

Vicenç Puig

List of Publications by Year in descending order

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483
papers

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61857

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496
docs citations

496
times ranked

3785
citing authors

#	ARTICLE	IF	CITATIONS
1	LMI-based design of state-feedback controllers for pole clustering of LPV systems in a union of R -regions. International Journal of Systems Science, 2022, 53, 291-312.	3.7	2
2	Set-membership-based distributed moving horizon estimation of large-scale systems. ISA Transactions, 2022, 128, 402-413.	3.1	5
3	Leak detection and localization in water distribution networks by combining expert knowledge and data-driven models. Neural Computing and Applications, 2022, 34, 4759-4779.	3.2	14
4	Pressure Sensor Placement for Leak Localization in Water Distribution Networks Using Information Theory. Sensors, 2022, 22, 443.	2.1	12
5	Incremental upgrading sensor placement methodology: Application to the leak localization in water networks. Computers and Chemical Engineering, 2022, 158, 107642.	2.0	4
6	Water Quality Indicator Interval Prediction in Wastewater Treatment Process Based on the Improved BES-LSSVM Algorithm. Sensors, 2022, 22, 422.	2.1	13
7	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
8	Dual-Rate Control Framework With Safe Watermarking Against Deception Attacks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7494-7506.	5.9	8
9	Comparison of Optimisation Algorithms for Centralised Anaerobic Co-Digestion in a Real River Basin Case Study in Catalonia. Sensors, 2022, 22, 1857.	2.1	8
10	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
11	Automated Off-Line Generation of Stable Variable Impedance Controllers According to Performance Specifications. IEEE Robotics and Automation Letters, 2022, 7, 5874-5881.	3.3	4
12	Multi-Objective-Based Tuning of Economic Model Predictive Control of Drinking Water Transport Networks. Water (Switzerland), 2022, 14, 1222.	1.2	3
13	Autonomous Vehicle State Estimation and Mapping Using Takagi-Sugeno Modeling Approach. Sensors, 2022, 22, 3399.	2.1	4
14	High-gain interval observer for continuous-discrete-time systems using an LMI design approach. International Journal of Systems Science, 2022, 53, 3010-3026.	3.7	1
15	Zonotopic Linear Parameter Varying SLAM Applied to Autonomous Vehicles. Sensors, 2022, 22, 3672.	2.1	4
16	Health-Aware Economic MPC for Operational Management of Flow-Based Networks Using Bayesian Networks. Water (Switzerland), 2022, 14, 1538.	1.2	1
17	A two-layer control architecture for operational management and hydroelectricity production maximization in inland waterways using model predictive control. Control Engineering Practice, 2022, 124, 105172.	3.2	2
18	LMI Conditions for Stability and State-Feedback H^{∞} Control of Discrete-Time Multi-Mode Multi-Dimensional Systems. , 2022, , 1-1.		0

