

Carlos SagÃ^{1/4}Ã©s

List of Publications by Year in descending order

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117
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docs citations

121
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1698
citing authors

#	ARTICLE	IF	CITATIONS
1	Rauch-Tung-Striebel Smoother for Position Estimation of Short-Stroke Reluctance Actuators. IEEE Transactions on Control Systems Technology, 2022, 30, 1641-1653.	5.2	1
2	Coverage of deformable contour shapes with minimal multi-camera system. Measurement: Journal of the International Measurement Confederation, 2022, 190, 110693.	5.0	3
3	REDCHO: Robust Exact Dynamic Consensus of High Order. Automatica, 2022, 141, 110320.	5.0	4
4	Dynamic Consensus With Prescribed Convergence Time for Multileader Formation Tracking. , 2022, 6, 3014-3019.		5
5	Adaptive Multirobot Implicit Control of Heterogeneous Herds. IEEE Transactions on Robotics, 2022, 38, 3622-3635.	10.3	5
6	Enclosing a moving target with an optimally rotated and scaled multiagent pattern. International Journal of Control, 2021, 94, 601-611.	1.9	4
7	Intermittent Connectivity Maintenance With Heterogeneous Robots. IEEE Transactions on Robotics, 2021, 37, 225-245.	10.3	6
8	An efficient dynamical model of reluctance actuators with flux fringing and magnetic hysteresis. Mechatronics, 2021, 74, 102500.	3.3	8
9	EDCHO: High order exact dynamic consensus. Automatica, 2021, 131, 109750.	5.0	11
10	Collision-free transport of 2D deformable objects. , 2021, , .		1
11	Probability-Based Optimal Control Design for Soft Landing of Short-Stroke Actuators. IEEE Transactions on Control Systems Technology, 2020, 28, 1956-1963.	5.2	8
12	Run-to-Run Control With Bayesian Optimization for Soft Landing of Short-Stroke Reluctance Actuators. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2645-2656.	5.8	10
13	Distributed Relative Localization Using the Multidimensional Weighted Centroid. IEEE Transactions on Control of Network Systems, 2020, 7, 1272-1282.	3.7	3
14	Predictor-feedback synthesis in coordinate-free formation control under time-varying delays. Automatica, 2020, 113, 108811.	5.0	8
15	Weighted predictor-feedback formation control in local frames under time-varying delays and switching topology. International Journal of Robust and Nonlinear Control, 2020, 30, 3484-3500.	3.7	4
16	EDC: Exact Dynamic Consensus. IFAC-PapersOnLine, 2020, 53, 2921-2926.	0.9	2
17	Model-Free Sliding-Mode Controller for Soft Landing of Reluctance Actuators. IFAC-PapersOnLine, 2020, 53, 6256-6261.	0.9	2
18	Real-Time Electromagnetic Estimation for Reluctance Actuators. IEEE Transactions on Industrial Electronics, 2019, 66, 1952-1961.	7.9	16

