VicenÒ« Puig

List of Publications by Year
in descending order

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483	7,643	61984	102487
papers	citations	43 h-index	66 g-index

496	496	496	3785
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Methodology for leakage isolation using pressure sensitivity analysis in water distribution networks. Control Engineering Practice, 2011, 19, 1157-1167.	5.5	170
2	Application of predictive control strategies to the management of complex networks in the urban water cycle [Applications of Control]. IEEE Control Systems, 2013, 33, 15-41.	0.8	166
3	Optimal control of urban drainage systems. A case study. Control Engineering Practice, 2004, 12, 1-9.	5.5	161
4	Fault diagnosis and fault tolerant control using set-membership approaches: Application to real case studies. International Journal of Applied Mathematics and Computer Science, 2010, 20, 619-635.	1.5	148
5	Validation and reconstruction of flow meter data in the Barcelona water distribution network. Control Engineering Practice, 2010, 18, 640-651.	5.5	114
6	FDI and FTC of wind turbines using the interval observer approach and virtual actuators/sensors. Control Engineering Practice, 2014, 24, 138-155.	5.5	111
7	A virtual actuator and sensor approach for fault tolerant control of LPV systems. Journal of Process Control, 2014, 24, 203-222.	3.3	107
8	Leak Localization in Water Networks: A Model-Based Methodology Using Pressure Sensors Applied to a Real Network in Barcelona [Applications of Control]. IEEE Control Systems, 2014, 34, 24-36.	0.8	106
9	Optimal Sensor Placement for Leak Location in Water Distribution Networks Using Genetic Algorithms. Sensors, 2013, 13, 14984-15005.	3.8	104
10	Quasi-LPV modeling, identification and control of a twin rotor MIMO system. Control Engineering Practice, 2013, 21, 829-846.	5.5	99
11	Leak localization in water distribution networks using Bayesian classifiers. Journal of Process Control, 2017, 55, 1-9.	3.3	96
12	Non-linear economic model predictive control of water distribution networks. Journal of Process Control, 2017, 56, 23-34.	3.3	94
13	Robust fault detection using zonotopeâ€based setâ€membership consistency test. International Journal of Adaptive Control and Signal Processing, 2009, 23, 311-330.	4.1	92
14	Set-membership approach and Kalman observer based on zonotopes for discrete-time descriptor systems. Automatica, 2018, 93, 435-443.	5.0	90
15	Autonomous vehicle control using a kinematic Lyapunov-based technique with LQR-LMI tuning. Control Engineering Practice, 2018, 73, 1-12.	5.5	89
16	Passive robust fault detection using interval observers: Application to the DAMADICS benchmark problem. Control Engineering Practice, 2006, 14, 621-633.	5.5	84
17	Leak localization in water distribution networks using a mixed model-based/data-driven approach. Control Engineering Practice, 2016, 55, 162-173.	5.5	81
18	Fault-tolerant control strategy for actuator faults using LPV techniques: Application to a two degree of freedom helicopter. International Journal of Applied Mathematics and Computer Science, 2012, 22, 161-171.	1.5	79