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19	Fault diagnosis in wind turbines based on ANFIS and Takagi-Sugeno interval observers. Expert Systems With Applications, 2022, 206, 117698.	4.4	19
20	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
21	Health-aware control design based on remaining useful life estimation for autonomous racing vehicle. ISA Transactions, 2021, 113, 196-209.	3.1	16
22	Observer-based model reference control of Takagi-Sugeno-Lipschitz systems affected by disturbances using quadratic boundedness. Asian Journal of Control, 2021, 23, 42-56.	1.9	5
23	Internal stability improvement of a natural gas centrifugal compressor system based on a new optimal output feedback controller using block transformation and grey wolf optimizer. Journal of Natural Gas Science and Engineering, 2021, 85, 103697.	2.1	3
24	Zonotopic fault detection observer for discrete-time descriptor systems considering $\hat{\nu}$ fault sensitivity. International Journal of Systems Science, 2021, 52, 95-109.	3.7	8
25	High-gain interval observer for partially linear systems with bounded disturbances. International Journal of Control, 2021, 94, 1376-1385.	1.2	5
26	Prognosis based on the Joint Parameter/State Estimation Using Zonotopic LPV Set-Membership Approach. IFAC-PapersOnLine, 2021, 54, 280-285.	0.5	1
27	Optimal Estimation of the Roughness Coefficient and Friction Factor of a Pipeline. Journal of Fluids Engineering, Transactions of the ASME, 2021, 143, .	0.8	1
28	Integrated FDI/FTC approach for wind turbines using a LPV interval predictor subspace approach and virtual sensors/actuators. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2021, 235, 1527-1543.	0.8	1
29	Economic model predictive control of nonlinear systems using a linear parameter varying approach. International Journal of Robust and Nonlinear Control, 2021, 31, 8218-8238.	2.1	1
30	Passivation blocks for fault tolerant control of nonlinear systems. Automatica, 2021, 125, 109450.	3.0	17
31	An integrated software architecture for the pollution-based real-time control of urban drainage systems. Journal of Hydroinformatics, 2021, 23, 671-687.	1.1	2
32	Process Performance Verification Using Viability Theory. Processes, 2021, 9, 482.	1.3	0
33	Online statistical hypothesis test for leak detection in water distribution networks. Journal of Intelligent and Fuzzy Systems, 2021, 40, 8665-8681.	0.8	1
34	BiDrac Industry 4.0 framework: Application to an Automotive Paint Shop Process. Control Engineering Practice, 2021, 109, 104757.	3.2	11
35	Reconfiguration of large-scale systems using back-up components. Computers and Chemical Engineering, 2021, 149, 107288.	2.0	3
36	Health-aware Model Predictive Control including Fault-tolerant Capabilities for Drinking Water Transport Networks. , 2021, , .		0

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37	Detection of replay attacks in autonomous vehicles using a bank of QPV observers. , 2021, , .		2
38	Control-oriented quality modelling approach of sewer networks. Journal of Environmental Management, 2021, 294, 113031.	3.8	9
39	Leak diagnosis in pipelines based on a Kalman filter for Linear Parameter Varying systems. Control Engineering Practice, 2021, 115, 104888.	3.2	10
40	Disturbance observer-based LPV feedback control of a $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1738" altimg="si2.svg">\langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{-DoF robotic manipulator including compliance through gain shifting. Control Engineering Practice, 2021, 115, 104887.}$	3.2	13
41	Chance-constrained stochastic MPC of Astlingen urban drainage benchmark network. Control Engineering Practice, 2021, 115, 104900.	3.2	15
42	A Hybrid Automata Approach for Monitoring the Patient in the Loop in Artificial Pancreas Systems. Sensors, 2021, 21, 7117.	2.1	3
43	A zonotopic set-invariance analysis of replay attacks affecting the supervisory layer. Systems and Control Letters, 2021, 157, 105056.	1.3	10
44	Robust Fault Detection using Set-based Approaches. , 2021, , .		0
45	Fault Diagnosis and Prognosis using a Hybrid Approach combining Structural Analysis and Data-driven Techniques. , 2021, , .		1
46	Fault Diagnosis using a Combined Model and Data Based Approach: Application to a Water Cooling Machine. , 2021, , .		2
47	A Fully Data-Driven Approach for Leak Localization in Water Distribution Networks. , 2021, , .		2
48	An Inclusion-based Approach for Determination of a Safe Maximal Output Admissible Set. , 2021, , .		0
49	Robust Zonotopic Set-Membership Approach for Model-Based Prognosis: Application on Linear Parameter-Varying Systems. , 2021, , .		1
50	Robust Zonotopic Prognostics Approaches for LPV Systems Based on Set-Membership and Extended Kalman Filter. , 2021, , .		0
51	A Simple Nonlinear Observer for State and Unknown Input Estimation: DC Motor Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 710-714.	2.2	14
52	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
53	Leak Localization in Water Distribution Networks Using Pressure and Data-Driven Classifier Approach. Water (Switzerland), 2020, 12, 54.	1.2	44
54	Autonomous racing using Linear Parameter Varying-Model Predictive Control (LPV-MPC). Control Engineering Practice, 2020, 95, 104270.	3.2	51

