

Enrico Simetti

List of Publications by Year in descending order

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60
papers

999
citations

516215

16
h-index

500791

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60
all docs

60
docs citations

60
times ranked

692
citing authors

#	ARTICLE	IF	CITATIONS
1	Floating Underwater Manipulation: Developed Control Methodology and Experimental Validation within the TRIDENT Project. <i>Journal of Field Robotics</i> , 2014, 31, 364-385.	3.2	142
2	Manipulation and Transportation With Cooperative Underwater Vehicle Manipulator Systems. <i>IEEE Journal of Oceanic Engineering</i> , 2017, 42, 782-799.	2.1	67
3	A Novel Practical Technique to Integrate Inequality Control Objectives and Task Transitions in Priority Based Control. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2016, 84, 877-902.	2.0	56
4	Autonomous Underwater Intervention: Experimental Results of the MARIS Project. <i>IEEE Journal of Oceanic Engineering</i> , 2018, 43, 620-639.	2.1	53
5	Flexible human-robot cooperation models for assisted shop-floor tasks. <i>Mechatronics</i> , 2018, 51, 97-114.	2.0	52
6	A three-layered architecture for real time path planning and obstacle avoidance for surveillance USVs operating in harbour fields. , 2009, , .		51
7	Autonomous underwater vehicle teams for adaptive ocean sampling: a data-driven approach. <i>Ocean Dynamics</i> , 2011, 61, 1981-1994.	0.9	49
8	Dexterous Underwater Manipulation from Onshore Locations: Streamlining Efficiencies for Remotely Operated Underwater Vehicles. <i>IEEE Robotics and Automation Magazine</i> , 2018, 25, 24-33.	2.2	44
9	Whole body control of a dual arm underwater vehicle manipulator system. <i>Annual Reviews in Control</i> , 2015, 40, 191-200.	4.4	30
10	A Hierarchical Architecture for Human-robot Cooperation Processes. <i>IEEE Transactions on Robotics</i> , 2021, 37, 567-586.	7.3	30
11	Underwater Intervention Robotics: An Outline of the Italian National Project MARIS. <i>Marine Technology Society Journal</i> , 2016, 50, 98-107.	0.3	28
12	Advanced ROV Autonomy for Efficient Remote Control in the DexROV Project. <i>Marine Technology Society Journal</i> , 2016, 50, 67-80.	0.3	25
13	Widely Scalable Mobile Underwater Sonar Technology: An Overview of the H2020 WiMUST Project. <i>Marine Technology Society Journal</i> , 2016, 50, 42-53.	0.3	25
14	WiMUST: A cooperative marine robotic system for autonomous geotechnical surveys. <i>Journal of Field Robotics</i> , 2021, 38, 268-288.	3.2	25
15	Towards the use of a team of USVs for civilian harbour protection: The problem of intercepting detected menaces. , 2010, , .		20
16	Sea Mining Exploration With an UVMS: Experimental Validation of the Control and Perception Framework. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021, 26, 1635-1645.	3.7	19
17	Agility for underwater floating manipulation: Task & subsystem priority based control strategy. , 2012, , .		18
18	Dexterous Undersea Interventions with Far Distance Onshore Supervision: the DexROV Project. <i>IFAC-PapersOnLine</i> , 2016, 49, 414-419.	0.5	18

