Carlos Ocampo-Martinez

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Distributed Augmented Lagrangian Method for Link-Based Resource Sharing Problems of Multiagent Systems. IEEE Transactions on Automatic Control, 2022, 67, 3067-3074.	5.7	5
2	Data-driven energy prediction modeling for both energy efficiency and maintenance in smart manufacturing systems. Energy, 2022, 238, 121691.	8.8	34
3	A Payoff Dynamics Model for Equality-Constrained Population Games. , 2022, 6, 530-535.		9
4	Decentralized Charging Coordination of Electric Vehicles Under Feeder Capacity Constraints. IEEE Transactions on Control of Network Systems, 2022, 9, 1600-1610.	3.7	2
5	A Nonlinear Predictive Control Approach for Urban Drainage Networks Using Data-Driven Models and Moving Horizon Estimation. IEEE Transactions on Control Systems Technology, 2022, 30, 2147-2162.	5.2	5
6	Experimental Modelling and Optimal Torque Vectoring Control for 4WD Vehicles. IEEE Transactions on Vehicular Technology, 2022, 71, 4922-4932.	6.3	6
7	Operationally-Safe Peer-to-Peer Energy Trading in Distribution Grids: A Game-Theoretic Market-Clearing Mechanism. IEEE Transactions on Smart Grid, 2022, 13, 2897-2907.	9.0	28
8	A payoff dynamics model for generalized Nash equilibrium seeking in population games. Automatica, 2022, 140, 110227.	5.0	1
9	Multi-Objective-Based Tuning of Economic Model Predictive Control of Drinking Water Transport Networks. Water (Switzerland), 2022, 14, 1222.	2.7	3
10	Nash equilibrium seeking in full-potential population games under capacity and migration constraints. Automatica, 2022, 141, 110285.	5.0	3
11	Decentralized Control for Urban Drainage Systems Using Replicator Dynamics. IEEE Access, 2022, 10, 56740-56762.	4.2	2
12	On Distributed Nash Equilibrium Seeking in a Class of Contractive Population Games. , 2022, 6, 2972-2977.		1
13	A learning-based approach towards the data-driven predictive control of combined wastewater networks $\hat{a} \in \mathcal{C}$ An experimental study. Water Research, 2022, 221, 118782.	11.3	9
14	Approximate Wasserstein attraction flows for dynamic mass transport over networks. Automatica, 2022, 143, 110432.	5.0	1
15	Detection, Isolation, and Magnitude Estimation of Unknown Flows in Open-Channel Irrigation Systems. IEEE Access, 2021, 9, 115348-115369.	4.2	0
16	A Reduced-order Model for Real-time NMPC of Ethanol Steam Reformers. IFAC-PapersOnLine, 2021, 54, 103-108.	0.9	0
17	Modeling and control in open-channel irrigation systems: A review. Annual Reviews in Control, 2021, 51, 153-171.	7.9	29
18	Modular Feedback Control of Networked Systems by Clustering: A Drinking Water Network Case Study. Processes, 2021, 9, 389.	2.8	7