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55	LPV-MP planning for autonomous racing vehicles considering obstacles. Robotics and Autonomous Systems, 2020, 124, 103392.	3.0	26
56	Characterisation of interval-observer fault detection and isolation properties using the set-invariance approach. Journal of the Franklin Institute, 2020, 357, 1853-1886.	1.9	22
57	Zonotopic Extended Kalman Filter For RUL Forecasting With Unknown Degradation Behaviors. , 2020, , .		6
58	Special issue on interval estimation applied to diagnosis and control of uncertain systems. International Journal of Control, 2020, 93, 2525-2527.	1.2	5
59	Integrated pollution-based real-time control of sanitation systems. Journal of Environmental Management, 2020, 269, 110798.	3.8	22
60	Active fault detection based on set-membership approach for uncertain discrete-time systems. International Journal of Robust and Nonlinear Control, 2020, 30, 5322-5340.	2.1	16
61	A hybrid system-level prognostics approach with online RUL forecasting for electronics-rich systems with unknown degradation behaviors. Microelectronics Reliability, 2020, 111, 113676.	0.9	16
62	Robust Economic Model Predictive Control of Water Transport Networks. , 2020, , .		0
63	Factors influencing the stormwater quality model of sewer networks and a case study of Louis Fargue urban catchment in Bordeaux, France. Water Science and Technology, 2020, 81, 2232-2243.	1.2	1
64	Simultaneous Optimal Estimation of Roughness and Minor Loss Coefficients in a Pipeline. Mathematical and Computational Applications, 2020, 25, 56.	0.7	8
65	LPV MPC Control of an Autonomous Aerial Vehicle. , 2020, , .		6
66	Fault-Tolerant Control Based on Virtual Actuator and Sensor for Discrete-Time Descriptor Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 5316-5325.	3.5	29
67	Fault handling in large water networks with online dictionary learning. Journal of Process Control, 2020, 94, 46-57.	1.7	10
68	Hierarchical decentralized reference governor using dynamic constraint tightening for constrained cascade systems. Journal of the Franklin Institute, 2020, 357, 12495-12517.	1.9	8
69	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
70	Economic Reliability-Aware MPC-LPV for Operational Management of Flow-Based Water Networks Including Chance-Constraints Programming. Processes, 2020, 8, 60.	1.3	6
71	Prognosis of Water Quality Sensors Using Advanced Data Analytics: Application to the Barcelona Drinking Water Network. Sensors, 2020, 20, 1342.	2.1	8
72	Real-Time Control of Urban Water Cycle under Cyber-Physical Systems Framework. Water (Switzerland), 2020, 12, 406.	1.2	28

