Francesca Boem

List of Publications by Year
in descending order

51	858	759233	642732
papers	citations	12	23
		h-index	g-index

51	51	51	686
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Distributed Networked Approach for Fault Detection of Large-Scale Systems. IEEE Transactions on Automatic Control, 2017, 62, 18-33.	5.7	117
2	A Distributed Cyber-Attack Detection Scheme With Application to DC Microgrids. IEEE Transactions on Automatic Control, 2020, 65, 3800-3815.	5.7	98
3	Plug-and-Play Fault Detection and Control-Reconfiguration for a Class of Nonlinear Large-Scale Constrained Systems. IEEE Transactions on Automatic Control, 2016, 61, 3963-3978.	5.7	63
4	Distributed Fault-Tolerant Control of Large-Scale Systems: An Active Fault Diagnosis Approach. IEEE Transactions on Control of Network Systems, 2020, 7, 288-301.	3.7	62
5	Detection of Covert Cyber-Attacks in Interconnected Systems: A Distributed Model-Based Approach. IEEE Transactions on Automatic Control, 2020, 65, 3728-3741.	5.7	60
6	Distributed Fault Detection and Isolation of Continuous-Time Non-Linear Systems. European Journal of Control, 2011, 17, 603-620.	2.6	51
7	Plug-and-Play Fault Detection and Isolation for Large-Scale Nonlinear Systems With Stochastic Uncertainties. IEEE Transactions on Automatic Control, 2019, 64, 4-19.	5.7	40
8	Observer-Based Anomaly Detection of Synchronous Generators for Power Systems Monitoring. IEEE Transactions on Power Systems, 2018, 33, 4228-4237.	6.5	38
9	Distributed fault diagnosis for continuous-time nonlinear systems: The input–output case. Annual Reviews in Control, 2013, 37, 163-169.	7.9	37
10	Distributed Fault Detection for Interconnected Large-Scale Systems: A Scalable Plug & Play Approach. IEEE Transactions on Control of Network Systems, 2019, 6, 800-811.	3.7	37
11	Distributed watermarking for secure control of microgrids under replay attacks. IFAC-PapersOnLine, 2018, 51, 182-187.	0.9	27
12	A distributed attack detection method for multi-agent systems governed by consensus-based control. , 2017, , .		21
13	Fault Diagnosis and control-reconfiguration in Large-Scale Systems: a Plug-and-Play approach. , 2014, , .		18
14	A decentralized fault-tolerant control scheme based on Active Fault Diagnosis. , 2016, , .		15
15	State Observers for Systems Subject to Bounded Disturbances Using Quadratic Boundedness. IEEE Transactions on Automatic Control, 2020, 65, 5352-5359.	5.7	13
16	Distributed Detection of Covert Attacks for Interconnected Systems. , 2019, , .		12
17	Distributed fault detection using sensor networks and Pareto estimation. , 2013, , .		11
18	Kernel-Based Simultaneous Parameter-State Estimation for Continuous-Time Systems. IEEE Transactions on Automatic Control, 2020, 65, 3053-3059.	5.7	11

