Antonio Giannitrapani

List of Publications by Year
in descending order

50 papers	1,136 citations	567144 15 h-index	501076 28 g-index
51 all docs	51 docs citations	51 times ranked	1146 citing authors

#	Article	IF	Citations
1	Collective circular motion of multi-vehicle systems. Automatica, 2008, 44, 3025-3035.	3.0	152
2	Walking Ahead: The Headed Social Force Model. PLoS ONE, 2017, 12, e0169734.	1.1	91
3	A community microgrid architecture with an internal local market. Applied Energy, 2019, 242, 547-560.	5.1	88
4	Comparison of EKF and UKF for Spacecraft Localization via Angle Measurements. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 75-84.	2.6	85
5	Simultaneous localization and map building for a team of cooperating robots: a set membership approach. IEEE Transactions on Automation Science and Engineering, 2003, 19, 238-249.	2.4	63
6	Navigation assistance and guidance of older adults across complex public spaces: the DALiÂapproach. Intelligent Service Robotics, 2015, 8, 77-92.	1.6	58
7	Propulsion options for very low Earth orbit microsatellites. Acta Astronautica, 2017, 133, 444-454.	1.7	52
8	Analysis of consensus protocols with bounded measurement errors. Systems and Control Letters, 2011, 60, 44-52.	1.3	51
9	A Set Theoretic Approach to Dynamic Robot Localization and Mapping. Autonomous Robots, 2004, 16, 23-47.	3.2	38
10	Upper Body Pose Estimation Using Wearable Inertial Sensors and Multiplicative Kalman Filter. IEEE Sensors Journal, 2020, 20, 492-500.	2.4	33
11	Autonomous Low-Earth-Orbit Station-Keeping with Electric Propulsion. Journal of Guidance, Control, and Dynamics, 2011, 34, 1683-1693.	1.6	30
12	Load forecasting for active distribution networks. , 2011, , .		29
13	A new approach to electricity market clearing with uniform purchase price and curtailable block orders. Applied Energy, 2018, 226, 618-630.	5.1	28
14	A Remote Lab for Experiments with a Team of Mobile Robots. Sensors, 2014, 14, 16486-16507.	2.1	27
15	Bidding Wind Energy Exploiting Wind Speed Forecasts. IEEE Transactions on Power Systems, 2016, 31, 2647-2656.	4.6	27
16	Dynamic Performance of Mobile Haptic Interfaces. , 2008, 24, 559-575.		20
17	A distributed asynchronous method of multipliers for constrained nonconvex optimization. Automatica, 2019, 103, 243-253.	3.0	20
18	A set-membership approach to consensus problems with bounded measurement errors. , 2008, , .		16

#	Article	IF	Citations
19	A passive guidance system for a robotic walking assistant using brakes. , 2015, , .		16
20	Sum-of-Norms Model Predictive Control for Spacecraft Maneuvering. , 2019, 3, 649-654.		16
21	Orbit Control Techniques for Space Debris Removal Missions Using Electric Propulsion. Journal of Guidance, Control, and Dynamics, 2020, 43, 1259-1268.	1.6	16
22	All-Electric Spacecraft Precision Pointing Using Model Predictive Control. Journal of Guidance, Control, and Dynamics, 2015, 38, 161-168.	1.6	15
23	A LEGO Mindstorms experimental setup for multi-agent systems. , 2009, , .		14
24	A LEGO Mindstorms multi-robot setup in the Automatic Control Telelab. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9812-9817.	0.4	13
25	Experimental validation of collective circular motion for nonholonomic multi-vehicle systems. Robotics and Autonomous Systems, 2010, 58, 1028-1036.	3.0	12
26	Unicycle steering by brakes: A passive guidance support for an assistive cart. , 2013, , .		11
27	Maintaining connectivity among multiple agents in cyclic pursuit: A geometric approach. , 2010, , .		10
28	Cooperative SLAM using -Space representation of linear features. Robotics and Autonomous Systems, 2012, 60, 1267-1278.	3.0	10
29	State Feedback Control in Equinoctial Variables for Orbit Phasing Applications. Journal of Guidance, Control, and Dynamics, 2018, 41, 1815-1822.	1.6	9
30	A Matlab-based Remote Lab for Multi-Robot Experiments. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 42, 162-167.	0.4	8
31	Minimum switching control for systems of coupled double integrators. Automatica, 2015, 60, 115-121.	3.0	8
32	An MPC-based attitude control system for all-electric spacecraft with on/off actuators. , 2013, , .		7
33	Minimum switching limit cycle oscillations for systems of coupled double integrators. , 2014, , .		7
34	A class of globally stabilizing feedback controllers for the orbital rendezvous problem. International Journal of Robust and Nonlinear Control, 2017, 27, 4607-4621.	2.1	6
35	Distributed Interpolatory Algorithms for Set Membership Estimation. IEEE Transactions on Automatic Control, 2019, 64, 3817-3822.	3.6	6
36	Multi-robot SLAM using M-Space feature representation. , 2010, , .		5

#	Article	IF	Citations
37	Wind power bidding in a soft penalty market. , 2013, , .		5
38	Analysis of threshold models for collective actions in social networks. , 2015, , .		5
39	Exploiting weather forecasts for sizing photovoltaic energy bids. , 2013, , .		4
40	Asynchronous Distributed Method of Multipliers for Constrained Nonconvex optimization. , 2018, , .		4
41	Asynchronous Distributed Learning From Constraints. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4367-4373.	7.2	4
42	Experimental validation of a decentralized control law for multi-vehicle collective motion. , 2007, , .		3
43	A remote lab for multi-robot experiments with virtual obstacles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 354-359.	0.4	3
44	Nonlinear orbit control with longitude tracking. , 2016, , .		3
45	A Local Market Model for Community Microgrids. , 2019, , .		2
46	An adaptive groundtrack maintenance scheme for spacecraft with electric propulsion. Acta Astronautica, 2020, 167, 460-466.	1.7	2
47	Minimum switching control for spacecraft precision pointing with on/off actuators. , 2015, , .		1
48	Distributed set membership estimation with time-varying graph topology. , 2019, , .		1
49	Path planning with uncertainty: A set membership approach. International Journal of Adaptive Control and Signal Processing, 2011, 25, 273-287.	2.3	0
50	Asymptotic behaviours of a class of threshold models for collective action in social networks. International Journal of Control, 2018, 91, 2230-2249.	1.2	0