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73	TS fuzzy reconfiguration blocks for fault tolerant control of nonlinear systems. Journal of the Franklin Institute, 2020, 357, 4592-4623.	1.9	30
74	Estimation of Actuator and System Faults Via an Unknown Input Interval Observer for Takagi-Sugeno Systems. Processes, 2020, 8, 61.	1.3	9
75	Fault detection for uncertain LPV systems using probabilistic set-membership parity relation. Journal of Process Control, 2020, 87, 27-36.	1.7	20
76	An MPC-Enabled SWMM Implementation of the Astlingen RTC Benchmarking Network. Water (Switzerland), 2020, 12, 1034.	1.2	16
77	On robust interval observer design for uncertain systems subject to both time-invariant and time-varying uncertainties. International Journal of Control, 2020, 93, 2577-2595.	1.2	3
78	Fast zonotope-based LPV-MPC for autonomous vehicles. IET Control Theory and Applications, 2020, 14, 3676-3685.	1.2	8
79	Parameter Varying Approach For A Combined (Kinematic + Dynamic) Model Of Autonomous Vehicles. IFAC-PapersOnLine, 2020, 53, 15071-15076.	0.5	6
80	Robust Economic Model Predictive Control of Drinking Water Transport Networks Using Zonotopes. Advances in Intelligent Systems and Computing, 2020, , 1470-1482.	0.5	0
81	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
82	TS-MPC for Autonomous Vehicle using a Learning Approach. IFAC-PapersOnLine, 2020, 53, 15110-15115.	0.5	10
83	Health-aware Model Predictive Control of Wind Turbines using Stiffness Degradation Approach. IFAC-PapersOnLine, 2020, 53, 10348-10353.	0.5	1
84	Health-aware LPV Model Predictive Control of Wind Turbines. IFAC-PapersOnLine, 2020, 53, 826-831.	0.5	0
85	Set-membership Switched Observers based on Interval Characterization of the Estimation Error. IFAC-PapersOnLine, 2020, 53, 14261-14266.	0.5	0
86	Zonotopic set-membership estimation for Switched Systems based on Wi-Radius Minimization: Vehicle application. IFAC-PapersOnLine, 2020, 53, 7446-7451.	0.5	7
87	Optimal LPV-based Control and Estimation for Autonomous Vehicles. , 2020, , .		1
88	Robust Economic Model Predictive Control of Water Transport Networks. , 2020, , .		0
89	Improvement of Redundant Manipulator Mechanism performances using Linear Parameter Varying Model Approach. , 2020, , .		0
90	Zonotopic Set-Membership State Estimation for Discrete-Time Descriptor LPV Systems. IEEE Transactions on Automatic Control, 2019, 64, 2092-2099.	3.6	74

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91	Fault Diagnosis Using Set-Membership Approaches. , 2019, , 237-261.		1
92	FDI Approach. , 2019, , 69-95.		0
93	A virtual actuator approach for the secure control of networked LPV systems under pulse-width modulated DoS attacks. Neurocomputing, 2019, 365, 21-30.	3.5	24
94	TS-MPC for Autonomous Vehicles Including a TS-MHE-UIO Estimator. IEEE Transactions on Vehicular Technology, 2019, 68, 6403-6413.	3.9	17
95	Data-Driven Approach for Leak Localization in Water Distribution Networks Using Pressure Sensors and Spatial Interpolation. Water (Switzerland), 2019, 11, 1500.	1.2	19
96	Economic Health-Aware LPV-MPC Based on System Reliability Assessment for Water Transport Network. Energies, 2019, 12, 3015.	1.6	5
97	Robust Zonotopic Observer Design: Interval Observer versus Set-membership Approaches. , 2019, , .		1
98	Fault-tolerant Control of Discrete-time Descriptor Systems using Virtual Actuators. , 2019, , .		3
99	Fault-tolerant Control of a Service Robot using a LPV Robust Unknown Input Observer. , 2019, , .		1
100	Set-based replay attack detection in closed-loop systems using a plug & play watermarking approach. , 2019, , .		2
101	Estimation of Node Pressures in Water Distribution Networks by Gaussian Process Regression. , 2019, , .		3
102	Economic Health-aware MPC-LPV based on DBN Reliability model for Water Transport Network. , 2019, , .		1
103	Leak Localization in Water Distribution Networks using Deep Learning. , 2019, , .		29
104	Bibliographical review on cyber attacks from a control oriented perspective. Annual Reviews in Control, 2019, 48, 103-128.	4.4	79
105	Robust fault detection and isolation based on zonotopic unknown input observers for discrete-time descriptor systems. Journal of the Franklin Institute, 2019, 356, 5293-5314.	1.9	27
106	Robust economic model predictive control based on a periodicity constraint. International Journal of Robust and Nonlinear Control, 2019, 29, 3296-3310.	2.1	5
107	Set-invariance characterizations of discrete-time descriptor systems with application to active mode detection. Automatica, 2019, 107, 255-263.	3.0	18
108	Combining set-theoretic UIO and invariant sets for optimal guaranteed robust fault detection and isolation. Journal of Process Control, 2019, 78, 155-169.	1.7	15

