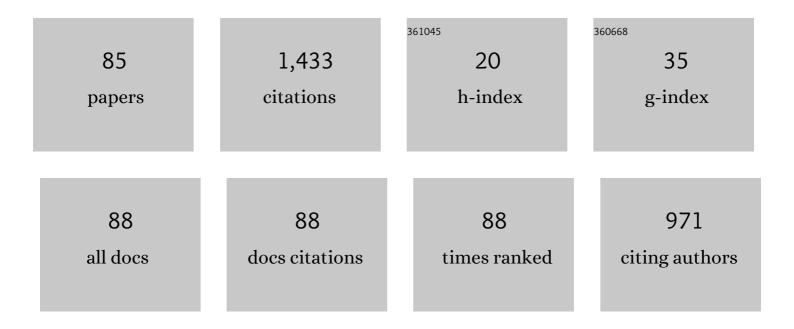
Joaquim Blesa

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	FDI and FTC of wind turbines using the interval observer approach and virtual actuators/sensors. Control Engineering Practice, 2014, 24, 138-155.	3.2	111
2	Leak localization in water distribution networks using Bayesian classifiers. Journal of Process Control, 2017, 55, 1-9.	1.7	96
3	Leak localization in water distribution networks using a mixed model-based/data-driven approach. Control Engineering Practice, 2016, 55, 162-173.	3.2	81
4	Robust fault diagnosis of proton exchange membrane fuel cells using a Takagi-Sugeno interval observer approach. International Journal of Hydrogen Energy, 2016, 41, 2875-2886.	3.8	62
5	Identification for passive robust fault detection using zonotopeâ€based setâ€membership approaches. International Journal of Adaptive Control and Signal Processing, 2011, 25, 788-812.	2.3	57
6	Robust fault detection based on adaptive threshold generation using interval LPV observers. International Journal of Adaptive Control and Signal Processing, 2012, 26, 258-283.	2.3	54
7	Sensor placement for leak detection and location in water distribution networks. Water Science and Technology: Water Supply, 2014, 14, 795-803.	1.0	54
8	Fault detection using interval LPV models in an open-flow canal. Control Engineering Practice, 2010, 18, 460-470.	3.2	43
9	Model reference FTC for LPV systems using virtual actuators and setâ€membership fault estimation. International Journal of Robust and Nonlinear Control, 2015, 25, 735-760.	2.1	43
10	Robust sensor placement for leak location: analysis and design. Journal of Hydroinformatics, 2016, 18, 136-148.	1.1	43
11	Leak Localization in Water Distribution Networks using Pressure Residuals and Classifiers. IFAC-PapersOnLine, 2015, 48, 220-225.	0.5	42
12	Robust fault detection using polytope-based set-membership consistency test. IET Control Theory and Applications, 2012, 6, 1767-1777.	1.2	38
13	Gain-Scheduled Smith Predictor PID-Based LPV Controller for Open-Flow Canal Control. IEEE Transactions on Control Systems Technology, 2014, 22, 468-477.	3.2	36
14	Fault Diagnosis of Wind Turbines using a Set-membership Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8316-8321.	0.4	32
15	Sensor placement for classifier-based leak localization in water distribution networks using hybrid feature selection. Computers and Chemical Engineering, 2018, 108, 152-162.	2.0	32
16	Leak Localization in Water Distribution Networks using Deep Learning. , 2019, , .		29
17	Robust identification and fault diagnosis based on uncertain multiple input–multiple output linear parameter varying parity equations and zonotopes. Journal of Process Control, 2012, 22, 1890-1912.	1.7	28
18	An Interval NLPV Parity Equations Approach for Fault Detection and Isolation of a Wind Farm. IEEE Transactions on Industrial Electronics, 2014, , 1-1.	5.2	26