#	ARTICLE	IF	CITATIONS
19	Experimental results on task priority and dynamic programming based approach to underwater floating manipulation. , 2013, , .		17
20	Underwater Intervention With Remote Supervision via Satellite Communication: Developed Control Architecture and Experimental Results Within the Dexrov Project. IEEE Transactions on Control Systems Technology, 2021, 29, 108-123.	3.2	17
21	On autonomous cooperative Underwater Floating Manipulation Systems. , 2015, , .		16
22	Autonomous Underwater Intervention. Current Robotics Reports, 2020, 1, 117-122.	5.1	16
23	Experimental validation of the modeling and control of a multibody underwater vehicle manipulator system for sea mining exploration. Journal of Field Robotics, 2021, 38, 171-191.	3.2	16
24	RT&sup>&2</sup></sup>: A Real-Time Ray-Tracing method for acoustic distance evaluations among cooperating AUVs. , 2010, , .		12
25	Interleaved Online Task Planning, Simulation, Task Allocation and Motion Control for Flexible Human-Robot Cooperation. , 2018, , .		12
26	Space robotics supporting exploration missions: vision, force control and coordination strategy for crew assistants. Intelligent Service Robotics, 2011, 4, 39-60.	1.6	11
27	Cooperation between autonomous underwater vehicle manipulations systems with minimal information exchange. , 2015, , .		9
28	On cooperation between autonomous underwater floating manipulation systems. , 2015, , .		7
29	Underwater vehicle manipulator systems: Control methodologies for inspection and maintenance tasks. , 2016, , .		7
30	Satellite-Based Tele-Operation of an Underwater Vehicle-Manipulator System. Preliminary Experimental Results. , 2018, , .		7
31	A Unifying Task Priority Approach for Autonomous Underwater Vehicles Integrating Homing and Docking Maneuvers. Journal of Marine Science and Engineering, 2021, 9, 162.	1.2	7
32	Distributed Control and Coordination of Cooperative Mobile Manipulator Systems. , 2009, , 315-324.		7
33	Experimental results on obstacle avoidance for high speed unmanned surface vehicles. , 2014, , .		6
34	Analysis of the accuracy of a LBL-based underwater localization procedure. , 2014, , .		6
35	Cooperative Underwater Manipulation Systems: Control Developments within the MARIS project. IFAC-PapersOnLine, 2015, 48, 1-7.	0.5	6
36	Archimede: Integrated Network-Centric Harbour Protection System. , 2010, , .		5

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37	RT2: real-time ray-tracing for underwater range evaluation. Intelligent Service Robotics, 2011, 4, 259-270.	1.6	5
38	Civilian Harbour Protection: Interception of Suspect Vessels with Unmanned Surface Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 435-440.	0.4	5
39	Towards a Real Time Obstacle Detection System for Unmanned Surface Vehicles. , 2019, , .		5
40	ISME activity on the use of Autonomous Surface and Underwater Vehicles for acoustic surveys at sea. Acta IMEKO (2012), 2018, 7, 24.	0.4	5
41	Experimental validation of an acoustic-based localization technique for AUVs in the absence of information on the speed of sound profile. , 2011, , .		4
42	Overview and first year progress of the Widely scalable Mobile Underwater Sonar Technology H2020 project**This work has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 645141 (WIMUST project, http://www.wimust.eu).. IFAC-PapersOnLine, 2016, 49, 430-433.	0.5	4
43	Control and Perception Framework for Deep Sea Mining Exploration. , 2019, , .		4
44	Robotized Underwater Interventions. Lecture Notes in Control and Information Sciences, 2017, , 365-386.	0.6	4
45	Control oriented modeling of a twin thruster autonomous surface vehicle. Ocean Engineering, 2022, 243, 110260.	1.9	4
46	Visual Servoed Autonomous Landing of an UAV on a Catamaran in a Marine Environment. Sensors, 2022, 22, 3544.	2.1	4
47	Decoupled Sampling-Based Motion Planning for Multiple Autonomous Marine Vehicles. , 2018, , .		3
48	Robotic Technologies for Predictive Maintenance of Assets and Infrastructure [From the Guest Editors]. IEEE Robotics and Automation Magazine, 2018, 25, 9-10.	2.2	3
49	Autonomous Deep Sea Mining Exploration: The EU ROBUST Project Control Framework. , 2019, , .		3
50	ISME research trends: Marine robotics for emergencies at sea. , 2016, , .		2
51	DexROV project: Control framework for underwater interaction tasks. , 2017, , .		2
52	Hydro-acoustic communications and networking in contemporary underwater robotics: instruments and case studies. , 2019, , 263-300.		2
53	A Task Priority and Dynamic Programming Based Approach to Agile Underwater Floating Manipulation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 176-181.	0.4	1
54	Interview with Junku Yuh, Principal Investigator of the SAUVIM Project [History]. IEEE Robotics and Automation Magazine, 2018, 25, 98-99.	2.2	1

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55	Development of the Guidance Navigation and Control System of the Folaga AUV for Autonomous Acoustic Surveys in the WiMUST Project. , 2018, , .		1
56	Visual Servoed Autonomous Landing on a Surface Vessel. , 2019, , .		1
57	A new software architecture for developing and testing algorithms for space exploration missions. Intelligent Service Robotics, 2011, 4, 135-146.	1.6	0
58	Underwater communication requirements in coordinated autonomous manipulation: The MARIS project. , 2016, , .		0
59	Underwater Intervention. , 2018, , 1-7.		0
60	Simulative validations of RT2: A Real-Time Ray-Tracing technique for acoustic-based range evaluation. , 2011, , .		0