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109	Positioning heading quadrotor control using LPV techniques. IET Control Theory and Applications, 2019, 13, 783-794.	1.2	23
110	Optimal Sizing of Storage Elements for a Vehicle Based on Fuel Cells, Supercapacitors, and Batteries. Energies, 2019, 12, 925.	1.6	22
111	Interval observer versus set-membership approaches for fault detection in uncertain systems using zonotopes. International Journal of Robust and Nonlinear Control, 2019, 29, 2819-2843.	2.1	30
112	Detection of replay attacks in cyber-physical systems using a frequency-based signature. Journal of the Franklin Institute, 2019, 356, 2798-2824.	1.9	38
113	Observer Design for Takagi-Sugeno Lipschitz Systems Affected by Disturbances using Quadratic Boundedness. , 2019, , .		1
114	Time Evolution Pattern Analysis for Cyber Attack Detection in a Two-tank Benchmark. , 2019, , .		0
115	Interval zonotopic fault estimation for uncertain LPV descriptor systems. , 2019, , .		1
116	A Feedback Simulation Procedure for Real-time Control of Urban Drainage Systems. IFAC-PapersOnLine, 2019, 52, 101-106.	0.5	5
117	Mobile robot visual navigation based on fuzzy logic and optical flow approaches. International Journal of Systems Assurance Engineering and Management, 2019, 10, 1654-1667.	1.5	15
118	Economic MPC-LPV Control for the Operational Management of Water Distribution Networks. IFAC-PapersOnLine, 2019, 52, 88-93.	0.5	10
119	D-stable Controller Design for Lipschitz NLPV System. IFAC-PapersOnLine, 2019, 52, 88-93.	0.5	7
120	FD-ZKF: A Zonotopic Kalman Filter optimizing fault detection rather than state estimation. Journal of Process Control, 2019, 73, 89-102.	1.7	29
121	Interval observer-based fault detectability analysis using mixed set-invariance theory and sensitivity analysis approach. International Journal of Systems Science, 2019, 50, 495-516.	3.7	12
122	Robust fault and icing diagnosis in unmanned aerial vehicles using LPV interval observers. International Journal of Robust and Nonlinear Control, 2019, 29, 5456-5480.	2.1	21
123	Optimal state observation using quadratic boundedness: Application to UAV disturbance estimation. International Journal of Applied Mathematics and Computer Science, 2019, 29, 99-109.	1.5	9
124	Fault detection and isolation using viability theory and interval observers. International Journal of Systems Science, 2018, 49, 1445-1462.	3.7	9
125	To the Special Issue (Section "Fault Diagnosis and Fault-Tolerant Control of Wind Turbine Systems") International Journal of Adaptive Control and Signal Processing, 2018, 32, 547-548.	2.3	1
126	Set-membership approach and Kalman observer based on zonotopes for discrete-time descriptor systems. Automatica, 2018, 93, 435-443.	3.0	90