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#	Article	IF	CITATIONS
19	Setâ€membership parity space approach for fault detection in linear uncertain dynamic systems. International Journal of Adaptive Control and Signal Processing, 2016, 30, 186-205.	2.3	25
20	Linear parameter varying modeling and identification for real-time control of open-flow irrigation canals. Environmental Modelling and Software, 2014, 53, 87-97.	1.9	23
21	Fault detection and isolation for a wind turbine benchmark using a mixed Bayesian/Set-membership approach. Annual Reviews in Control, 2015, 40, 59-69.	4.4	23
22	Fault Tolerant Control of the Wind Turbine Benchmark using Virtual Sensors/Actuators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 114-119.	0.4	20
23	Assessment of a Leak Localization Algorithm in Water Networks under Demand Uncertainty a a This work is partially supported by CICYT HARCRICS DPI2014-58104-R, CICYT ECOCIS DPI2013-48243-C2-1-R of the Spanish Ministry of Education and by the EFFINET grant FP7-ICT-2012-318556 of the European Commission, the Universitat Politécnica de Catalunya (UPC) and 2014SGR374 of the Generalitat de	0.5	20
24	CatalunyaIFAC PapersOnLine, 2015, 48, 226-291. Leak Localization Method for Water-Distribution Networks Using a Data-Driven Model and Dempster–Shafer Reasoning. IEEE Transactions on Control Systems Technology, 2021, 29, 937-948.	3.2	20
25	Gain-scheduled Smith proportional–integral derivative controllers for linear parameter varying first-order plus time-varying delay systems. IET Control Theory and Applications, 2011, 5, 2142-2155.	1.2	19
26	Data-Driven Approach for Leak Localization in Water Distribution Networks Using Pressure Sensors and Spatial Interpolation. Water (Switzerland), 2019, 11, 1500.	1.2	19
27	Optimal Pressure Sensor Placement in Water Distribution Networks Minimizing Leak Location Uncertainty. Procedia Engineering, 2015, 119, 953-962.	1.2	18
28	Modelling uncertainty for leak localization in Water Networks. IFAC-PapersOnLine, 2018, 51, 730-735.	0.5	18
29	Robust Economic Model Predictive Control Based on a Zonotope and Local Feedback Controller for Energy Dispatch in Smart-Grids Considering Demand Uncertainty. Energies, 2020, 13, 696.	1.6	16
30	Leak Detection, Isolation and Estimation in Pressurized Water Pipe Networks using LPV Models and Zonotopes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 36-41.	0.4	15
31	Limnimeter and rain gauge FDI in sewer networks using an interval parity equations based detection approach and an enhanced isolation scheme. Control Engineering Practice, 2013, 21, 146-170.	3.2	13
32	Leak Localization in Water Distribution Networks Using Data-Driven and Model-Based Approaches. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	1.3	13
33	Gray-Box Model of Inland Navigation Channel: Application to the Cuinchy–Fontinettes Reach. Journal of Intelligent Systems, 2014, 23, 183-199.	1.2	12
34	Adaptive threshold generation in robust fault detection using interval models: timeâ€domain and frequencyâ€domain approaches. International Journal of Adaptive Control and Signal Processing, 2013, 27, 873-901.	2.3	11
35	Robustness Analysis of Sensor Placement for Leak Detection and Location under Uncertain Operating Conditions. Procedia Engineering, 2014, 89, 1553-1560.	1.2	11
36	Clustering techniques applied to sensor placement for leak detection and location in water		11

distribution networks. , 2014, , .

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#	Article	IF	CITATIONS
37	Set-membership identification and fault detection using a Bayesian framework. International Journal of Systems Science, 2016, 47, 1710-1724.	3.7	11
38	Economic model predictive control for energy dispatch of a smart micro-grid system. , 2017, , .		11
39	BiDrac Industry 4.0 framework: Application to an Automotive Paint Shop Process. Control Engineering Practice, 2021, 109, 104757.	3.2	11
40	Robust Data-Driven Leak Localization in Water Distribution Networks Using Pressure Measurements and Topological Information. Sensors, 2021, 21, 7551.	2.1	11
41	Inland navigation channel model: Application to the Cuinchy-Fontinettes reach. , 2013, , .		9
42	Parameter Uncertainty Modelling in Water Distribution Network Models. Procedia Engineering, 2015, 119, 583-592.	1.2	9
43	Robust fault detection using polytope-based set-membership consistency test. , 2010, , .		8
44	Robust Gain-Scheduled Smith PID Controllers for Second Order LPV Systems with Time Varying Delay. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 199-204.	0.4	8
45	First Results in Leak Localization in Water Distribution Networks using Graph-Based Clustering and Deep Learning. IFAC-PapersOnLine, 2020, 53, 16691-16696.	0.5	8
46	Clustering-Learning Approach to the Localization of Leaks in Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	1.3	8
47	Nonlinear set-membership identification and fault detection using a Bayesian framework: Application to the wind turbine benchmark. , 2013, , .		7
48	Fault Detection and Isolation of inland navigation channel: Application to the Cuinchy-Fontinettes reach. , 2013, , .		7
49	Optimal Pressure Sensor Placement for Leak Localisation Using a Relaxed Isolation Index: Application to the Barcelona Water Network â~ â~This work has been partially funded by the Spanish Ministry of Science and Technology through the Project ECOCIS (Ref. DPI2013-48243-C2-1-R) and Project HARCRICS (Ref. DPI2014-58104-R), and by EFFINET grant FP7-ICT-2012-318556 of the European Commission	0.5	6
50	IFAC PapersOntine, 2015, 18, 1100 1113. Nonâ€linear setâ€membership identification approach based on the Bayesian framework. IET Control Theory and Applications, 2015, 9, 1392-1398.	1.2	6
51	Robust Optimization based Energy Dispatch in Smart Grids Considering Simultaneously Multiple Uncertainties: Load Demands and Energy Prices. IFAC-PapersOnLine, 2017, 50, 6755-6760.	0.5	6
52	Robust Periodic Economic Predictive Control based on Interval Arithmetic for Water Distribution Networks. IFAC-PapersOnLine, 2017, 50, 5202-5207.	0.5	6
53	Robust fault detection and isolation of wind turbines using interval observers. , 2013, , .		5
54	Adaptive and predictive control architecture of inland navigation networks in a global change context: application to the Cuinchy-Fontinettes reach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 2201-2206.	0.4	5