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19	Economic model predictive control of nonlinear systems using a linear parameter varying approach. International Journal of Robust and Nonlinear Control, 2021, 31, 8218-8238.	3.7	1
20	Predictive management approach for the coordination of wind and water-based power supplies. Energy, 2021, 219, 119535.	8.8	3
21	Adaptive predictive control for peripheral equipment management to enhance energy efficiency in smart manufacturing systems. Journal of Cleaner Production, 2021, 291, 125556.	9.3	6
22	Non-centralised control strategies for energy-efficient and flexible manufacturing systems. Journal of Manufacturing Systems, 2021, 59, 386-397.	13.9	7
23	Model-based control design for <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">altimg="si5.svg"><mml:msub><mml:mi mathvariant="normal">H<mml:mn>2</mml:mn></mml:mi </mml:msub></mml:math> purity regulation in high-pressure alkaline electrolyzers. Journal of the Franklin Institute. 2021, 358, 4373-4392.	3.4	7
24	Distributed data-driven UAV formation control via evolutionary games: Experimental results. Journal of the Franklin Institute, 2021, 358, 5334-5352.	3.4	10
25	A Distributed Augmented Lagrangian Method Over Stochastic Networks for Economic Dispatch of Large-Scale Energy Systems. IEEE Transactions on Sustainable Energy, 2021, 12, 1927-1934.	8.8	15
26	Event-triggered partitioning for non-centralized predictive-control-based economic dispatch of interconnected microgrids. Automatica, 2021, 132, 109829.	5.0	10
27	H2 purity control of high-pressure alkaline electrolyzers. IFAC-PapersOnLine, 2021, 54, 109-114.	0.9	4
28	An Unknown Input Moving Horizon Estimator for Open Channel Irrigation Systems. , 2021, , .		1
29	Application of Wasserstein Attraction Flows for Optimal Transport in Network Systems. , 2021, , .		1
30	Resilient distributed model predictive control for energy management of interconnected microgrids. Optimal Control Applications and Methods, 2020, 41, 146-169.	2.1	28
31	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
32	Dynamic modelling of alkaline self-pressurized electrolyzers: a phenomenological-based semiphysical approach. International Journal of Hydrogen Energy, 2020, 45, 22394-22407.	7.1	29
33	A comparison of modelling approaches for closed-loop decision making over discrete domains in manufacturing systems. , 2020, , .		0
34	Dual mode control strategy for the energy efficiency of complex and flexible manufacturing systems. Journal of Manufacturing Systems, 2020, 56, 104-116.	13.9	16
35	A non-centralized predictive control strategy for wind farm active power control: A wake-based partitioning approach. Renewable Energy, 2020, 150, 656-669.	8.9	24
36	Adaptive PI control with robust variable structure anti-windup strategy for systems with rate-limited actuators: Application to compression systems. Control Engineering Practice, 2020, 96, 104282.	5.5	18

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37	Fault detection for uncertain LPV systems using probabilistic set-membership parity relation. Journal of Process Control, 2020, 87, 27-36.	3.3	20
38	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.	1.9	3
39	Accelerated Multi-Agent Optimization Method over Stochastic Networks. , 2020, , .		2
40	Optimal production planning for flexible manufacturing systems: an energy-based approach. IFAC-PapersOnLine, 2020, 53, 10461-10467.	0.9	2
41	Nonlinearity Measures for Distributed Parameter and Descriptor Systems. IFAC-PapersOnLine, 2020, 53, 7545-7550.	0.9	1
42	Control-Oriented Modeling Approach for Open Channel Irrigation Systems. IFAC-PapersOnLine, 2020, 53, 16630-16635.	0.9	2
43	Online Network-Constrained Dispatch of Distributed Generators in Radial Networks. , 2020, , .		0
44	A wind farm control strategy for power reserve maximization. Renewable Energy, 2019, 131, 37-44.	8.9	51
45	Energy efficiency in discrete-manufacturing systems: Insights, trends, and control strategies. Journal of Manufacturing Systems, 2019, 52, 131-145.	13.9	76
46	Optimal operation of combined heat and power systems: An optimization-based control strategy. Energy Conversion and Management, 2019, 199, 111957.	9.2	17
47	Robust Zonotopic Observer Design: Interval Observer versus Set-membership Approaches. , 2019, , .		1
48	Model predictive control based on LPV models with parameter-varying delays. , 2019, , .		0
49	Risk index to monitor an anaerobic digester using a dynamic model based on dilution rate, temperature, and pH. Nonlinear Engineering, 2019, 9, 35-50.	2.7	3
50	A Resilient Approach for Distributed MPC-Based Economic Dispatch in Interconnected Microgrids. , 2019, , .		3
51	Advances in alkaline water electrolyzers: A review. Journal of Energy Storage, 2019, 23, 392-403.	8.1	356
52	Data-Driven Decentralized Algorithm for Wind Farm Control with Population-Games Assistance. Energies, 2019, 12, 1164.	3.1	6
53	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
54	An optimization-based control strategy for energy efficiency of discrete manufacturing systems. ISA Transactions, 2019, 93, 399-409.	5.7	7

