

Giorgio Battistelli

List of Publications by Year in descending order

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113
papers

3,199
citations

218677

26
h-index

168389

53
g-index

113
all docs

113
docs citations

113
times ranked

1572
citing authors

#	ARTICLE	IF	CITATIONS
1	Event-Triggered Consensus LMB Filter for Distributed Multitarget Tracking. IEEE Transactions on Aerospace and Electronic Systems, 2023, 59, 712-719.	4.7	1
2	Unknown source in spatially distributed systems: Identifiability analysis and estimation. Automatica, 2022, 136, 110025.	5.0	2
3	Multi-Agent Fusion With Different Limited Fields-of-View. IEEE Transactions on Signal Processing, 2022, 70, 1560-1575.	5.3	10
4	Distributed joint target detection, tracking and classification via Bernoulli filter. IET Radar, Sonar and Navigation, 2022, 16, 1000-1013.	1.8	3
5	Consensus variational Bayesian moving horizon estimation for distributed sensor networks with unknown noise covariances. Signal Processing, 2022, 198, 108571.	3.7	2
6	A variational Bayes moving horizon estimation adaptive filter with guaranteed stability. Automatica, 2022, 142, 110374.	5.0	1
7	Fusion of Labeled RFS Densities With Different Fields of View. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 5908-5924.	4.7	6
8	An Event-Triggered Hybrid Consensus Filter for Distributed Sensor Network. IEEE Signal Processing Letters, 2022, 29, 1472-1476.	3.6	1
9	Classification for Dynamical Systems: Model-Based and Data-Driven Approaches. IEEE Transactions on Automatic Control, 2021, 66, 1741-1748.	5.7	2
10	Optimal direct data-driven control with stability guarantees. European Journal of Control, 2021, 59, 175-187.	2.6	7
11	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
12	An Adaptive Consensus Filter for Distributed State Estimation With Unknown Noise Statistics. IEEE Signal Processing Letters, 2021, 28, 1595-1599.	3.6	10
13	PHD-SLAM 2.0: Efficient SLAM in the Presence of Missdetections and Clutter. IEEE Transactions on Robotics, 2021, 37, 1834-1843.	10.3	14
14	Fusion-Based Multidetected Multitarget Tracking With Random Finite Sets. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2438-2458.	4.7	15
15	Distributed multi-view multi-target tracking based on CPHD filtering. Signal Processing, 2021, 188, 108210.	3.7	15
16	Dynamic Source Localization via Finite-Element Underwater Acoustic Field Estimation. , 2021, , .		1
17	Cooperative sensor fusion in centralized sensor networks using Cauchy's Schwarz divergence. Signal Processing, 2020, 167, 107278.	3.7	29
18	Distributed multi-sensor multi-view fusion based on generalized covariance intersection. Signal Processing, 2020, 166, 107246.	3.7	42

#	ARTICLE	IF	CITATIONS
19	Distributed Joint Sensor Registration and Multitarget Tracking via Sensor Network. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 1301-1317.	4.7	28
20	Comment on "Detecting Topology Variations in Networks of Linear Dynamical Systems". IEEE Transactions on Control of Network Systems, 2020, 7, 187-188.	3.7	2
21	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
22	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
23	Random-Finite-Set-Based Distributed Multirobot SLAM. IEEE Transactions on Robotics, 2020, 36, 1758-1777.	10.3	21
24	Fusion of Labeled RFS Densities With Minimum Information Loss. IEEE Transactions on Signal Processing, 2020, 68, 5855-5868.	5.3	34
25	Distributed Multi-Sensor Fusion of PHD Filters With Different Sensor Fields of View. IEEE Transactions on Signal Processing, 2020, 68, 5204-5218.	5.3	47
26	Distributed multi-target tracking over an asynchronous multi-sensor network. , 2020, , .		5
27	Moving horizon estimation: Open problems, theoretical progress, and new application perspectives. International Journal of Adaptive Control and Signal Processing, 2020, 34, 703-705.	4.1	5
28	5G mmWave Cooperative Positioning and Mapping Using Multi-Model PHD Filter and Map Fusion. IEEE Transactions on Wireless Communications, 2020, 19, 3782-3795.	9.2	86
29	Multiobject Fusion With Minimum Information Loss. IEEE Signal Processing Letters, 2020, 27, 201-205.	3.6	53
30	Passive target detection and tracking from electromagnetic field measurements. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22321.	1.2	2
31	Packet loss detection in networked control systems. International Journal of Robust and Nonlinear Control, 2020, 30, 6073-6090.	3.7	6
32	GCI fusion based multi-detection multitarget tracking. , 2020, , .		0
33	Network equilibrium stabilization via single-node insertion. , 2019, , .		0
34	Event-Triggered Distributed Multitarget Tracking. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 570-584.	2.8	15
35	Computationally Efficient CPHD Fusion based on Generalized Covariance Intersection. , 2019, , .		3
36	Distributed Joint Mapping and Registration with Limited Fields-of-View. , 2019, , .		5