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#	Article	IF	CITATIONS
55	Enhancing Inland Navigation by Model Predictive Control of Water Levels: The Cuinchy-Fontinettes Case. Operations Research/ Computer Science Interfaces Series, 2015, , 211-234.	0.3	5
56	Leak localization in water distribution networks using model-based Bayesian reasoning. , 2016, , .		5
57	Sliding window assessment for sensor fault model-based diagnosis in inland waterways. IFAC-PapersOnLine, 2018, 51, 31-36.	0.5	5
58	Modeling and fault diagnosis of flat inland navigation canals. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2018, 232, 761-771.	0.7	5
59	Robust fault detection using interval LPV models. , 2007, , .		4
60	Leak Localization in Water Distribution Networks Using a Kriging Data-Based Approach. , 2018, , .		4
61	Incremental upgrading sensor placement methodology: Application to the leak localization in water networks. Computers and Chemical Engineering, 2022, 158, 107642.	2.0	4
62	Set-membership parity space hybrid system diagnosis. International Journal of Systems Science, 2015, 46, 790-807.	3.7	3
63	Uncertainty effect on leak localisation in a DMA. , 2016, , .		3
64	Advanced monitoring of an industrial process integrating several sources of information through a data warehouse. , 2017, , .		3
65	Decentralized Fault-Tolerant Control of Inland Navigation Networks: a Challenge. Journal of Physics: Conference Series, 2017, 783, 012018.	0.3	3
66	Robust optimization based energy dispatch in smart grids considering demand uncertainty. Journal of Physics: Conference Series, 2017, 783, 012033.	0.3	3
67	Sensor fault diagnosis in inland navigation networks based on a grey-box model. IFAC-PapersOnLine, 2018, 51, 742-747.	0.5	3
68	Estimation of Node Pressures in Water Distribution Networks by Gaussian Process Regression. , 2019, , .		3
69	Optimal energy dispatch in a smart micro-grid system using economic model predictive control. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2020, 234, 96-106.	0.7	3
70	LPV modelling and identification of an open-flow canal for control. , 2012, , .		2
71	Set-membership identification and fault detection using a bayesian framework. , 2013, , .		2
72	Teaching Model-based Fault Detection and Isolation using Project-based Learning on a Three-tank System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 9026-9031.	0.4	2

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#	Article	IF	CITATIONS
73	Optimal sensor placement for classifier-based leak localization in drinking water networks. , 2016, , .		2
74	On Teaching Model-Based Fault Diagnosis in Engineering Curricula [Lecture Notes]. IEEE Control Systems, 2016, 36, 53-62.	1.0	2
75	A methodology for distributed fault diagnosis. Journal of Physics: Conference Series, 2017, 783, 012005.	0.3	2
76	A Fully Data-Driven Approach for Leak Localization in Water Distribution Networks. , 2021, , .		2
77	Identification and fault diagnosis for LPV uncertain systems. , 2011, , .		1
78	Set-membership Parity Space Approach for Fault Detection in Linear Uncertain Dynamic Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1287-1292.	0.4	1
79	Fault detection and isolation in flat navigation canals. , 2017, , .		1
80	Set-membership identification: Bayesian approach vs subpavings approach. , 2013, , .		0
81	Nonlinear set-membership identification using a Bayesian approach. , 2014, , .		0
82	Sensor placement for leak monitoring in drinking water networks combining clustering techniques and a semi-exhaustive search. , 2016, , .		0
83	Pumps condition assessment in water distribution networks. IFAC-PapersOnLine, 2018, 51, 662-667.	0.5	0
84	Sensor Placement for Monitoring. Advances in Industrial Control, 2017, , 153-173.	0.4	0
85	Leak Monitoring. Advances in Industrial Control, 2017, , 115-130.	0.4	0