#	ARTICLE	IF	CITATIONS
19	Scale-Free Vision-Based Aerial Control of a Ground Formation With Hybrid Topology. IEEE Transactions on Control Systems Technology, 2019, 27, 1703-1711.	5.2	3
20	Robust stability analysis of formation control in local frames under time-varying delays and actuator faults. Journal of the Franklin Institute, 2019, 356, 1131-1153.	3.4	9
21	Survey on multi-robot manipulation of deformable objects. , 2019, , .		33
22	Multi-camera coverage of deformable contour shapes. , 2019, , .		5
23	Equitable persistent coverage of non-convex environments with graph-based planning. International Journal of Robotics Research, 2019, 38, 1674-1694.	8.5	9
24	A Novel Algorithm Based on Bayesian Optimization for Run-to-Run Control of Short-Stroke Reluctance Actuators. , 2019, , .		2
25	Hybrid Dynamical Model for Reluctance Actuators Including Saturation, Hysteresis, and Eddy Currents. IEEE/ASME Transactions on Mechatronics, 2019, 24, 1396-1406.	5.8	30
26	Formation control synthesis in local frames under communication delays and switching topology: An LMI approach. , 2019, , .		1
27	Cooperative Periodic Coverage With Collision Avoidance. IEEE Transactions on Control Systems Technology, 2019, 27, 1411-1422.	5.2	8
28	Optimal Open-Loop Control Policies for a Class of Nonlinear Actuators. , 2019, , .		1
29	Reluctance actuator characterization via FEM simulations and experimental tests. Mechatronics, 2018, 56, 58-66.	3.3	12
30	Simultaneous Deployment and Tracking Multi-Robot Strategies with Connectivity Maintenance. Sensors, 2018, 18, 927.	3.8	9
31	Stability analysis of nonholonomic multiagent coordinate-free formation control subject to communication delays. International Journal of Robust and Nonlinear Control, 2018, 28, 4121-4138.	3.7	10
32	Controlling Mobile Robot Teams from 1D Homographies. Advances in Industrial Control, 2017, , 79-102.	0.5	0
33	Coordinate-Free Control of Multirobot Formations. Advances in Industrial Control, 2017, , 131-181.	0.5	1
34	A New Run-to-Run Approach for Reducing Contact Bounce in Electromagnetic Switches. IEEE Transactions on Industrial Electronics, 2017, 64, 535-543.	7.9	37
35	Fast distributed algebraic connectivity estimation in large scale networks. Journal of the Franklin Institute, 2017, 354, 5421-5442.	3.4	6
36	Optimal path planning and coverage control for multi-robot persistent coverage in environments with obstacles. , 2017, , .		13

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37	Modeling of pancake frying with non-uniform heating source applied to domestic cookers. Journal of Food Engineering, 2017, 195, 114-127.	5.2	16
38	Time delay compensation based on Smith Predictor in multiagent formation control. IFAC-PapersOnLine, 2017, 50, 11645-11651.	0.9	11
39	Nonlinear bounded state estimation for sensorless control of an electromagnetic device. , 2017, , .		6
40	Angle-Based Navigation Using the 1D Trifocal Tensor. Advances in Industrial Control, 2017, , 19-51.	0.5	2
41	Vision-Based Control for Nonholonomic Vehicles. Advances in Industrial Control, 2017, , 53-77.	0.5	0
42	Conclusions and Directions for Future Research. Advances in Industrial Control, 2017, , 183-184.	0.5	0
43	Control of Mobile Robot Formations Using Aerial Cameras. Advances in Industrial Control, 2017, , 103-130.	0.5	0
44	Multi-robot persistent coverage with optimal times. , 2016, , .		2
45	Vision-Based Distributed Formation Control Without an External Positioning System. IEEE Transactions on Robotics, 2016, 32, 339-351.	10.3	114
46	Connectivity-preserving formation stabilization of unicycles in local coordinates using minimum spanning tree. , 2016, , .		2
47	Epipole-Based Guidance for an Autonomous Glider. Journal of Guidance, Control, and Dynamics, 2016, 39, 2073-2085.	2.8	1
48	Distributed Coverage Estimation and Control for Multirobot Persistent Tasks. IEEE Transactions on Robotics, 2016, 32, 1444-1460.	10.3	44
49	Multi-robot persistent coverage using branch and bound. , 2016, , .		11
50	Adaptive Action for Multi-Agent Persistent Coverage. Asian Journal of Control, 2016, 18, 419-432.	3.0	4
51	Distributed formation control of non-holonomic robots without a global reference frame. , 2016, , .		9
52	Dynamic heat and mass transfer model of an electric oven for energy analysis. Applied Thermal Engineering, 2016, 93, 683-691.	6.0	20
53	Distributed Formation Stabilization Using Relative Position Measurements in Local Coordinates. IEEE Transactions on Automatic Control, 2016, 61, 3925-3935.	5.7	32
54	Power Distribution in Coupled Multiple-Coil Inductors for Induction Heating Appliances. IEEE Transactions on Industry Applications, 2016, 52, 2537-2544.	4.9	16