#	Article	IF	Citations
19	Bibliographical review on cyber attacks from a control oriented perspective. Annual Reviews in Control, 2019, 48, 103-128.	7.9	79
20	An LMI approach to robust fault estimation for a class of nonlinear systems. International Journal of Robust and Nonlinear Control, 2016, 26, 1530-1548.	3.7	78
21	Zonotopic Set-Membership State Estimation for Discrete-Time Descriptor LPV Systems. IEEE Transactions on Automatic Control, 2019, 64, 2092-2099.	5.7	74
22	Passive Robust Fault Detection of Dynamic Processes Using Interval Models. IEEE Transactions on Control Systems Technology, 2008, 16, 1083-1089.	5.2	72
23	Robust Quasiâ€“LPV Model Reference FTC of a Quadrotor Uav Subject to Actuator Faults. International Journal of Applied Mathematics and Computer Science, 2015, 25, 7-22.	1.5	71
24	Robust unknown input observer for state and fault estimation in discrete-time Takagiâ€“Sugeno systems. International Journal of Systems Science, 2016, 47, 3409-3424.	5.5	68
25	Predictive optimal control of sewer networks using CORAL tool: application to Riera Blanca catchment in Barcelona. Water Science and Technology, 2009, 60, 869-878.	2.5	65
26	Worst-Case Simulation of Discrete Linear Time-Invariant Interval Dynamic Systems. Reliable Computing, 2003, 9, 251-290.	0.8	64
27	Objective Prioritization Using Lexicographic Minimizers for MPC of Sewer Networks. IEEE Transactions on Control Systems Technology, 2008, 16, 113-121.	5.2	64
28	Multi-objective optimisation for aircraft departure trajectories minimising noise annoyance. Transportation Research Part C: Emerging Technologies, 2010, 18, 975-989.	7.6	62
29	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.	7.1	62
30	Identification for passive robust fault detection using zonotopeâ€based setâ€membership approaches. International Journal of Adaptive Control and Signal Processing, 2011, 25, 788-812.	4.1	57
31	A decision support system for on-line leakage localization. Environmental Modelling and Software, 2014, 60, 331-345.	4.5	57
32	Automated generation and comparison of Takagiâ€“Sugeno and polytopic quasi-LPV models. Fuzzy Sets and Systems, 2015, 277, 44-64.	2.7	57
33	Fault Diagnosis Using a Timed Discrete-Event Approach Based on Interval Observers: Application to Sewer Networks. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 900-916.	2.9	56
34	A GMDH neural network-based approach to passive robust fault detection using a constraint satisfaction backward test. Engineering Applications of Artificial Intelligence, 2007, 20, 886-897.	8.1	54
35	Robust fault detection based on adaptive threshold generation using interval LPV observers. International Journal of Adaptive Control and Signal Processing, 2012, 26, 258-283.	4.1	54
36	Observer gain effect in linear interval observer-based fault detection. Journal of Process Control, 2010, 20, 944-956.	3.3	53

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37	Robust state-feedback control of uncertain LPV systems: An LMI-based approach. Journal of the Franklin Institute, 2014, 351, 2781-2803.	3.4	53
38	A bounded-error approach to simultaneous state and actuator fault estimation for a class of nonlinear systems. Journal of Process Control, 2017, 52, 14-25.	3.3	53
39	Fault Diagnosis of Advanced Wind Turbine Benchmark using Interval-based ARRs and Observers. IEEE Transactions on Industrial Electronics, 2015, , 1-1.	7.9	51
40	Autonomous racing using Linear Parameter Varying-Model Predictive Control (LPV-MPC). Control Engineering Practice, 2020, 95, 104270.	5.5	51
41	Actuator-fault detection and isolation based on set-theoretic approaches. Journal of Process Control, 2014, 24, 947-956.	3.3	46
42	Stochastic model predictive control based on Gaussian processes applied to drinking water networks. IET Control Theory and Applications, 2016, 10, 947-955.	2.1	46
43	PASSIVE ROBUST FAULT DETECTION APPROACHES USING INTERVAL MODELS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 443-448.	0.4	44
44	Leak Localization in Water Distribution Networks Using Pressure and Data-Driven Classifier Approach. Water (Switzerland), 2020, 12, 54.	2.7	44
45	Fault detection using interval LPV models in an open-flow canal. Control Engineering Practice, 2010, 18, 460-470.	5.5	43
46	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.	3.7	43
47	UIO design for singular delayed LPV systems with application to actuator fault detection and isolation. International Journal of Systems Science, 2016, 47, 107-121.	5.5	43
48	Leak Localization in Water Distribution Networks using Pressure Residuals and Classifiers. IFAC-PapersOnLine, 2015, 48, 220-225.	0.9	42
49	A fault-tolerant control strategy for non-linear discrete-time systems: application to the twin-rotor system. International Journal of Control, 2013, 86, 1788-1799.	1.9	41
50	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.	5.2	40
51	Gainâ€scheduling LPV control for autonomous vehicles including friction force estimation and compensation mechanism. IET Control Theory and Applications, 2018, 12, 1683-1693.	2.1	40
52	Robust Fault Diagnosis of Nonlinear Systems Using Interval Constraint Satisfaction and Analytical Redundancy Relations. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 18-29.	9.3	39
53	MIMO Smith predictor: Global and structured robust performance analysis. Journal of Process Control, 2009, 19, 163-177.	3.3	38
54	Generalized setâ€theoretic unknown input observer for LPV systems with application to state estimation and robust fault detection. International Journal of Robust and Nonlinear Control, 2017, 27, 3812-3832.	3.7	38