#	Article	IF	Citations
19	Decentralized state estimation for heterogeneous multi-agent systems. , 2015, , .		9
20	A distributed fault detection methodology for a class of large-scale uncertain input-output discrete-time nonlinear systems. , 2011, , .		8
21	A Plug-and-Play Fault Diagnosis Approach for Large-Scale Systems ã˜… ã˜…The research leading to these results has received partial funding from the European Union Seventh Framework Programme [FP7/2007-2013] under grant agreement n. 257462 HYCON2 Network of excellence and from the EPSRC STABLE-NET grant EP/L014343/1.. IFAC-PapersOnLine, 2015, 48, 601-606.	0.9	8
22	Optimal Topology for Distributed Fault Detection of Large-scale Systems ã˜… ã˜…This paper has been partially supported by the EPSRC STABLENET grant EP/L014343/1.. IFAC-PapersOnLine, 2015, 48, 60-65.	0.9	8
23	Decentralized fault diagnosis for heterogeneous multi-agent systems. , 2016, , .		8
24	Distributed fault detection for uncertain nonlinear systems: A network delay compensation strategy. , 2013, , .		7
25	Scalable monitoring of interconnected stochastic systems. , 2016, , .		7
26	Distributed Fault Diagnosis for Input-Output Continuous-Time Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1089-1094.	0.4	6
27	Distributed Pareto-optimal state estimation using sensor networks. Automatica, 2018, 93, 211-223.	5.0	6
28	A distributed estimation method for sensor networks based on Pareto optimization. , 2012, , .		5
29	Stochastic Fault Detection in a plug-and-play scenario. , 2015, , .		5
30	A distributed pareto-optimal dynamic estimation method. , 2015, , .		5
31	Model-based Detection of Cyber-Attacks in Networked MPC-based Control Systems. IFAC-PapersOnLine, 2018, 51, 963-968.	0.9	5
32	Decentralized state estimation for the control of network systems. Journal of the Franklin Institute, 2019, 356, 860-882.	3.4	5
33	Multi-feature trajectory clustering using Earth Mover's Distance. , 2011, , .		4
34	Distributed Fault Detection and Isolation for Interconnected Systems: a Non-Asymptotic Kernel-Based Approach. IFAC-PapersOnLine, 2017, 50, 1013-1018.	0.9	4
35	Model-Based Fault Detection and Estimation for Linear Time Invariant and Piecewise Affine Systems by Using Quadratic Boundedness. , 2018, , .		4
36	Reducing false alarm rates in observer-based distributed fault detection schemes by analyzing moving averages. IFAC-PapersOnLine, 2018, 51, 473-479.	0.9	4

#	Article	IF	Citations
37	Distributed model-based fault diagnosis with stochastic uncertainties. , 2015, , .		3
38	Distributed Clustering-based Sensor Fault Diagnosis for HVAC Systems * *This work has been partially supported by the research project â€œStability and Control of Power Networks with Energy Storage (STABLE-NET),â€•funded by the RCUK Energy Programme (contract no: EP/L014343/1) and by the Italian MIUR Project SEAL -Smart&safe Energy-aware Assisted Living (SCN-00398). IFAC-PapersOnLine, 2017, 50, 4197-4202.	0.9	3
39	A Distributed Approach for the Detection of Covert Attacks in Interconnected Systems with Stochastic Uncertainties. , 2019, , .		3
40	Distributed fault detection with sensor networks using pareto-optimal dynamic estimation method. , 2016, , .		2
41	Optimal System Decomposition for Distributed Fault Detection: Insights and Numerical Results. IFAC-PapersOnLine, 2018, 51, 578-585.	0.9	2
42	Deadbeat Simultaneous Parameter-State Estimation for Linear Continuous-time Systems: a Kernel-based Approach. , 2018, , .		2
43	Continuous and Non-intrusive Reauthentication of Web Sessions Based on Mouse Dynamics. , 2014, , .		1
44	An Algebraic Approach to Modeling Distributed Multiphysics Problems: the case of a DRI Reactorâˆ’âˆ’This paper has been partially supported by Regione Friuli-Venezia-Giulia.. IFAC-PapersOnLine, 2015, 48, 155-160.	0.9	1
45	Partition-based Pareto-optimal state prediction method for interconnected systems using sensor networks. , 2017, , .		1
46	Fast-Convergent Fault Detection and Isolation in an Uncertain Scenario. , 2018, , .		1
47	Fault Diagnosis for Uncertain Networked Systems. Systems and Control: Foundations and Applications, 2018, , 533-581.	0.3	0
48	Optimization Based Partitioning Selection for Improved Contaminant Detection Performance. , 2018, , .		0
49	Active Fault Diagnosis via Reachable Set Separation using Interval Methods. , 2019, , .		0
50	Observer-based Anomaly Detection of Synchronous Generators for Power Systems Monitoring. , 2019, , .		0
51	Distributed cyber-attack isolation for large-scale interconnected systems. , 2021, , .		0