

Hector Garcia de Marina

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3995773/publications.pdf>

Version: 2024-02-01

47
papers

856
citations

758635

12
h-index

610482

24
g-index

47
all docs

47
docs citations

47
times ranked

703
citing authors

#	ARTICLE	IF	CITATIONS
1	Maneuvering Formations of Mobile Agents Using Designed Mismatched Angles. IEEE Transactions on Automatic Control, 2022, 67, 1655-1668.	3.6	10
2	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
3	Angle-Constrained Formation Control for Circular Mobile Robots. , 2021, 5, 109-114.		20
4	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
5	Maneuvering and Robustness Issues in Undirected Displacement-Consensus-Based Formation Control. IEEE Transactions on Automatic Control, 2021, 66, 3370-3377.	3.6	17
6	Singularity-Free Guiding Vector Field for Robot Navigation. IEEE Transactions on Robotics, 2021, 37, 1206-1221.	7.3	32
7	Forced Variational Integrators for the Formation Control of Multiagent Systems. IEEE Transactions on Control of Network Systems, 2021, 8, 1336-1347.	2.4	8
8	Distributed formation maneuver control by manipulating the complex Laplacian. Automatica, 2021, 132, 109813.	3.0	13
9	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
10	Distributed coordinated path following using guiding vector fields. , 2021, , .		10
11	Distributed formation control of manipulatorsâ€™ end-effector with internal model-based disturbance rejection. , 2021, , .		4
12	Leaderless collective motions in affine formation control. , 2021, , .		1
13	Forced variational integrator for distance-based shape control with flocking behavior of multi-agent systems. IFAC-PapersOnLine, 2020, 53, 3348-3353.	0.5	5
14	Flexible collaborative transportation by a team of rotorcraft. , 2019, , .		20
15	On the observability of relative positions in left-invariant multi-agent control systems and its application to formation control. , 2019, , .		0
16	Triangular formation maneuver using designed mismatched angles. , 2019, , .		4
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Distributed formation tracking using local coordinate systems. Systems and Control Letters, 2018, 111, 70-78.	1.3	42
20	Multi-robot motion-formation distributed control with sensor self-calibration: experimental validation. , 2018, , .		3
21	A Variational Integrator for the distance-based formation control of multi-agent systems. IFAC-PapersOnLine, 2018, 51, 76-81.	0.5	23
22	On the stability and applications of distance-based flexible formations. , 2018, , .		1
23	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
24	In-Flight Thrust Measurement using On-Board Force Sensor. , 2017, , .		9
25	Guidance algorithm for smooth trajectory tracking of a fixed wing UAV flying in wind flows. , 2017, , .		26
26	System simulation of a fleet of drones to probe cumulus clouds. , 2017, , .		3
27	Development of A Fixed-Wing mini UAV with Transitioning Flight Capability. , 2017, , .		14
28	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		

#	ARTICLE	IF	CITATIONS
37	Controlling triangular formations of autonomous agents in finite time using coarse measurements. , 2014, , .		11
38	Optimization-based worst-case analysis of a launcher during the atmospheric ascent phase. , 2013, , .		5
39	Controlling Formations of Autonomous Agents with Distance Disagreements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 411-416.	0.4	4
40	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
41	UAV Attitude Estimation Using Unscented Kalman Filter and TRIAD. IEEE Transactions on Industrial Electronics, 2012, 59, 4465-4474.	5.2	174
42	Adaptive UAV Attitude Estimation Employing Unscented Kalman Filter, FOAM and Low-Cost MEMS Sensors. Sensors, 2012, 12, 9566-9585.	2.1	39
43	Towards automatic oil spill confinement with Autonomous Marine Surface Vehicles. , 2011, , .		13
44	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
45	Sea demining with autonomous marine surface vehicles. , 2010, , .		4
46	A development project of autonomous marine surface vehicles for sea demining. , 2010, , .		5
47	Path planning combined with Fuzzy control for autonomous ships. , 2010, , .		0