

# Luigi Chisci

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

2,230  
citations

331670

21  
h-index

223800

46  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1420  
citing authors

#	ARTICLE	IF	CITATIONS
1	Kullback-Leibler average, consensus on probability densities, and distributed state estimation with guaranteed stability. Automatica, 2014, 50, 707-718.	5.0	390
2	Consensus CPHD Filter for Distributed Multitarget Tracking. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 508-520.	10.8	249
3	Stability of consensus extended Kalman filter for distributed state estimation. Automatica, 2016, 68, 169-178.	5.0	230
4	Real-Time Epileptic Seizure Prediction Using AR Models and Support Vector Machines. IEEE Transactions on Biomedical Engineering, 2010, 57, 1124-1132.	4.2	213
5	A distributed Kalman filter with event-triggered communication and guaranteed stability. Automatica, 2018, 93, 75-82.	5.0	127
6	Robust Fusion for Multisensor Multiobject Tracking. IEEE Signal Processing Letters, 2018, 25, 640-644.	3.6	95
7	Data-driven communication for state estimation with sensor networks. Automatica, 2012, 48, 926-935.	5.0	70
8	Computationally Efficient Multi-Agent Multi-Object Tracking With Labeled Random Finite Sets. IEEE Transactions on Signal Processing, 2019, 67, 260-275.	5.3	67
9	Dual mode predictive tracking of piecewise constant references for constrained linear systems. International Journal of Control, 2003, 76, 61-72.	1.9	58
10	Multiobject Fusion With Minimum Information Loss. IEEE Signal Processing Letters, 2020, 27, 201-205.	3.6	53
11	Distributed Joint Attack Detection and Secure State Estimation. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 96-110.	2.8	49
12	Fusion of Labeled RFS Densities With Minimum Information Loss. IEEE Transactions on Signal Processing, 2020, 68, 5855-5868.	5.3	34
13	An Information-Theoretic Approach to Distributed State Estimation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12477-12482.	0.4	30
14	Memory Unscented Particle Filter for 6-DOF Tactile Localization. IEEE Transactions on Robotics, 2017, 33, 1139-1155.	10.3	30
15	Cooperative sensor fusion in centralized sensor networks using Cauchy-Schwarz divergence. Signal Processing, 2020, 167, 107278.	3.7	29
16	Distributed Joint Sensor Registration and Multitarget Tracking via Sensor Network. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 1301-1317.	4.7	28
17	An adaptive variational Bayesian filter for nonlinear multi-sensor systems with unknown noise statistics. Signal Processing, 2021, 179, 107837.	3.7	26
18	A Bayesian approach to joint attack detection and resilient state estimation. , 2016, , .		25

#	ARTICLE	IF	CITATIONS
19	Centralized Cooperative Sensor Fusion for Dynamic Sensor Network With Limited Field-of-View via Labeled Multi-Bernoulli Filter. IEEE Transactions on Signal Processing, 2021, 69, 878-891.	5.3	25
20	Distributed joint sensor registration and target tracking via sensor network. Information Fusion, 2019, 46, 218-230.	19.1	23
21	Consensus-based multiple-model Bayesian filtering for distributed tracking. IET Radar, Sonar and Navigation, 2015, 9, 401-410.	1.8	22
22	Distributed Finite-Element Kalman Filter for Field Estimation. IEEE Transactions on Automatic Control, 2017, 62, 3309-3322.	5.7	21
23	Random-Finite-Set-Based Distributed Multirobot SLAM. IEEE Transactions on Robotics, 2020, 36, 1758-1777.	10.3	21
24	Moving horizon estimation for discrete-time linear systems with binary sensors: Algorithms and stability results. Automatica, 2017, 85, 374-385.	5.0	19
25	An approach to threat assessment based on evidential networks. , 2007, , .		17
26	Multi-Sensor Multi-Object Tracking with Different Fields-of-View Using the LMB Filter. , 2018, , .		17
27	Secure State Estimation of Cyber-Physical Systems Under Switching Attacks. IFAC-PapersOnLine, 2017, 50, 4979-4986.	0.9	16
28	Event-Triggered Distributed Multitarget Tracking. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 570-584.	2.8	15
29	Joint attack detection and secure state estimation of cyber-physical systems. International Journal of Robust and Nonlinear Control, 2020, 30, 4303-4330.	3.7	15
30	Fusion-Based Multidetector Multitarget Tracking With Random Finite Sets. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2438-2458.	4.7	15
31	Distributed multi-view multi-target tracking based on CPHD filtering. Signal Processing, 2021, 188, 108210.	3.7	15
32	Estimation of Constrained Parameters With Guaranteed MSE Improvement. IEEE Transactions on Signal Processing, 2007, 55, 1264-1274.	5.3	14
33	Random Set Approach to Distributed Multivehicle SLAM. IFAC-PapersOnLine, 2017, 50, 2457-2464.	0.9	14
34	Indirect adaptive fuzzy control of nonlinear descriptor systems. European Journal of Control, 2020, 51, 30-38.	2.6	14
35	PHD-SLAM 2.0: Efficient SLAM in the Presence of Missdetections and Clutter. IEEE Transactions on Robotics, 2021, 37, 1834-1843.	10.3	14
36	Distributed Averaging of Exponential-Class Densities With Discrete-Time Event-Triggered Consensus. IEEE Transactions on Control of Network Systems, 2018, 5, 359-369.	3.7	10

