Roberto Tron

List of Publications by Year
in descending order

31 papers	1,446 citations	1040056 9 h-index	1281871 11 g-index
31 all docs	31 docs citations	31 times ranked	1201 citing authors

#	Article	IF	Citations
1	Localization Verifiability Under Outlier Measurements With Linear Programming. IEEE Transactions on Control of Network Systems, 2023, 10, 51-62.	3.7	0
2	Experimental and Computational Aeroacoustic Investigation of Small Rotor Interactions in Hover. Applied Sciences (Switzerland), 2021, 11, 10016.	2.5	9
3	Bearing-Only Consensus and Formation Control under Directed Topologies. , 2020, , .		6
4	Distributed and consistent multi-image feature matching via QuickMatch. International Journal of Robotics Research, 2020, 39, 1222-1238.	8.5	4
5	Rotational Outlier Identification in Pose Graphs using Dual Decomposition. Lecture Notes in Computer Science, 2020, , 391-407.	1.3	4
6	Self-triggered Control for Safety Critical Systems Using Control Barrier Functions. , 2019, , .		35
7	Distributed 3-D Bearing-Only Orientation Localization. , 2019, , .		4
8	A Computational Theory of Robust Localization Verifiability in the Presence of Pure Outlier Measurements. , 2019, , .		1
9	A Bearing-Based Control Law for Trajectory Tracking. , 2019, , .		0
10	Bearing-Based Formation Control with Second-Order Agent Dynamics. , 2018, , .		2
11	The Dynamic Bearing Observability Matrix Nonlinear Observability and Estimation for Multi-Agent Systems. , 2018, , .		21
12	Light-Weight Object Detection and Decision Making via Approximate Computing in Resource-Constrained Mobile Robots. , 2018, , .		5
13	The Space of Essential Matrices as a Riemannian Quotient Manifold. SIAM Journal on Imaging Sciences, 2017, 10, 1416-1445.	2.2	17
14	Fast Multi-image Matching via Density-Based Clustering. , 2017, , .		37
15	Theory and methods for bearing rigidity recovery. , 2017, , .		5
16	Bearing-only formation control with auxiliary distance measurements, leaders, and collision avoidance. , 2016, , .		21
17	A Distributed Optimization Framework for Localization and Formation Control: Applications to Vision-Based Measurements. IEEE Control Systems, 2016, 36, 22-44.	0.8	99
18	Rigid components identification and rigidity control in bearing-only localization using the graph cycle basis. , 2015, , .		23

#	ARTICLE	IF	CITATIONS
19	Initialization techniques for 3D SLAM: A survey on rotation estimation and its use in pose graph optimization. , 2015, , .		138
20	Distributed 3-D Localization of Camera Sensor Networks From 2-D Image Measurements. IEEE Transactions on Automatic Control, 2014, 59, 3325-3340.	5.7	83
21	An optimization approach to bearing-only visual homing with applications to a 2-D unicycle model. , 2014, , .		14
22	On the Quotient Representation for the Essential Manifold. , 2014, , .		3
23	On the Convergence of Gradient Descent for Finding the Riemannian Center of Mass. SIAM Journal on Control and Optimization, 2013, 51, 2230-2260.	2.1	85
24	Riemannian Consensus for Manifolds With Bounded Curvature. IEEE Transactions on Automatic Control, 2013, 58, 921-934.	5.7	63
25	Intrinsic consensus on SO(3) with almost-global convergence. , 2012, , .		58
26	Distributed Computer Vision Algorithms. IEEE Signal Processing Magazine, 2011, 28, 32-45.	5.6	40
27	Average consensus on Riemannian manifolds with bounded curvature. , 2011, , .		13
28	Motion Segmentation in the Presence of Outlying, Incomplete, or Corrupted Trajectories. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1832-1845.	13.9	270
29	Distributed image-based 3-D localization of camera sensor networks. , 2009, , .		57
30	Multiframe Motion Segmentation with Missing Data Using PowerFactorization and GPCA. International Journal of Computer Vision, 2008, 79, 85-105.	15.6	170
31	Motion segmentation via robust subspace separation in the presence of outlying, incomplete, or corrupted trajectories. , 2008, , .		159