

Narcís Palomeras

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3480822/publications.pdf>

Version: 2024-02-01

74
papers

1,746
citations

377584

21
h-index

388640

36
g-index

76
all docs

76
docs citations

76
times ranked

1356
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic Target Recognition for Mine Countermeasure Missions Using Forward-Looking Sonar Data. IEEE Journal of Oceanic Engineering, 2022, 47, 141-161.	2.1	22
2	Docking of Non-Holonomic AUVs in Presence of Ocean Currents: A Comparative Survey. IEEE Access, 2021, 9, 86607-86631.	2.6	5
3	Involving fishers in scaling up the restoration of cold-water coral gardens on the Mediterranean continental shelf. Biological Conservation, 2021, 262, 109301.	1.9	8
4	Extrinsic Visual-Inertial Calibration for Motion Distortion Correction of Underwater 3D Scans. IEEE Access, 2021, 9, 93384-93398.	2.6	5
5	Differential Pressure Sensor Speedometer for Autonomous Underwater Vehicle Velocity Estimation. IEEE Journal of Oceanic Engineering, 2020, 45, 946-978.	2.1	18
6	Mobile robotic platforms for the acoustic tracking of deep-sea demersal fishery resources. Science Robotics, 2020, 5, .	9.9	33
7	Multisensor online 3D view planning for autonomous underwater exploration. Journal of Field Robotics, 2020, 37, 1123-1147.	3.2	28
8	Online Multilayered Motion Planning with Dynamic Constraints for Autonomous Underwater Vehicles. , 2019, , .		17
9	First attempts towards the restoration of gorgonian populations on the Mediterranean continental shelf. Aquatic Conservation: Marine and Freshwater Ecosystems, 2019, 29, 1278-1284.	0.9	20
10	Two-Dimensional Frontier-Based Viewpoint Generation for Exploring and Mapping Underwater Environments. Sensors, 2019, 19, 1460.	2.1	17
11	Autonomous Exploration of Complex Underwater Environments Using a Probabilistic Next-Best-View Planner. IEEE Robotics and Automation Letters, 2019, 4, 1619-1625.	3.3	31
12	Active SLAM for Autonomous Underwater Exploration. Remote Sensing, 2019, 11, 2827.	1.8	26
13	Online motion planning for unexplored underwater environments using autonomous underwater vehicles. Journal of Field Robotics, 2019, 36, 370-396.	3.2	42
14	Autonomous Mapping of Underwater 3-D Structures: From View Planning To Execution. IEEE Robotics and Automation Letters, 2018, 3, 1965-1971.	3.3	32
15	Sparus II AUV – A Hovering Vehicle for Seabed Inspection. IEEE Journal of Oceanic Engineering, 2018, 43, 344-355.	2.1	127
16	AUV homing and docking for remote operations. Ocean Engineering, 2018, 154, 106-120.	1.9	91
17	Object Recognition and Pose Estimation using Laser scans For Advanced Underwater Manipulation. , 2018, , .		6
18	Online Robotic Exploration for Autonomous Underwater Vehicles in Unstructured Environments. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
19	Semantic SLAM for an AUV using object recognition from point clouds. IFAC-PapersOnLine, 2018, 51, 360-365.	0.5	16
20	Online 3D Underwater Exploration and Coverage. , 2018, , .		4
21	Autonomous detection, following and mapping of an underwater chain using sonar. Ocean Engineering, 2017, 130, 336-350.	1.9	35
22	Movelt!: Autonomous Underwater Free-Floating Manipulation. IEEE Robotics and Automation Magazine, 2017, 24, 41-51.	2.2	51
23	Wireless HROV control with compressed visual feedback over an acoustic link. , 2017, , .		6
24	LOON-DOCK: AUV homing and docking for high-bandwidth data transmission. , 2017, , .		6
25	STRONGMAR Summer School 2016 "Joining theory with a practical application in Underwater Archeology. , 2017, , .		1
26	Autonomous Underwater Navigation and Optical Mapping in Unknown Natural Environments. Sensors, 2016, 16, 1174.	2.1	50
27	I-AUV Docking and Panel Intervention at Sea. Sensors, 2016, 16, 1673.	2.1	29
28	Online motion planning for underwater inspection. , 2016, , .		7
29	Mobile beacon control algorithm that ensures observability in single range navigation**This work is supported by the European Commission under the FP7"ICT project "CADDY " Cognitive Autonomous Diving Buddy"(Grant Agreement No. 611373) and ARCHROV project (DPI2014-57746-C3-3-R). Joint results were obtained as a result of staff exchange within H2020"TWINNING project "EXCELLABUST - Excelling LABUST in Marine Robotics"(Grant Agreement No. 691980). Filip Mandic is financed by the Croatian Science Foundation th. IFAC-PapersOnLine, 2016, 49, 48-53.	0.5	5
30	Autonomous homing and docking for AUVs using Range-Only Localization and Light Beacons. IFAC-PapersOnLine, 2016, 49, 54-60.	0.5	27
31	Toward persistent autonomous intervention in a subsea panel. Autonomous Robots, 2016, 40, 1279-1306.	3.2	33
32	The Kallisti Limnes, carbon dioxide-accumulating subsea pools. Scientific Reports, 2015, 5, 12152.	1.6	18
33	Coverage Path Planning with Real-time Replanning and Surface Reconstruction for Inspection of Three-dimensional Underwater Structures using Autonomous Underwater Vehicles. Journal of Field Robotics, 2015, 32, 952-983.	3.2	87
34	Learning multiple strategies to perform a valve turning with underwater currents using an I-AUV. , 2015, , .		12
35	Team-based workshop to engage young students in engineering and science: Building and driving a ROV (R2B2). Two special editions in India. , 2015, , .		0
36	Pool testing of AUV visual servoing for autonomous inspection. IFAC-PapersOnLine, 2015, 48, 274-280.	0.5	6

