater vehicle and SUNSET to bridge underwater networks composed of multi-vendor modems. Annual Reviews in Control, 2018, 46, 295-303.	7.9	5
15	Simultaneous navigation state and sea current estimation through augmented state Unscented Kalman Filter. , 2016, , .		4
16	FeelHippo: A low-cost autonomous underwater vehicle for subsea monitoring and inspection. , 2016, , .		4
17	Underwater Robotics Competitions: The European Robotics League Emergency Robots Experience With FeelHippo AUV. Frontiers in Robotics and AI, 2020, 7, 3.	3.2	4
18	Employment of an Autonomous Underwater Vehicle as mobile bridge among heterogeneous acoustic nodes. IFAC-PapersOnLine, 2017, 50, 12380-12385.	0.9	3

#	ARTICLE	IF	CITATIONS
19	Enabling cooperation and networking in heterogeneous underwater networks composed of multi-vendor vehicles and modems. , 2017, , .		3
20	Development of an ultra short baseline-aided buoy for underwater targets localization. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2019, 233, 1212-1225.	0.5	3
21	Magnetometers independent heading estimation strategy for UUV based on position and speed observations. , 2017, , .		1
22	Marine Robots in Environmental Surveys: Current Developments at ISME Localisation and Navigation. Ocean Engineering & Oceanography, 2018, , 69-86.	0.2	1
23	Intervention-Autonomous Underwater Vehicle Multibody Models for Dynamic Manipulation Tasks. Computational Methods in Applied Sciences (Springer), 2016, , 193-211.	0.3	0
24	Navigation Filter. Springer Theses, 2020, , 41-71.	0.1	0