

Stefano Chiaverini

List of Publications by Year in descending order

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53
papers

1,712
citations

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docs citations

56
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1248
citing authors

#	ARTICLE	IF	CITATIONS
1	Closed-Loop Inverse Kinematics Schemes for Constrained Redundant Manipulators with Task Space Augmentation and Task Priority Strategy. <i>International Journal of Robotics Research</i> , 1991, 10, 410-425.	5.8	254
2	A Fuzzy-Logic-Based Approach for Mobile Robot Path Tracking. <i>IEEE Transactions on Fuzzy Systems</i> , 2007, 15, 211-221.	6.5	184
3	The null-space-based behavioral control for autonomous robotic systems. <i>Intelligent Service Robotics</i> , 2008, 1, 27-39.	1.6	151
4	Kinematic Control of Platoons of Autonomous Vehicles. , 2006, 22, 1285-1292.		146
5	Experiments of Formation Control With Multirobot Systems Using the Null-Space-Based Behavioral Control. <i>IEEE Transactions on Control Systems Technology</i> , 2009, 17, 1173-1182.	3.2	118
6	Formation Control of Underactuated Surface Vessels using the Null-Space-Based Behavioral Control. , 2006, , .		67
7	The Entrapment/Escorting Mission. <i>IEEE Robotics and Automation Magazine</i> , 2008, 15, 22-29.	2.2	65
8	Flocking for multi-robot systems via the Null-Space-based Behavioral control. <i>Swarm Intelligence</i> , 2010, 4, 37-56.	1.3	63
9	The Null-Space-based Behavioral Control for Mobile Robots with Velocity Actuator Saturations. <i>International Journal of Robotics Research</i> , 2010, 29, 1317-1337.	5.8	49
10	The NSB control: a behavior-based approach for multi-robot systems. <i>Paladyn</i> , 2010, 1, 48-56.	1.9	47
11	Linear estimation of the physical odometric parameters for differential-drive mobile robots. <i>Autonomous Robots</i> , 2007, 23, 59-68.	3.2	36
12	Assistive robot operated via P300-based brain computer interface. , 2017, , .		32
13	Adaptive trajectory tracking for quadrotor MAVs in presence of parameter uncertainties and external disturbances. , 2013, , .		30
14	A fuzzy approach to redundancy resolution for underwater vehicle-manipulator systems. <i>Control Engineering Practice</i> , 2003, 11, 445-452.	3.2	29
15	Observability analysis of relative localization for AUVs based on ranging and depth measurements. , 2010, , .		29
16	Stability analysis for the Null-Space-based Behavioral control for multi-robot systems. , 2008, , .		28
17	Prioritized closed-loop inverse kinematic algorithms for redundant robotic systems with velocity saturations. , 2009, , .		27
18	Cooperative caging using autonomous aquatic surface vehicles. , 2010, , .		24

#	ARTICLE	IF	CITATIONS
19	Experiments of Formation Control with Collisions Avoidance using the Null-Space-Based Behavioral Control. , 2006, , .		22
20	Coordinated control of mobile antennas for ad hoc networks. International Journal of Modelling, Identification and Control, 2006, 1, 63.	0.2	21
21	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
22	Experimental validation of a new adaptive control scheme for quadrotors MAVs. , 2013, , .		20
23	SmartMove4: an industrial implementation of trajectory planning for robots. Industrial Robot, 2007, 34, 217-224.	1.2	19
24	A Decentralized Strategy for Multirobot Sampling/Patrolling: Theory and Experiments. IEEE Transactions on Control Systems Technology, 2015, 23, 313-322.	3.2	19
25	Cooperative caging and transport using autonomous aquatic surface vehicles. Intelligent Service Robotics, 2012, 5, 73-87.	1.6	18
26	Flocking for Multi-Robot Systems via the Null-Space-based Behavioral Control. , 2008, , .		17
27	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
28	A fault-tolerant modular control approach to multi-robot perimeter patrol. , 2009, , .		15
29	The Entrapment/Escorting Mission for a Multi-Robot System: Theory and Experiments. , 2007, , .		14
30	Explicit force control for underwater vehicle-manipulator systems. Robotica, 2002, 20, 251-260.	1.3	10
31	The Null-Space based Behavioral control for a team of cooperative mobile robots with actuator saturations. , 2009, , .		10
32	Guest Editorial Introduction to the Focused Section on Mechatronics in Multirobot Systems. IEEE/ASME Transactions on Mechatronics, 2009, 14, 133-140.	3.7	10
33	A coordination strategy for multi-robot sampling of dynamic fields. , 2012, , .		10
34	Redundancy resolution for the human-arm-like manipulator. Robotics and Autonomous Systems, 1991, 8, 239-250.	3.0	9
35	Designing behaviors to improve observability for relative localization of AUVs. , 2010, , .		9
36	Handling robot constraints within a Set-Based Multi-Task Priority Inverse Kinematics Framework. , 2019, , .		9

#	ARTICLE	IF	CITATIONS
37	Safety-Related Tasks Within the Set-Based Task-Priority Inverse Kinematics Framework. , 2018, , .		8
38	Multi-Robot Collaboration with Range-Limited Communication: Experiments with Two Underactuated ASVs. Springer Tracts in Advanced Robotics, 2010, , 443-453.	0.3	8
39	Linear Estimation of the Odometric Parameters for Differential-Drive Mobile Robots. , 2006, , .		7
40	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
41	Use of a Robot Platoon to Implement Mobile Ad-hoc NETWORK in Rescue Scenario - Preliminary Experimental Results. , 2007, , .		6
42	A distributed approach to human multi-robot physical interaction. , 2019, , .		6
43	Constrained motion planning for industrial robots. , 2009, , .		5
44	Bandwidth vs. gains design of H \hat{z} tracking controllers for current-fed induction motors. Automatica, 2002, 38, 1575-1581.	3.0	3
45	Decentralized deployment with obstacle avoidance for AUVs*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12807-12812.	0.4	3
46	Experiments of obstacles and collision avoidance with a distributed multi-robot system. , 2012, , .		3
47	Swarm of robots flocking via the null-space-based behavioral control. , 2009, , .		2
48	Cooperative Object Transportation by Two Underwater Vehicle-Manipulator Systems. , 2018, , .		2
49	The NSB control for 3-dimensional flocking of multi-robot systems. , 2008, , .		1
50	Redundant Robots. , 2020, , 1-10.		1
51	Localization of an Array of Hydrophones Towed by an Autonomous Underwater Vehicle. , 2018, , .		0
52	Redundant Robots. , 2021, , 1836-1844.		0
53	Design of H \hat{z} 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