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55	Detection of replay attacks in cyber-physical systems using a frequency-based signature. Journal of the Franklin Institute, 2019, 356, 2798-2824.	3.4	38
56	A Fault-Hiding Approach for the Switching Quasi-LPV Fault Tolerant Control of a Four-Wheeled Omnidirectional Mobile Robot. IEEE Transactions on Industrial Electronics, 2014, , 1-1.	7.9	37
57	Lexicographic optimisation for optimal departure aircraft trajectories. Aerospace Science and Technology, 2010, 14, 26-37.	4.8	36
58	A multi-objective optimization strategy for designing aircraft noise abatement procedures. Case study at Girona airport. Transportation Research, Part D: Transport and Environment, 2011, 16, 31-41.	6.8	36
59	Robust fault detection of non-linear systems using set-membership state estimation based on constraint satisfaction. Engineering Applications of Artificial Intelligence, 2012, 25, 1-10.	8.1	36
60	Gain-Scheduled Smith Predictor PID-Based LPV Controller for Open-Flow Canal Control. IEEE Transactions on Control Systems Technology, 2014, 22, 468-477.	5.2	36
61	Actuator multiplicative fault estimation in discrete-time LPV systems using switched observers. Journal of the Franklin Institute, 2016, 353, 3176-3191.	3.4	35
62	Optimal pressure sensor placement and assessment for leak location using a relaxed isolation index: Application to the Barcelona water network. Control Engineering Practice, 2017, 63, 1-12.	5.5	35
63	Diagnosis of timed automata: Theory and application to the DAMADICS actuator benchmark problem. Control Engineering Practice, 2006, 14, 609-619.	5.5	34
64	Tuning of Predictive Controllers for Drinking Water Networked Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14507-14512.	0.4	33
65	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
66	Sensor placement for classifier-based leak localization in water distribution networks using hybrid feature selection. Computers and Chemical Engineering, 2018, 108, 152-162.	3.8	32
67	A virtual actuator approach for the fault tolerant control of unstable linear systems subject to actuator saturation and fault isolation delay. Annual Reviews in Control, 2015, 39, 68-80.	7.9	31
68	Stochastic model predictive control approaches applied to drinking water networks. Optimal Control Applications and Methods, 2017, 38, 541-558.	2.1	31
69	Robust fault estimation based on zonotopic Kalman filter for discreteâ€time descriptor systems. International Journal of Robust and Nonlinear Control, 2018, 28, 5071-5086.	3.7	30
70	Interval observer versus setâ€membership approaches for fault detection in uncertain systems using zonotopes. International Journal of Robust and Nonlinear Control, 2019, 29, 2819-2843.	3.7	30
71	TS fuzzy reconfiguration blocks for fault tolerant control of nonlinear systems. Journal of the Franklin Institute, 2020, 357, 4592-4623.	3.4	30
72	Equitable Aircraft Noise-Abatement Departure Procedures. Journal of Guidance, Control, and Dynamics, 2011, 34, 192-203.	2.8	29

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73	Set-theoretic methods in robust detection and isolation of sensor faults. International Journal of Systems Science, 2015, 46, 2317-2334.	5.5	29
74	Leak Localization in Water Distribution Networks using Deep Learning. , 2019, , .		29
75	FD-ZKF: A Zonotopic Kalman Filter optimizing fault detection rather than state estimation. Journal of Process Control, 2019, 73, 89-102.	3.3	29
76	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.	5.4	29
77	Fault-tolerant PID controllers using a passive robust fault diagnosis approach. Control Engineering Practice, 2001, 9, 1221-1234.	5.5	28
78	Faultâ€tolerant model predictive control within the hybrid systems framework: Application to sewer networks. International Journal of Adaptive Control and Signal Processing, 2009, 23, 757-787.	4.1	28
79	Robust identification and fault diagnosis based on uncertain multiple inputâ€“multiple output linear parameter varying parity equations and zonotopes. Journal of Process Control, 2012, 22, 1890-1912.	3.3	28
80	Optimal Sensor Placement for Leak Location in Water Distribution Networks using Evolutionary Algorithms. Water (Switzerland), 2015, 7, 6496-6515.	2.7	28
81	Control-Oriented Thermal Modeling Methodology for Water-Cooled PEM Fuel-Cell-Based Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 5146-5154.	7.9	28
82	Sensorâ€fault tolerance using robust MPC with setâ€based state estimation and active fault isolation. International Journal of Robust and Nonlinear Control, 2017, 27, 1260-1283.	3.7	28
83	Fault estimation of wind turbines using combined adaptive and parameter estimation schemes. International Journal of Adaptive Control and Signal Processing, 2018, 32, 549-567.	4.1	28
84	Real-Time Control of Urban Water Cycle under Cyber-Physical Systems Framework. Water (Switzerland), 2020, 12, 406.	2.7	28
85	Optimal sensor placement for model-based fault detection and isolation. , 2007, , .		27
86	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.	3.4	27
87	Actuator fault diagnosis of singular delayed LPV systems with inexact measured parameters via PI unknown input observer. IET Control Theory and Applications, 2017, 11, 1894-1903.	2.1	27
88	An Interval NLPV Parity Equations Approach for Fault Detection and Isolation of a Wind Farm. IEEE Transactions on Industrial Electronics, 2014, , 1-1.	7.9	26
89	Robust fault detection of singular LPV systems with multiple timeâ€varying delays. International Journal of Applied Mathematics and Computer Science, 2016, 26, 45-61.	1.5	26
90	LPV-MP planning for autonomous racing vehicles considering obstacles. Robotics and Autonomous Systems, 2020, 124, 103392.	5.1	26