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55	Time-varying partitioning for predictive control design: Density-games approach. Journal of Process Control, 2019, 75, 1-14.	3.3	30
56	Online partitioning method for decentralized control of linear switching large-scale systems. Journal of the Franklin Institute, 2019, 356, 3290-3313.	3.4	11
57	Control of Urban Drainage Systems: Optimal Flow Control and Deep Learning in Action. , 2019, , .		12
58	Energy Consumption Dynamical Models for Smart Factories Based on Subspace Identification Methods. , 2019, , .		0
59	Energy efficiency improvement through MPC-based peripherals management for an industrial process test-bench. IFAC-PapersOnLine, 2019, 52, 648-653.	0.9	3
60	Economic Model Predictive Control for Optimal Operation of Combined Heat and Power Systems. IFAC-PapersOnLine, 2019, 52, 141-146.	0.9	3
61	Decentralized Energy Management of Power Networks with Distributed Generation using Periodical Self-Sufficient Repartitioning Approach. , 2019, , .		6
62	FD-ZKF: A Zonotopic Kalman Filter optimizing fault detection rather than state estimation. Journal of Process Control, 2019, 73, 89-102.	3.3	29
63	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
64	Evolutionaryâ€games approach for distributed predictive control involving resource allocation. IET Control Theory and Applications, 2019, 13, 772-782.	2.1	6
65	Energy efficiency improvement of machine tools via peripheral devices management: An optimization-based control approach. , 2019, , .		1
66	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
67	Dataâ€driven fault diagnosis and robust control: Application to PEM fuel cell systems. International Journal of Robust and Nonlinear Control, 2018, 28, 3713-3727.	3.7	14
68	Resilient Distributed Energy Management for Systems of Interconnected Microgrids. , 2018, , .		7
69	Partitioning approach for large wind farms: Active power control for optimizing power reserve. , 2018, , .		2
70	Probability-Guaranteed Set-Membership State Estimation for Polynomially Uncertain Linear Time-Invariant Systems. , 2018, , .		3
71	Interval observer fault detection ensuring detectability and isolability by using a set-invariance approach. IFAC-PapersOnLine, 2018, 51, 1111-1118.	0.9	4

Partitioning of Large-Scale Systems using Game-Theoretic Coalitional Methods. , 2018, , .

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73	Atomicity and Non-Anonymity in Population-Like Games for the Energy Efficiency of Hybrid-Power HetNets. IEEE Transactions on Network and Service Management, 2018, 15, 1600-1614.	4.9	3
74	Mitigation of communication failures in distributed model predictive control strategies. IET Control Theory and Applications, 2018, 12, 2507-2515.	2.1	3
75	A multi-objective predictive control strategy for enhancing primary frequency support with wind farms. Journal of Physics: Conference Series, 2018, 1037, 032034.	0.4	5
76	A Game Theoretical Randomized Method for Large-Scale Systems Partitioning. IEEE Access, 2018, 6, 42245-42263.	4.2	16
77	Predictive control of wind farms based on lexicographic minimizers for power reserve maximization. , 2018, , .		6
78	Energy Efficiency of Hybrid-Power HetNets: A Population-like Games Approach. , 2018, , .		0
79	Formal controller synthesis for wastewater systems with signal temporal logic constraints: The Barcelona case study. Journal of Process Control, 2018, 69, 179-191.	3.3	10
80	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
81	Game-Theoretical Methods in Control of Engineering Systems: An Introduction to the Special Issue. IEEE Control Systems, 2017, 37, 30-32.	0.8	12
82	On the comparison of stochastic model predictive control strategies applied to a hydrogen-based microgrid. Journal of Power Sources, 2017, 343, 161-173.	7.8	78
83	Novel hybrid fuzzy-PID control scheme for air supply in PEM fuel-cell-based systems. International Journal of Hydrogen Energy, 2017, 42, 10435-10447.	7.1	117
84	Control-oriented model of a membrane humidifier for fuel cell applications. Energy Conversion and Management, 2017, 137, 121-129.	9.2	48
85	Thermal Management in Plug-In Hybrid Electric Vehicles: A Real-Time Nonlinear Model Predictive Control Implementation. IEEE Transactions on Vehicular Technology, 2017, 66, 7751-7760.	6.3	46
86	Dynamical tuning for MPC using population games: A water supply network application. ISA Transactions, 2017, 69, 175-186.	5.7	24
87	Robust Mpc for Actuator–Fault Tolerance Using Set–Based Passive Fault Detection and Active Fault Isolation. International Journal of Applied Mathematics and Computer Science, 2017, 27, 43-61.	1.5	19
88	Model predictive control for ethanol steam reformers with membrane separation. International Journal of Hydrogen Energy, 2017, 42, 1949-1961.	7.1	25
89	Reduced-order Interval-observer Design for Dynamic Systems with Time-invariant Uncertainty. IFAC-PapersOnLine, 2017, 50, 6271-6276.	0.9	13
90	A distributed predictive control approach for periodic flow-based networks: application to drinking water systems. International Journal of Systems Science, 2017, 48, 3106-3117.	5.5	9

