

Hector Garcia de Marina

List of Publications by Year in descending order

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papers

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47
docs citations

47
times ranked

703
citing authors

#	ARTICLE	IF	CITATIONS
1	UAV Attitude Estimation Using Unscented Kalman Filter and TRIAD. IEEE Transactions on Industrial Electronics, 2012, 59, 4465-4474.	5.2	174
2	Distributed Rotational and Translational Maneuvering of Rigid Formations and Their Applications. IEEE Transactions on Robotics, 2016, 32, 684-697.	7.3	100
3	Controlling Rigid Formations of Mobile Agents Under Inconsistent Measurements. IEEE Transactions on Robotics, 2015, 31, 31-39.	7.3	76
4	Circular Formation Control of Multiple Unicycle-Type Agents With Nonidentical Constant Speeds. IEEE Transactions on Control Systems Technology, 2019, 27, 192-205.	3.2	49
5	Distributed formation tracking using local coordinate systems. Systems and Control Letters, 2018, 111, 70-78.	1.3	42
6	Adaptive UAV Attitude Estimation Employing Unscented Kalman Filter, FOAM and Low-Cost MEMS Sensors. Sensors, 2012, 12, 9566-9585.	2.1	39
7	Taming Mismatches in Inter-agent Distances for the Formation-Motion Control of Second-Order Agents. IEEE Transactions on Automatic Control, 2018, 63, 449-462.	3.6	33
8	Singularity-Free Guiding Vector Field for Robot Navigation. IEEE Transactions on Robotics, 2021, 37, 1206-1221.	7.3	32
9	Guidance algorithm for smooth trajectory tracking of a fixed wing UAV flying in wind flows. , 2017, , .		26
10	A Variational Integrator for the distance-based formation control of multi-agent systems. IFAC-PapersOnLine, 2018, 51, 76-81.	0.5	23
11	Flexible collaborative transportation by a team of rotorcraft. , 2019, , .		20
12	Angle-Constrained Formation Control for Circular Mobile Robots. , 2021, 5, 109-114.		20
13	Circular formation control of fixed-wing UAVs with constant speeds. , 2017, , .		18
14	Maneuvering and Robustness Issues in Undirected Displacement-Consensus-Based Formation Control. IEEE Transactions on Automatic Control, 2021, 66, 3370-3377.	3.6	17
15	Guiding vector field algorithm for a moving path following problem * *The work was supported in part by the European Research Council (ERC-StG-307207), the Netherlands Organization for Scientific Research (NWO-vidi-14134) and RFBR, grants 17-08-01728, 17-08-00715 and 17-08-01266. IFAC-PapersOnLine, 2017, 50, 6983-6988.	0.5	15
16	Development of A Fixed-Wing mini UAV with Transitioning Flight Capability. , 2017, , .		14
17	Towards automatic oil spill confinement with Autonomous Marine Surface Vehicles. , 2011, , .		13
18	Distributed formation maneuver control by manipulating the complex Laplacian. Automatica, 2021, 132, 109813.	3.0	13

#	ARTICLE	IF	CITATIONS
19	Controlling triangular formations of autonomous agents in finite time using coarse measurements. , 2014, , .		11
20	Collaborative Target-Tracking Control Using Multiple Fixed-Wing Unmanned Aerial Vehicles with Constant Speeds. Journal of Guidance, Control, and Dynamics, 2021, 44, 238-250.	1.6	11
21	Maneuvering Formations of Mobile Agents Using Designed Mismatched Angles. IEEE Transactions on Automatic Control, 2022, 67, 1655-1668.	3.6	10
22	Distributed coordinated path following using guiding vector fields. , 2021, , .		10
23	In-Flight Thrust Measurement using On-Board Force Sensor. , 2017, , .		9
24	Quantization effects and convergence properties of rigid formation control systems with quantized distance measurements. International Journal of Robust and Nonlinear Control, 2018, 28, 4865-4884.	2.1	8
25	Forced Variational Integrators for the Formation Control of Multiagent Systems. IEEE Transactions on Control of Network Systems, 2021, 8, 1336-1347.	2.4	8
26	Distributed scaling control of rigid formations. , 2016, , .		7
27	Distributed algorithm for controlling scale-free polygonal formations * *The work of Hector Garcia de Marina was supported by Mistrale project, http://mistrale.eu . The work of Cao was supported in part by the European Research Council (ERC-StG-307207) and the Netherlands Organization for Scientific Research (NWO-vidi-14134).. IFAC-PapersOnLine, 2017, 50, 1760-1765.	0.5	6
28	A development project of autonomous marine surface vehicles for sea demining. , 2010, , .		5
29	Optimization-based worst-case analysis of a launcher during the atmospheric ascent phase. , 2013, , .		5
30	Forced variational integrator for distance-based shape control with flocking behavior of multi-agent systems. IFAC-PapersOnLine, 2020, 53, 3348-3353.	0.5	5
31	Sea demining with autonomous marine surface vehicles. , 2010, , .		4
32	Controlling Formations of Autonomous Agents with Distance Disagreements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 411-416.	0.4	4
33	Controlling a triangular flexible formation of autonomous agents. * *The work of Hector Garcia de Marina was supported by Mis-trale project, http://mistrale.eu . The work of Zhiyong Sun and Brian Anderson was supported by the Australian Research Council Grants DP160104500, DP130103610 and the Prime Ministers Australia Asia Incoming Endeavour Postgraduate Award. The work of Cao was supported in part by the European Research Council (ERC-StG-307207) and the Netherlands		

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37	Multi-robot motion-formation distributed control with sensor self-calibration: experimental validation. , 2018, , .		3
38	Stabilizing and Maneuvering Angle Rigid Multiagent Formations With Double-Integrator Agent Dynamics. IEEE Transactions on Control of Network Systems, 2022, 9, 1362-1374.	2.4	3
39	Angle of Attack and True Airspeed failure sensor detection and recovery based on Unscented Kalman Filters for the ALPHA vehicle. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1197-1202.	0.4	2
40	Quantization effects in rigid formation control. , 2016, , .		2
41	Developing an Autonomous Surface Ship for Sea Demining: First Steps. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 91-96.	0.4	1
42	On the stability and applications of distance-based flexible formations. , 2018, , .		1
43	Stability Analysis of Gradient-Based Distributed Formation Control with Heterogeneous Sensing Mechanism: the Three Robot Case. IEEE Transactions on Automatic Control, 2021, , 1-1.	3.6	1
44	Leaderless collective motions in affine formation control. , 2021, , .		1
45	Path planning combined with Fuzzy control for autonomous ships. , 2010, , .		0
46	On the Role and Compensation of Distance Mismatches in Rigid Formation Control for Second-Order Agents**This work was supported by the the EU INTERREG program under the auspices of the SMARTBOT project and the work of Cao was also supported by the European Research Council (ERC-StG-307207).. IFAC-PapersOnLine, 2016, 49, 398-403.	0.5	0
47	On the observability of relative positions in left-invariant multi-agent control systems and its application to formation control. , 2019, , .		0