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37	Distributed state estimation under denial of service. , 2019, , .		2
38	Distributed Moving-Horizon Estimation With Arrival-Cost Consensus. IEEE Transactions on Automatic Control, 2019, 64, 3316-3323.	5.7	33
39	Computationally Efficient Multi-Agent Multi-Object Tracking With Labeled Random Finite Sets. IEEE Transactions on Signal Processing, 2019, 67, 260-275.	5.3	67
40	Distributed joint sensor registration and target tracking via sensor network. Information Fusion, 2019, 46, 218-230.	19.1	23
41	Robust Distributed Fusion With Labeled Random Finite Sets. IEEE Transactions on Signal Processing, 2018, 66, 278-293.	5.3	89
42	A distributed Kalman filter with event-triggered communication and guaranteed stability. Automatica, 2018, 93, 75-82.	5.0	127
43	Robust Fusion for Multisensor Multiobject Tracking. IEEE Signal Processing Letters, 2018, 25, 640-644.	3.6	95
44	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
45	Detecting Topology Variations in Networks of Linear Dynamical Systems. IEEE Transactions on Control of Network Systems, 2018, 5, 1287-1299.	3.7	14
46	Direct Control Design via Controller Unfalsification. International Journal of Robust and Nonlinear Control, 2018, 28, 3694-3712.	3.7	15
47	Distributed Joint Attack Detection and Secure State Estimation. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 96-110.	2.8	49
48	Event-Triggered Consensus Bernoulli Filtering. , 2018, , .		4
49	Multi-Sensor Multi-Object Tracking with Different Fields-of-View Using the LMB Filter. , 2018, , .		17
50	Switching Control for Parameter Identifiability. IEEE Transactions on Automatic Control, 2018, 63, 849-856.	5.7	0
51	Distributed Finite-Element Kalman Filter for Field Estimation. IEEE Transactions on Automatic Control, 2017, 62, 3309-3322.	5.7	21
52	Robust Switching Control: Stability Analysis and Application to Active Disturbance Attenuation. IEEE Transactions on Automatic Control, 2017, 62, 6369-6376.	5.7	5
53	Input-constrained multi-model unfalsified switching control. Automatica, 2017, 83, 391-395.	5.0	11
54	Moving horizon estimation for discrete-time linear systems with binary sensors: Algorithms and stability results. Automatica, 2017, 85, 374-385.	5.0	19

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55	Hierarchical switching for active disturbance attenuation with fine controller tuning. International Journal of Adaptive Control and Signal Processing, 2017, 31, 742-760.	4.1	5
56	Worst-case analysis of joint attack detection and resilient state estimation. , 2017, , .		8
57	Consensus-based joint target tracking and sensor localization. , 2017, , .		2
58	Detecting topology variations in networks of linear systems with static coupling. , 2016, , .		4
59	A Bayesian approach to joint attack detection and resilient state estimation. , 2016, , .		25
60	MAP Moving Horizon state estimation with binary measurements. , 2016, , .		3
61	Energy-efficient distributed state estimation via event-triggered consensus on exponential families. , 2016, , .		1
62	Stability of consensus extended Kalman filter for distributed state estimation. Automatica, 2016, 68, 169-178.	5.0	230
63	Detecting topology variations in dynamical networks. , 2015, , .		11
64	Switching-based adaptive disturbance attenuation with guaranteed robust stability. , 2015, , .		1
65	Self-Tuning Mechanism for the Design of Adaptive Secondary Mirror Position Control. IEEE Transactions on Control Systems Technology, 2015, 23, 2087-2100.	5.2	3
66	Moving horizon state estimation for discrete-time linear systems with binary sensors. , 2015, , .		5
67	Event-triggered consensus on exponential families. , 2015, , .		4
68	Switching control for parameter identifiability of uncertain systems. , 2015, , .		0
69	Design of a switching controller for adaptive disturbance attenuation with guaranteed stability. , 2015, , .		0
70	Networked target tracking With Doppler sensors. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 3294-3306.	4.7	9
71	Consensus-based multiple-model Bayesian filtering for distributed tracking. IET Radar, Sonar and Navigation, 2015, 9, 401-410.	1.8	22
72	A hierarchical approach to adaptive disturbance attenuation combining switching and tuning. , 2014, , .		2