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55	A New Model of Electromechanical Relays for Predicting the Motion and Electromagnetic Dynamics. IEEE Transactions on Industry Applications, 2016, 52, 2545-2553.	4.9	40
56	Inverse modeling of pan heating in domestic cookers. Applied Thermal Engineering, 2016, 92, 137-148.	6.0	26
57	Distributed coverage estimation for multi-robot persistent tasks. , 2015, , .		1
58	Feature-based map merging with dynamic consensus on information increments. Autonomous Robots, 2015, 38, 243-259.	4.8	9
59	Distributed Consensus with Visual Perception in Multi-Robot Systems. , 2015, , .		6
60	Induction Heating Appliance With a Mobile Double-Coil Inductor. IEEE Transactions on Industry Applications, 2015, 51, 1945-1952.	4.9	30
61	Average consensus on strongly connected weighted digraphs: A generalized error bound. Automatica, 2015, 58, 1-4.	5.0	11
62	Coordinate-free formation stabilization based on relative position measurements. Automatica, 2015, 57, 11-20.	5.0	38
63	Persistent coverage control for a team of agents with collision avoidance. European Journal of Control, 2015, 22, 30-45.	2.6	34
64	Formation Control of Mobile Robots Using Multiple Aerial Cameras. IEEE Transactions on Robotics, 2015, 31, 1064-1071.	10.3	47
65	Distributed Robust Consensus Using RANSAC and Dynamic Opinions. IEEE Transactions on Control Systems Technology, 2015, 23, 150-163.	5.2	14
66	Map Merging. SpringerBriefs in Computer Science, 2015, , 65-87.	0.2	0
67	Distributed Localization. SpringerBriefs in Computer Science, 2015, , 37-64.	0.2	0
68	Distributed Data Association. SpringerBriefs in Computer Science, 2015, , 11-36.	0.2	0
69	Thermal modeling, analysis and control using an electrical analogy. , 2014, , .		15
70	Robust discrete time dynamic average consensus. Automatica, 2014, 50, 3131-3138.	5.0	55
71	Distributed algebraic connectivity estimation for undirected graphs with upper and lower bounds. Automatica, 2014, 50, 3253-3259.	5.0	44
72	Step size analysis in discrete-time dynamic average consensus. , 2014, , .		9

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73	Noisy Range Network Localization based on Distributed Multidimensional Scaling. IEEE Sensors Journal, 2014, , 1-1.	4.7	19
74	Triggered Minimum Spanning Tree for distributed coverage with connectivity maintenance. , 2014, , .		12
75	A distributed algorithm for average consensus on strongly connected weighted digraphs. Automatica, 2014, 50, 946-951.	5.0	36
76	Visual navigation of wheeled mobile robots using direct feedback of a geometric constraint. Autonomous Robots, 2014, 37, 137-156.	4.8	17
77	Distributed formation control without a global reference frame. , 2014, , .		38
78	A single visual-servo controller of mobile robots with super-twisting control. Robotics and Autonomous Systems, 2014, 62, 1623-1635.	5.1	17
79	Three-dimensional multirobot formation control for target enclosing. , 2014, , .		20
80	Multi-robot Formations: One Homography to Rule Them All. Advances in Intelligent Systems and Computing, 2014, , 703-714.	0.6	2
81	Persistent coverage control with variable coverage action in multi-robot environment. , 2013, , .		17
82	Human-Computer Interaction Based on Hand Gestures Using RGB-D Sensors. Sensors, 2013, 13, 11842-11860.	3.8	71
83	Epipolar Visual Servoing for Multirobot Distributed Consensus. IEEE Transactions on Robotics, 2013, 29, 1212-1225.	10.3	25
84	Distributed Data Association in Robotic Networks With Cameras and Limited Communications. IEEE Transactions on Robotics, 2013, 29, 1408-1423.	10.3	27
85	Chebyshev Polynomials in Distributed Consensus Applications. IEEE Transactions on Signal Processing, 2013, 61, 693-706.	5.3	37
86	Angle-based homing from a reference image set using the 1D trifocal tensor. Autonomous Robots, 2013, 34, 73-91.	4.8	5
87	Sinusoidal input-based visual control for nonholonomic vehicles. Robotica, 2013, 31, 811-823.	1.9	3
88	Controlling Multiple Robots through Multiple 1D Homographies. , 2013, , .		1
89	A decentralized algorithm for balancing a strongly connected weighted digraph. , 2013, , .		28
90	Distributed entrapment for multi-robot systems with uncertainties. , 2013, , .		12