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91	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.	4.1	25
92	Faultâ€tolerant control design using the linear parameter varying approach. International Journal of Robust and Nonlinear Control, 2014, 24, 1969-1988.	3.7	24
93	Water demand forecasting for the optimal operation of large-scale drinking water networks: The Barcelona Case Study.. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 10457-10462.	0.4	24
94	Reliable fault-tolerant model predictive control of drinking water transport networks. Control Engineering Practice, 2016, 55, 197-211.	5.5	24
95	Multi-Model Prediction for Demand Forecast in Water Distribution Networks. Energies, 2018, 11, 660.	3.1	24
96	A virtual actuator approach for the secure control of networked LPV systems under pulse-width modulated DoS attacks. Neurocomputing, 2019, 365, 21-30.	5.9	24
97	Linear parameter varying modeling and identification for real-time control of open-flow irrigation canals. Environmental Modelling and Software, 2014, 53, 87-97.	4.5	23
98	Fault detection and isolation for a wind turbine benchmark using a mixed Bayesian/Set-membership approach. Annual Reviews in Control, 2015, 40, 59-69.	7.9	23
99	Fault tolerant control of a proton exchange membrane fuel cell using Takagiâ€“Sugeno virtual actuators. Journal of Process Control, 2016, 45, 12-29.	3.3	23
100	Positionâ€heading quadrotor control using LPV techniques. IET Control Theory and Applications, 2019, 13, 783-794.	2.1	23
101	A methodology and a software tool for sensor data validation/reconstruction: Application to the Catalonia regional water network. Control Engineering Practice, 2016, 49, 159-172.	5.5	22
102	Optimal Sizing of Storage Elements for a Vehicle Based on Fuel Cells, Supercapacitors, and Batteries. Energies, 2019, 12, 925.	3.1	22
103	Characterisation of interval-observer fault detection and isolation properties using the set-invariance approach. Journal of the Franklin Institute, 2020, 357, 1853-1886.	3.4	22
104	Integrated pollution-based real-time control of sanitation systems. Journal of Environmental Management, 2020, 269, 110798.	7.8	22
105	Efficient optimal sensor placement for model-based FDI using an incremental algorithm. , 2007, , .		21
106	A novel design of unknown input observers using set-theoretic methods for robust fault detection. , 2016, , .		21
107	Robust fault and icing diagnosis in unmanned aerial vehicles using LPV interval observers. International Journal of Robust and Nonlinear Control, 2019, 29, 5456-5480.	3.7	21
108	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