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127	Mixed Active/Passive Robust Fault Detection and Isolation Using Set-Theoretic Unknown Input Observers. IEEE Transactions on Automation Science and Engineering, 2018, 15, 863-871.	3.4	40
128	Autonomous vehicle control using a kinematic Lyapunov-based technique with LQR-LMI tuning. Control Engineering Practice, 2018, 73, 1-12.	3.2	89
129	Diagnosis of Hybrid Dynamic Systems Based on the Behavior Automaton Abstraction. , 2018, , 243-278.		1
130	Centralized and Distributed Command Governor Approaches for Water Supply Systems Management. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 586-595.	5.9	16
131	Health-aware model predictive control of wind turbines using fatigue prognosis. International Journal of Adaptive Control and Signal Processing, 2018, 32, 614-627.	2.3	12
132	Fault estimation of wind turbines using combined adaptive and parameter estimation schemes. International Journal of Adaptive Control and Signal Processing, 2018, 32, 549-567.	2.3	28
133	Sensor fault diagnosis of singular delayed LPV systems with inexact parameters: an uncertain system approach. International Journal of Systems Science, 2018, 49, 179-195.	3.7	18
134	Diagnosis of Icing and Actuator Faults in UAVs Using LPV Unknown Input Observers. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 91, 651-665.	2.0	19
135	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
136	Diagnosis and Fault-Tolerant Control of Critical Infrastructures. Advances in Intelligent Systems and Computing, 2018, , 3-16.	0.5	0
137	A Distributed Set-membership Approach based on Zonotopes for Interconnected Systems. , 2018, , .		9
138	Health-aware LPV-MPC Based on System Reliability Assessment for Drinking Water Networks. , 2018, , .		6
139	Probability-Guaranteed Set-Membership State Estimation for Polynomially Uncertain Linear Time-Invariant Systems. , 2018, , .		3
140	A shifting pole placement approach for the design of performance-varying multivariable PID controllers via BMIs – This work has been partly funded by MINECO and FEDER through the project CICYT HARCRICS (ref.DPI2014-58104-R) and SCAV (ref.DPI2017-88403-R). This work has been also supported by the Spanish State Research Agency through the MarÅa de Maeztu Seal of Excellence to IRI (MDM-2016-0656) and the grant Juan de la Cierva-Formaci3n (FICI-2016-2901).. IFAC-PapersOnLine, 2018, 51, 256-261.	0.5	0
141	Health-aware LPV-MPC based on a Reliability-based Remaining Useful Life Assessment. IFAC-PapersOnLine, 2018, 51, 1285-1291.	0.5	6
142	Zonotopic Unknown Input Observer of Discrete-time Descriptor Systems for State Estimation and Robust Fault Detection. IFAC-PapersOnLine, 2018, 51, 307-313.	0.5	2
143	Zonotopic state estimation and fault detection for systems with time-invariant uncertainties. IFAC-PapersOnLine, 2018, 51, 494-499.	0.5	5
144	A Robust Fault Detection Method using a Zonotopic Kaucher Set-membership Approach. IFAC-PapersOnLine, 2018, 51, 500-507.	0.5	10

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145	Leakage localization in water distribution using data-driven models and sensitivity analysis. IFAC-PapersOnLine, 2018, 51, 736-741.	0.5	9
146	A two-tank benchmark for detection and isolation of cyber attacks. IFAC-PapersOnLine, 2018, 51, 770-775.	0.5	4
147	Frequency-based detection of replay attacks: application to a multiple tank system. IFAC-PapersOnLine, 2018, 51, 969-974.	0.5	8
148	Robust Periodic Economic Model Predictive Control using Probabilistic Set Invariance for Descriptor Systems. IFAC-PapersOnLine, 2018, 51, 436-441.	0.5	2
149	Interval observer fault detection ensuring detectability and isolability by using a set-invariance approach. IFAC-PapersOnLine, 2018, 51, 1111-1118.	0.5	4
150	Pumps condition assessment in water distribution networks. IFAC-PapersOnLine, 2018, 51, 662-667.	0.5	0
151	Leak Localization in Water Distribution Networks using Fisher Discriminant Analysis. IFAC-PapersOnLine, 2018, 51, 929-934.	0.5	10
152	Robust Fault Detection for Vehicle Lateral Dynamics: A Zonotope-based Set-membership Approach. , 2018, , .		1
153	A Novel Formulation of Economic Model Predictive Control for Periodic Operations. , 2018, , .		2
154	Actuator fault tolerance evaluation approach of nonlinear model predictive control systems using viability theory. Journal of Process Control, 2018, 71, 35-45.	1.7	13
155	Economic Model Predictive Control with Nonlinear Constraint Relaxation for the Operational Management of Water Distribution Networks. Energies, 2018, 11, 991.	1.6	14
156	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
157	Gain scheduling LPV control for autonomous vehicles including friction force estimation and compensation mechanism. IET Control Theory and Applications, 2018, 12, 1683-1693.	1.2	40
158	Multi-Model Prediction for Demand Forecast in Water Distribution Networks. Energies, 2018, 11, 660.	1.6	24
159	Economic model predictive control based on a periodicity constraint. Journal of Process Control, 2018, 68, 226-239.	1.7	15
160	Robust fault estimation based on zonotopic Kalman filter for discrete-time descriptor systems. International Journal of Robust and Nonlinear Control, 2018, 28, 5071-5086.	2.1	30
161	Multi-layer health-aware economic predictive control of a pasteurization pilot plant. International Journal of Applied Mathematics and Computer Science, 2018, 28, 97-110.	1.5	15
162	Análisis y diseño de sistemas lineales con parámetros variantes utilizando LMIs. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2018, 16, 1.	0.6	4