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91	Feature-based map merging with dynamic consensus on information increments. , 2013, , .		4
92	Distributed map merging with consensus on common information. , 2013, , .		3
93	Distributed Consensus on Robot Networks for Dynamically Merging Feature-Based Maps. IEEE Transactions on Robotics, 2012, 28, 840-854.	10.3	97
94	Visual Control for Multirobot Organized Rendezvous. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 1155-1168.	5.0	23
95	Planar motion estimation from 1D homographies. , 2012, , .		3
96	Inductive Sensor for Temperature Measurement in Induction Heating Applications. IEEE Sensors Journal, 2012, 12, 996-1003.	4.7	32
97	Distributed centroid estimation from noisy relative measurements. Systems and Control Letters, 2012, 61, 773-779.	2.3	20
98	Adaptive Simmering Control for Domestic Induction Cookers. IEEE Transactions on Industry Applications, 2011, 47, 2257-2267.	4.9	30
99	A Sliding-Mode-Control Law for Mobile Robots Based on Epipolar Visual Servoing From Three Views. IEEE Transactions on Robotics, 2011, 27, 175-183.	10.3	85
100	Optimal reset adaptive observer design. Systems and Control Letters, 2011, 60, 877-883.	2.3	20
101	Vision-based exponential stabilization of mobile robots. Autonomous Robots, 2011, 30, 293-306.	4.8	10
102	Distributed multi-camera visual mapping using topological maps of planar regions. Pattern Recognition, 2011, 44, 1528-1539.	8.1	15
103	Distributed consensus algorithms for merging feature-based maps with limited communication. Robotics and Autonomous Systems, 2011, 59, 163-180.	5.1	36
104	Adaptive consensus and algebraic connectivity estimation in sensor networks with chebyshev polynomials. , 2011, , .		10
105	Fast distributed consensus with Chebyshev polynomials. , 2011, , .		7
106	Distributed robust data fusion based on dynamic voting. , 2011, , .		7
107	Multi-robot distributed visual consensus using epipoles. , 2011, , .		9
108	Visual control through the trifocal tensor for nonholonomic robots. Robotics and Autonomous Systems, 2010, 58, 216-226.	5.1	42

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109	Multiple homographies with omnidirectional vision for robot homing. Robotics and Autonomous Systems, 2010, 58, 773-783.	5.1	19
110	Visual control of vehicles using two-view geometry. Mechatronics, 2010, 20, 315-325.	3.3	34
111	Homography-Based Control Scheme for Mobile Robots With Nonholonomic and Field-of-View Constraints. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 1115-1127.	5.0	88
112	Photogrammetric Methodology for the Production of Geomorphologic Maps: Application to the Veleta Rock Glacier (Sierra Nevada, Granada, Spain). Remote Sensing, 2009, 1, 829-841.	4.0	16
113	Adaptive Observers Applied to Pan Temperature Control of Induction Hobs. IEEE Transactions on Industry Applications, 2009, 45, 1116-1125.	4.9	23
114	From lines to epipoles through planes in two views. Pattern Recognition, 2006, 39, 384-393.	8.1	19
115	Visual map-less navigation based on homographies. Journal of Field Robotics, 2005, 22, 569-581.	0.7	19
116	Visual correction for mobile robot homing. Robotics and Autonomous Systems, 2005, 50, 41-49.	5.1	44
117	Minimal multi-camera system for perception of deformable shapes. Jornadas De Jóvenes Investigadores Del I3A, 0, 7, .	0.0	1