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109	Fault detection for uncertain LPV systems using probabilistic set-membership parity relation. Journal of Process Control, 2020, 87, 27-36.	3.3	20
110	Leak Localization Method for Water-Distribution Networks Using a Data-Driven Model and Dempsterâ€“Shafer Reasoning. IEEE Transactions on Control Systems Technology, 2021, 29, 937-948.	5.2	20
111	A New Fault Diagnosis Algorithm that Improves the Integration of Fault Detection and Isolation. , 0, , .		19
112	Fault Tolerant Control design for polytopic uncertain LPV systems: Application to a quadrotor. , 2013, , .		19
113	Leak Signature Space: An Original Representation for Robust Leak Location in Water Distribution Networks. Water (Switzerland), 2015, 7, 1129-1148.	2.7	19
114	Robust Mpc for Actuatorâ€“Fault Tolerance Using Setâ€“Based Passive Fault Detection and Active Fault Isolation. International Journal of Applied Mathematics and Computer Science, 2017, 27, 43-61.	1.5	19
115	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.	3.4	19
116	Data-Driven Approach for Leak Localization in Water Distribution Networks Using Pressure Sensors and Spatial Interpolation. Water (Switzerland), 2019, 11, 1500.	2.7	19
117	Fault diagnosis in wind turbines based on ANFIS and Takagiâ€“Sugeno interval observers. Expert Systems With Applications, 2022, 206, 117698.	7.6	19
118	A new algorithm for adaptive threshold generation in robust fault detection based on a sliding window and global optimization. , 1999, , .		18
119	Robust Fault Detection Using Linear Interval Observers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 579-584.	0.4	18
120	Fault-Tolerant Control design using a virtual sensor for LPV systems. , 2010, , .		18
121	Sensor fault diagnosis of singular delayed LPV systems with inexact parameters: an uncertain system approach. International Journal of Systems Science, 2018, 49, 179-195.	5.5	18
122	Set-invariance characterizations of discrete-time descriptor systems with application to active mode detection. Automatica, 2019, 107, 255-263.	5.0	18
123	Design of parameter-scheduled state-feedback controllers using shifting specifications. Journal of the Franklin Institute, 2015, 352, 93-116.	3.4	17
124	TS-MPC for Autonomous Vehicles Including a TS-MHE-UIO Estimator. IEEE Transactions on Vehicular Technology, 2019, 68, 6403-6413.	6.3	17
125	Passivation blocks for fault tolerant control of nonlinear systems. Automatica, 2021, 125, 109450.	5.0	17
126	Design of a fault-tolerant control scheme for Takagi-Sugeno fuzzy systems. , 2008, , .		16

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127	Health-aware Model Predictive Control of Wind Turbines using Fatigue Prognosis. IFAC-PapersOnLine, 2015, 48, 1363-1368.	0.9	16
128	Centralized and Distributed Command Governor Approaches for Water Supply Systems Management. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 586-595.	9.3	16
129	Active fault detection based on setâ€membership approach for uncertain discreteâ€time systems. International Journal of Robust and Nonlinear Control, 2020, 30, 5322-5340.	3.7	16
130	A hybrid system-level prognostics approach with online RUL forecasting for electronics-rich systems with unknown degradation behaviors. Microelectronics Reliability, 2020, 111, 113676.	1.7	16
131	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.	3.1	16
132	An MPC-Enabled SWMM Implementation of the Astlingen RTC Benchmarking Network. Water (Switzerland), 2020, 12, 1034.	2.7	16
133	Health-aware control design based on remaining useful life estimation for autonomous racing vehicle. ISA Transactions, 2021, 113, 196-209.	5.7	16
134	Robust Fault Diagnosis using Parallelotope-based Set-membership Consistency Tests. , 0, , .		15
135	Robust fault detection for LPV systems using interval observers and zonotopes. , 2009, , .		15
136	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
137	Quasi-LPV modelling and non-linear identification of a Twin Rotor System. , 2012, , .		15
138	Gain-scheduling multivariable LPV control of an irrigation canal system. ISA Transactions, 2016, 63, 274-280.	5.7	15
139	Combining CSP and MPC for the operational control of water networks. Engineering Applications of Artificial Intelligence, 2016, 49, 126-140.	8.1	15
140	Short-term demand forecast using a bank of neural network models trained using genetic algorithms for the optimal management of drinking water networks. Journal of Hydroinformatics, 2017, 19, 1-16.	2.4	15
141	Nonlinear Model Predictive Control with Constraint Satisfactions for a Quadcopter. Journal of Physics: Conference Series, 2017, 783, 012025.	0.4	15
142	Economic model predictive control based on a periodicity constraint. Journal of Process Control, 2018, 68, 226-239.	3.3	15
143	Combining set-theoretic UIO and invariant sets for optimal guaranteed robust fault detection and isolation. Journal of Process Control, 2019, 78, 155-169.	3.3	15
144	Mobile robot visual navigation based on fuzzy logic and optical flow approaches. International Journal of Systems Assurance Engineering and Management, 2019, 10, 1654-1667.	2.4	15

