

Stefano Chiaverini

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,712
citations

567144

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610775

24
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all docs

56
docs citations

56
times ranked

1248
citing authors

#	ARTICLE	IF	CITATIONS
1	Redundant Robots. , 2021, , 1836-1844.		0
2	Redundant Robots. , 2020, , 1-10.		1
3	Handling robot constraints within a Set-Based Multi-Task Priority Inverse Kinematics Framework. , 2019, , .		9
4	A distributed approach to human multi-robot physical interaction. , 2019, , .		6
5	Safety-Related Tasks Within the Set-Based Task-Priority Inverse Kinematics Framework. , 2018, , .		8
6	Localization of an Array of Hydrophones Towed by an Autonomous Underwater Vehicle. , 2018, , .		0
7	Cooperative Object Transportation by Two Underwater Vehicle-Manipulator Systems. , 2018, , .		2
8	Assistive robot operated via P300-based brain computer interface. , 2017, , .		32
9	A Decentralized Strategy for Multirobot Sampling/Patrolling: Theory and Experiments. IEEE Transactions on Control Systems Technology, 2015, 23, 313-322.	3.2	19
10	Adaptive trajectory tracking for quadrotor MAVs in presence of parameter uncertainties and external disturbances. , 2013, , .		30
11	Experimental validation of a new adaptive control scheme for quadrotors MAVs. , 2013, , .		20
12	A coordination strategy for multi-robot sampling of dynamic fields. , 2012, , .		10
13	Experiments of obstacles and collision avoidance with a distributed multi-robot system. , 2012, , .		3
14	Cooperative caging and transport using autonomous aquatic surface vehicles. Intelligent Service Robotics, 2012, 5, 73-87.	1.6	18
15	Decentralized deployment with obstacle avoidance for AUVs*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12807-12812.	0.4	3
16	The NSB control: a behavior-based approach for multi-robot systems. Paladyn, 2010, 1, 48-56.	1.9	47
17	Flocking for multi-robot systems via the Null-Space-based Behavioral control. Swarm Intelligence, 2010, 4, 37-56.	1.3	63
18	Cooperative caging using autonomous aquatic surface vehicles. , 2010, , .		24

#	ARTICLE	IF	CITATIONS
19	The Null-Space-based Behavioral Control for Mobile Robots with Velocity Actuator Saturations. International Journal of Robotics Research, 2010, 29, 1317-1337.	5.8	49
20	Designing behaviors to improve observability for relative localization of AUVs. , 2010, , .		9
21	Observability analysis of relative localization for AUVs based on ranging and depth measurements. , 2010, , .		29
22	Multi-Robot Collaboration with Range-Limited Communication: Experiments with Two Underactuated ASVs. Springer Tracts in Advanced Robotics, 2010, , 443-453.	0.3	8
23	Prioritized closed-loop inverse kinematic algorithms for redundant robotic systems with velocity saturations. , 2009, , .		27
24	Swarm of robots flocking via the null-space-based behavioral control. , 2009, , .		2
25	The Null-Space based Behavioral control for a team of cooperative mobile robots with actuator saturations. , 2009, , .		10
26	Experiments of Formation Control With Multirobot Systems Using the Null-Space-Based Behavioral Control. IEEE Transactions on Control Systems Technology, 2009, 17, 1173-1182.	3.2	118
27	Constrained motion planning for industrial robots. , 2009, , .		5
28	A fault-tolerant modular control approach to multi-robot perimeter patrol. , 2009, , .		15
29	Guest Editorial Introduction to the Focused Section on Mechatronics in Multirobot Systems. IEEE/ASME Transactions on Mechatronics, 2009, 14, 133-140.	3.7	10
30	The null-space-based behavioral control for autonomous robotic systems. Intelligent Service Robotics, 2008, 1, 27-39.	1.6	151
31	The Entrapment/Escorting Mission. IEEE Robotics and Automation Magazine, 2008, 15, 22-29.	2.2	65
32	Stability analysis for the Null-Space-based Behavioral control for multi-robot systems. , 2008, , .		28
33	Flocking for Multi-Robot Systems via the Null-Space-based Behavioral Control. , 2008, , .		17
34	The NSB control for 3-dimensional flocking of multi-robot systems. , 2008, , .		1
35	SmartMove4: an industrial implementation of trajectory planning for robots. Industrial Robot, 2007, 34, 217-224.	1.2	19
36	The Entrapment/Escorting Mission for a Multi-Robot System: Theory and Experiments. , 2007, , .		14

#	ARTICLE	IF	CITATIONS
37	Experiences of formation control of multi-robot systems with the Null-Space-based Behavioral Control. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	21
38	Use of a Robot Platoon to Implement Mobile Ad-hoc NETWORK in Rescue Scenario - Preliminary Experimental Results. , 2007, , .		6
39	A Fuzzy-Logic-Based Approach for Mobile Robot Path Tracking. IEEE Transactions on Fuzzy Systems, 2007, 15, 211-221.	6.5	184
40	Linear estimation of the physical odometric parameters for differential-drive mobile robots. Autonomous Robots, 2007, 23, 59-68.	3.2	36
41	Formation Control of Underactuated Surface Vessels using the Null-Space-Based Behavioral Control. , 2006, , .		67
42	Kinematic Control of Platoons of Autonomous Vehicles. , 2006, 22, 1285-1292.		146
43	Coordinated control of mobile antennas for ad hoc networks. International Journal of Modelling, Identification and Control, 2006, 1, 63.	0.2	21
44	Linear Estimation of the Odometric Parameters for Differential-Drive Mobile Robots. , 2006, , .		7
45	Experiments of Formation Control with Collisions Avoidance using the Null-Space-Based Behavioral Control. , 2006, , .		22
46	EXPERIMENTAL KINEMATIC COMPARISON OF BEHAVIORAL APPROACHES FOR MOBILE ROBOTS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 295-300.	0.4	6
47	A fuzzy approach to redundancy resolution for underwater vehicle-manipulator systems. Control Engineering Practice, 2003, 11, 445-452.	3.2	29
48	Explicit force control for underwater vehicle-manipulator systems. Robotica, 2002, 20, 251-260.	1.3	10
49	Bandwidth vs. gains design of \hat{H} tracking controllers for current-fed induction motors. Automatica, 2002, 38, 1575-1581.	3.0	3
50	Design of \hat{H} Position Tracking Controllers for Current-Fed Induction Motors Used in Articulated Mechanical Loads. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2002, 124, 485-491.	0.9	0
51	A Fuzzy Approach to Redundancy Resolution for Underwater Vehicle-Manipulator Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 209-214.	0.4	16
52	Closed-Loop Inverse Kinematics Schemes for Constrained Redundant Manipulators with Task Space Augmentation and Task Priority Strategy. International Journal of Robotics Research, 1991, 10, 410-425.	5.8	254
53	Redundancy resolution for the human-arm-like manipulator. Robotics and Autonomous Systems, 1991, 8, 239-250.	3.0	9