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163	Data analytics methodology for monitoring quality sensors and events in the Barcelona drinking water network. <i>Journal of Hydroinformatics</i> , 2017, 19, 123-137.	1.1	3
164	Short-term demand forecast using a bank of neural network models trained using genetic algorithms for the optimal management of drinking water networks. <i>Journal of Hydroinformatics</i> , 2017, 19, 1-16.	1.1	15
165	Generalized set-theoretic unknown input observer for LPV systems with application to state estimation and robust fault detection. <i>International Journal of Robust and Nonlinear Control</i> , 2017, 27, 3812-3832.	2.1	38
166	A bounded-error approach to simultaneous state and actuator fault estimation for a class of nonlinear systems. <i>Journal of Process Control</i> , 2017, 52, 14-25.	1.7	53
167	Leak localization in water distribution networks using Bayesian classifiers. <i>Journal of Process Control</i> , 2017, 55, 1-9.	1.7	96
168	Nonlinear Model Predictive Control with Constraint Satisfaction for a Quadcopter. <i>Journal of Physics: Conference Series</i> , 2017, 783, 012025.	0.3	15
169	A methodology for distributed fault diagnosis. <i>Journal of Physics: Conference Series</i> , 2017, 783, 012005.	0.3	2
170	Robust Mpc for Actuator Fault Tolerance Using Set-Based Passive Fault Detection and Active Fault Isolation. <i>International Journal of Applied Mathematics and Computer Science</i> , 2017, 27, 43-61.	1.5	19
171	Non-linear economic model predictive control of water distribution networks. <i>Journal of Process Control</i> , 2017, 56, 23-34.	1.7	94
172	Optimal pressure sensor placement and assessment for leak location using a relaxed isolation index: Application to the Barcelona water network. <i>Control Engineering Practice</i> , 2017, 63, 1-12.	3.2	35
173	Approximating fault detection linear interval observers using n -order interval predictors. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017, 31, 1040-1060.	2.3	6
174	Real-Time Control-Oriented Quality Modelling in Combined Urban Drainage Networks * *This research is funded by EU funding for the project LIFE EFFIDRAIN LIFE14 ENV/ES/00080. <i>IFAC-PapersOnLine</i> , 2017, 50, 3941-3946.	0.5	7
175	Reduced-order Interval-observer Design for Dynamic Systems with Time-invariant Uncertainty. <i>IFAC-PapersOnLine</i> , 2017, 50, 6271-6276.	0.5	13
176	Fault Detection and Isolation using Viability Theory and Interval Observers. <i>Journal of Physics: Conference Series</i> , 2017, 783, 012004.	0.3	1
177	A distributed predictive control approach for periodic flow-based networks: application to drinking water systems. <i>International Journal of Systems Science</i> , 2017, 48, 3106-3117.	3.7	9
178	Sensor fault tolerance using robust MPC with set-based state estimation and active fault isolation. <i>International Journal of Robust and Nonlinear Control</i> , 2017, 27, 1260-1283.	2.1	28
179	Stochastic model predictive control approaches applied to drinking water networks. <i>Optimal Control Applications and Methods</i> , 2017, 38, 541-558.	1.3	31
180	Set-valued observer-based active fault-tolerant model predictive control. <i>Optimal Control Applications and Methods</i> , 2017, 38, 683-708.	1.3	7

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181	A necessary and sufficient condition for total observability of discrete-time linear time-varying systems. IFAC-PapersOnLine, 2017, 50, 729-734.	0.5	10
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