#	ARTICLE	IF	CITATIONS
37	Cognitive system for autonomous underwater intervention. Pattern Recognition Letters, 2015, 67, 91-99.	2.6	8
38	Free-floating panel intervention by means of Learning by Demonstration.... IFAC-PapersOnLine, 2015, 48, 38-43.	0.5	5
39	Adaptive frequency filtering for forward-looking sonar imagery spectral registration. , 2015, , .		0
40	Sonar-based chain following using an autonomous underwater vehicle. , 2014, , .		6
41	I-AUV docking and intervention in a subsea panel. , 2014, , .		37
42	An Intervention-AUV learns how to perform an underwater valve turning. , 2014, , .		7
43	Motion control for autonomous underwater vehicles: A robust model — Free approach. , 2014, , .		6
44	Coverage path planning with realtime replanning for inspection of 3D underwater structures. , 2014, , .		31
45	Real-time mosaicing with two-dimensional forward-looking sonar. , 2014, , .		19
46	SLAM with SC-PHD Filters: An Underwater Vehicle Application. IEEE Robotics and Automation Magazine, 2014, 21, 38-45.	2.2	15
47	Autonomous I-AUV Docking for Fixed-base Manipulation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 12160-12165.	0.4	25
48	Automatic detection of underwater chain links using a forward-looking sonar. , 2013, , .		23
49	A robust visual servo control scheme with prescribed performance for an autonomous underwater vehicle. , 2013, , .		12
50	Vision-based localization and mapping system for AUV intervention. , 2013, , .		21
51	Mapping the Moon: Using a lightweight AUV to survey the site of the 17th century ship "La Lune"™. , 2013, , .		42
52	Single cluster PHD SLAM: Application to autonomous underwater vehicles using stereo vision. , 2013, , .		6
53	On-line identification of autonomous underwater vehicles through global derivative-free optimization. , 2013, , .		19
54	Towards valve turning with an AUV using Learning by Demonstration. , 2013, , .		5

#	ARTICLE	IF	CITATIONS
55	Complex structure profile estimation and following with the GIRONA500 AUV. , 2013, , .		1
56	Profile Following for Inspection of Underwater Structures. Paladyn, 2013, 4, .	1.9	0
57	Delayed state information filter for USBL-Aided AUV navigation. , 2012, , .		14
58	Template Tracking and Visual Servoing for Alignment Tasks with Autonomous Underwater Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 256-261.	0.4	2
59	COLA2: A Control Architecture for AUVs. IEEE Journal of Oceanic Engineering, 2012, 37, 695-716.	2.1	67
60	Girona 500 AUV: From Survey to Intervention. IEEE/ASME Transactions on Mechatronics, 2012, 17, 46-53.	3.7	222
61	Reconfigurable AUV for intervention missions: a case study on underwater object recovery. Intelligent Service Robotics, 2012, 5, 19-31.	1.6	82
62	The Girona 500, a multipurpose autonomous underwater vehicle. , 2011, , .		26
63	Towards a Deliberative Mission Control System for an AUV. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 509-514.	0.4	0
64	A distributed architecture for enabling autonomous underwater Intervention Missions. , 2010, , .		7
65	Multiple vehicles mission coordination using Petri nets. , 2010, , .		12
66	Using petri nets to specify and execute missions for autonomous underwater vehicles. , 2009, , .		15
67	Mission Control System for an Autonomous Vehicle: Application Study of a Dam Inspection using an AUV. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 66-71.	0.4	2
68	Towards a Mission Control Language for AUVs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 15028-15033.	0.4	5
69	ICTINEUAUV Wins the First SAUC-E Competition. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	26
70	MCL: A MISSION CONTROL LANGUAGE FOR AUVS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 123-128.	0.4	3
71	Underwater Telerobotics for Collaborative Research. , 2007, , 347-359.		14
72	Design of a mission control system for an AUV. International Journal of Control, 2007, 80, 993-1007.	1.2	6

#	ARTICLE	IF	CITATIONS
73	Mission control system for dam inspection with an AUV. , 2006, , .		17
74	Autonomous underwater vehicle control using reinforcement learning policy search methods. , 2005, , .		8