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73	Unfalsified approach to data-driven control design. , 2014, , .		4
74	Kullback-Leibler average, consensus on probability densities, and distributed state estimation with guaranteed stability. Automatica, 2014, 50, 707-718.	5.0	390
75	Adaptive memory in multi-model switching control of uncertain plants. Automatica, 2014, 50, 874-882.	5.0	24
76	Distinguishability of Discrete-Time Nonlinear Systems. IEEE Transactions on Automatic Control, 2014, 59, 1014-1020.	5.7	9
77	Adaptive disturbance attenuation via logic-based switching. Systems and Control Letters, 2014, 73, 48-57.	2.3	9
78	Discerning controllers for switching linear systems: Existence and genericity. Automatica, 2014, 50, 2358-2365.	5.0	8
79	Mode-observability degree in discrete-time switching linear systems. Systems and Control Letters, 2014, 70, 69-76.	2.3	21
80	Stability of Consensus Extended Kalman Filtering for Distributed State Estimation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5520-5525.	0.4	10
81	Switching Control for Adaptive Disturbance Attenuation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1483-1488.	0.4	0
82	Consensus CPHD Filter for Distributed Multitarget Tracking. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 508-520.	10.8	249
83	Model-Free Adaptive Switching Control of Time-Varying Plants. IEEE Transactions on Automatic Control, 2013, 58, 1208-1220.	5.7	46
84	On stabilization of switching linear systems. Automatica, 2013, 49, 1162-1173.	5.0	35
85	Projection-based degree of distinguishability in switching linear systems. , 2013, , .		1
86	On discerning controllers for switching linear systems. , 2013, , .		0
87	Frequency based design of modal controllers for adaptive optics systems. Optics Express, 2012, 20, 27108.	3.4	15
88	Consensus-based algorithms for distributed filtering. , 2012, , .		32
89	Mode-observability conditions for linear and nonlinear systems. , 2012, , .		3
90	On stabilization and tracking for switching linear systems. , 2012, , .		0

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91	Trade-offs between control and mode-observability properties for switching linear systems. , 2012, , .		2
92	Data-driven strategies for selective data transmission in sensor networks. , 2012, , .		6
93	Data-driven communication for state estimation with sensor networks. Automatica, 2012, 48, 926-935.	5.0	70
94	Automatic Tuning of the Internal Position Control of an Adaptive Secondary Mirror. European Journal of Control, 2011, 17, 273-289.	2.6	10
95	Moving-Horizon State Estimation for Nonlinear Systems Using Neural Networks. IEEE Transactions on Neural Networks, 2011, 22, 768-780.	4.2	61
96	Multi-Model Adaptive Switching Control with Fine Controller Tuning. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 374-379.	0.4	4
97	An Information-Theoretic Approach to Distributed State Estimation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12477-12482.	0.4	30
98	On Adaptive Stabilization of Mode-Observable Switching Linear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 356-361.	0.4	8
99	Model-free Adaptive Switching Control of Uncertain Time-Varying Plants. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1273-1278.	0.4	12
100	Dealing with plant variations in multi-model unfalsified switching control via adaptive memory selection. , 2011, , .		4
101	Multiple-model adaptive switching control for uncertain multivariable systems. , 2011, , .		2
102	Set-point tracking in mode-observable switching linear systems. , 2011, , .		3
103	Multi-model unfalsified adaptive switching supervisory control. Automatica, 2010, 46, 249-259.	5.0	109
104	A maximum-likelihood Kalman filter for switching discrete-time linear systems. Automatica, 2010, 46, 1870-1876.	5.0	37
105	Advances in moving horizon estimation for nonlinear systems. , 2010, , .		46
106	Stability of Unfalsified Adaptive Switching Control in Noisy Environments. IEEE Transactions on Automatic Control, 2010, 55, 2424-2429.	5.7	43
107	Unfalsified adaptive switching supervisory control of time varying systems. , 2009, , .		12
108	State Estimation in a Sensor Network under Bandwidth Constraints. Understanding Complex Systems, 2009, , 207-221.	0.6	3

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109	Moving-horizon state estimation for nonlinear discrete-time systems: New stability results and approximation schemes. Automatica, 2008, 44, 1753-1765.	5.0	232
110	State estimation with a remote sensor under limited communication rate. , 2008, , .		5
111	Active mode observability of switching linear systems. Automatica, 2007, 43, 1442-1449.	5.0	58
112	Minimum-Distance Receding-Horizon State Estimation for Switching Discrete-Time Linear Systems. , 2007, , 347-358.		4
113	Design of state estimators for uncertain linear systems using quadratic boundedness. Automatica, 2006, 42, 497-502.	5.0	127