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145	Chance-constrained stochastic MPC of Astlingen urban drainage benchmark network. Control Engineering Practice, 2021, 115, 104900.	5.5	15
146	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
147	Optimal predictive control of water transport systems: ArrÃªt-DarrÃ©/Arros case study. Water Science and Technology, 2009, 60, 2125-2133.	2.5	14
148	Robust Model Predictive Control based on Gaussian Processes: Application to drinking water networks. , 2015, , .		14
149	Economic Model Predictive Control with Nonlinear Constraint Relaxation for the Operational Management of Water Distribution Networks. Energies, 2018, 11, 991.	3.1	14
150	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.	3.0	14
151	Leak detection and localization in water distribution networks by combining expert knowledge and data-driven models. Neural Computing and Applications, 2022, 34, 4759-4779.	5.6	14
152	Robust Fault Detection: Active Versus Passive Approaches. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 157-163.	0.4	13
153	Passive robust fault detection using fuzzy parity equations. Mathematics and Computers in Simulation, 2002, 60, 193-207.	4.4	13
154	Fault detection and isolation of hybrid system using diagnosers that combine discrete and continuous dynamics. , 2010, , .		13
155	LPV modelling and control of a Twin Rotor MIMO System. , 2011, , .		13
156	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.	5.5	13
157	On the Assessment of Tree-Based and Chance-Constrained Predictive Control Approaches applied to Drinking Water Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6240-6245.	0.4	13
158	A practical test for assessing the reachability of discrete-time Takagiâ€“Sugeno fuzzy systems. Journal of the Franklin Institute, 2015, 352, 5936-5951.	3.4	13
159	An Incremental Hybrid System Diagnoser Automaton Enhanced by Discernibility Properties. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 788-804.	9.3	13
160	Reliabilityâ€“based economic model predictive control for generalised flowâ€“based networks including actuatorsâ€™ healthâ€“aware capabilities. International Journal of Applied Mathematics and Computer Science, 2016, 26, 641-654.	1.5	13
161	Reduced-order Interval-observer Design for Dynamic Systems with Time-invariant Uncertainty. IFAC-PapersOnLine, 2017, 50, 6271-6276.	0.9	13
162	Actuator fault tolerance evaluation approach of nonlinear model predictive control systems using viability theory. Journal of Process Control, 2018, 71, 35-45.	3.3	13

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163	Disturbance observer-based LPV feedback control of a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1738" altimg="si2.svg"><mml:mi>N</mml:mi></mml:math>-DoF robotic manipulator including compliance through gain shifting. Control Engineering Practice, 2021, 115, 104887.	5.5	13
164	Water Quality Indicator Interval Prediction in Wastewater Treatment Process Based on the Improved BES-LSSVM Algorithm. Sensors, 2022, 22, 422.	3.8	13
165	Leak Localization in Water Distribution Networks Using Data-Driven and Model-Based Approaches. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	2.6	13
166	Gray-Box Model of Inland Navigation Channel: Application to the Cuinchyâ€“Fontinettes Reach. Journal of Intelligent Systems, 2014, 23, 183-199.	1.6	12
167	Model reference quasi-LPV control of a quadrotor UAV. , 2014, , .		12
168	Linear quadratic control of LPV systems using static and shifting specifications. , 2015, , .		12
169	Icing detection in unmanned aerial vehicles with longitudinal motion using an LPV unknown input observer. , 2015, , .		12
170	Dilated LMI characterization for the robust finite time control of discrete-time uncertain linear systems. Automatica, 2016, 63, 16-20.	5.0	12
171	Healthâ€aware model predictive control of wind turbines using fatigue prognosis. International Journal of Adaptive Control and Signal Processing, 2018, 32, 614-627.	4.1	12
172	Interval observer-based fault detectability analysis using mixed set-invariance theory and sensitivity analysis approach. International Journal of Systems Science, 2019, 50, 495-516.	5.5	12
173	Gaussian-Process-Based Demand Forecasting for Predictive Control of Drinking Water Networks. Lecture Notes in Computer Science, 2016, , 69-80.	1.3	12
174	Pressure Sensor Placement for Leak Localization in Water Distribution Networks Using Information Theory. Sensors, 2022, 22, 443.	3.8	12
175	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.	4.1	11
176	Adaptive Observer for Switching Linear Parameter-Varying (LPV) Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1471-1476.	0.4	11
177	Zonotopic extended Kalman filter and fault detection of discrete-time nonlinear systems applied to a quadrotor helicopter. , 2016, , .		11
178	Set-membership identification and fault detection using a Bayesian framework. International Journal of Systems Science, 2016, 47, 1710-1724.	5.5	11
179	BiDrac Industry 4.0 framework: Application to an Automotive Paint Shop Process. Control Engineering Practice, 2021, 109, 104757.	5.5	11
180	Fault Tolerant Model Predictive Control applied on the Barcelona Sewer Network. , 0, , .		10

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