#	ARTICLE	IF	CITATIONS
37	An Adaptive Consensus Filter for Distributed State Estimation With Unknown Noise Statistics. IEEE Signal Processing Letters, 2021, 28, 1595-1599.	3.6	10
38	Multi-Agent Fusion With Different Limited Fields-of-View. IEEE Transactions on Signal Processing, 2022, 70, 1560-1575.	5.3	10
39	Networked target tracking With Doppler sensors. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 3294-3306.	4.7	9
40	Worst-case analysis of joint attack detection and resilient state estimation. , 2017, , .		8
41	Centralized Multiple-View Information Fusion for Multi-Object Tracking Using Labeled Multi-Bernoulli Filters. , 2018, , .		7
42	Direct Adaptive Fuzzy Control of Nonlinear Descriptor Systems. International Journal of Fuzzy Systems, 2019, 21, 2588-2599.	4.0	7
43	MAP moving horizon estimation for threshold measurements with application to field monitoring. International Journal of Adaptive Control and Signal Processing, 2020, 34, 796-811.	4.1	6
44	Control of multidimensional systems on complex network. PLoS ONE, 2017, 12, e0184431.	2.5	6
45	Fusion of Labeled RFS Densities With Different Fields of View. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 5908-5924.	4.7	6
46	Moving horizon state estimation for discrete-time linear systems with binary sensors. , 2015, , .		5
47	Distributed Joint Mapping and Registration with Limited Fields-of-View. , 2019, , .		5
48	Distributed multi-target tracking over an asynchronous multi-sensor network. , 2020, , .		5
49	Event-Triggered Consensus Bernoulli Filtering. , 2018, , .		4
50	Radial pole path approach for fast response of affine constrained nonlinear systems with matched uncertainties. International Journal of Robust and Nonlinear Control, 2020, 30, 142-158.	3.7	4
51	An Adaptive Filter for Nonlinear Multi-Sensor Systems with Heavy-Tailed Noise. Sensors, 2020, 20, 6757.	3.8	4
52	MAP Moving Horizon state estimation with binary measurements. , 2016, , .		3
53	Interactive Multiple-Target Tracking via Labeled Multi-Bernoulli Filters. , 2019, , .		3
54	Distributed joint target detection, tracking and classification via Bernoulli filter. IET Radar, Sonar and Navigation, 2022, 16, 1000-1013.	1.8	3

#	ARTICLE	IF	CITATIONS
55	Modular and Numerically Stable Multichannel Fast Transversal Filters. IETE Journal of Research, 1989, 35, 41-51.	2.6	2
56	Robust Predictive Regulation with Invariance Constraint. European Journal of Control, 2002, 8, 2-14.	2.6	2
57	Distributed state estimation under denial of service. , 2019, , .		2
58	Passive target detection and tracking from electromagnetic field measurements. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22321.	1.2	2
59	Unknown source in spatially distributed systems: Identifiability analysis and estimation. Automatica, 2022, 136, 110025.	5.0	2
60	Consensus variational Bayesian moving horizon estimation for distributed sensor networks with unknown noise covariances. Signal Processing, 2022, 198, 108571.	3.7	2
61	A variational Bayes moving horizon estimation adaptive filter with guaranteed stability. Automatica, 2022, 142, 110374.	5.0	1
62	An Event-Triggered Hybrid Consensus Filter for Distributed Sensor Network. IEEE Signal Processing Letters, 2022, 29, 1472-1476.	3.6	1
63	Event-Triggered Consensus LMB Filter for Distributed Multitarget Tracking. IEEE Transactions on Aerospace and Electronic Systems, 2023, 59, 712-719.	4.7	1
64	Network equilibrium stabilization via single-node insertion. , 2019, , .		0
65	GCI fusion based multi-detection multitarget tracking. , 2020, , .		0