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91	Non-centralized control for flow-based distribution networks: A game-theoretical insight. Journal of the Franklin Institute, 2017, 354, 5771-5796.	3.4	11
92	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
93	Stochastic model predictive control approaches applied to drinking water networks. Optimal Control Applications and Methods, 2017, 38, 541-558.	2.1	31
94	Setâ€valued observerâ€based active faultâ€ŧolerant model predictive control. Optimal Control Applications and Methods, 2017, 38, 683-708.	2.1	7
95	Peak shaving through closed-loop optimization applied to machine tools with periodic behaviour. , 2017, , .		1
96	Nonlinear Moving Horizon Estimator for Online Estimation of the Density and Viscosity of a Mineral Slurry. Industrial & Engineering Chemistry Research, 2017, 56, 14592-14603.	3.7	5
97	Partitioning for Large-scale Systems: A Sequential Distributed MPC Design * *This work has been partially supported by the project DEOCS (Ref. DPI2016-76493-C3-3-R). J. Barreiro-Gomez is partially supported by Colciencias and AGAUR IFAC-PapersOnLine, 2017, 50, 8838-8843.	0.9	10
98	On the Communication Discussion of Two Distributed Population-game Approaches for Optimization Purposes * *Authors would like to thank COLCIENCIAS (grant 6172) and the Agà ncia de GestiÃ ³ d'Ajust Universitaris i de Recerca, AGAUR, for supporting J. Barreiro-Gomez. Authors would also like to thank the project DEOCS (Ref. DPI2016-76493-C3-3-R), which have partially supported this work IFAC-PapersOnLine, 2017, 50, 11782-11787.	0.9	3
99	Robust Model Predictive Control with Signal Temporal Logic constraints for Barcelona Wastewater System. IFAC-PapersOnLine, 2017, 50, 6594-6600.	0.9	7
100	Observer-based Sensor Fault Detectability: About Robust Positive Invariance Approach and Residual Sensitivity * *This work was financially supported by Research Mobility Grant awarded by the University Paris-Saclay and a cooperation between Polytechnic University of Catalonia, Spain and CentraleSupelec, France. IFAC-PapersOnLine, 2017, 50, 5041-5046.	0.9	8
101	Economic model predictive control for energy dispatch of a smart micro-grid system. , 2017, , .		11
102	Embedded optimization-based controllers for industrial processes. , 2017, , .		1
103	Dynamic analysis of an ethanol steam reformer for hydrogen production. , 2017, , .		0
104	Reducing energy consumption in an industrial process by using model predictive control. , 2017, , .		5
105	Comparative assessment of LPV-based predictive control strategies for a pasteurization plant. , 2017, , .		5
106	Output-Feedback Model Predictive Control of a Pasteurization Pilot Plant based on an LPV model. Journal of Physics: Conference Series, 2017, 783, 012029.	0.4	4
107	Health-aware Model Predictive Control of Pasteurization Plant. Journal of Physics: Conference Series, 2017, 783, 012030.	0.4	3
108	Fault-Tolerant Model Predictive Control ofÂWater Transport Networks. Advances in Industrial Control, 2017, , 291-319.	0.5	2

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109	Data-Driven Evolutionary-Game-Based Control for Drinking-Water Networks. Advances in Industrial Control, 2017, , 363-383.	0.5	3
110	Economic Predictive Control of a Pasteurization Plant using a Linear Parameter Varying Model. Computer Aided Chemical Engineering, 2017, 40, 1573-1578.	0.5	7
111	Model Predictive Control ofÂWater Networks Considering Flow. Advances in Industrial Control, 2017, , 227-249.	0.5	0
112	Stochastic Model Predictive Control for Water Transport Networks with Demand Forecast Uncertainty. Advances in Industrial Control, 2017, , 269-290.	0.5	0
113	Partitioning Approaches for Large-Scale Water Transport Networks. Advances in Industrial Control, 2017, , 321-339.	0.5	0
114	Non-centralized Predictive Control for Drinking-Water Supply Systems. Advances in Industrial Control, 2017, , 341-360.	0.5	2
115	Reliability–based economic model predictive control for generalised flow–based networks including actuators' health–aware capabilities. International Journal of Applied Mathematics and Computer Science, 2016, 26, 641-654.	1.5	13
116	Distributed MPC with time-varying communication network: A density-dependent population games approach. , 2016, , .		6
117	Fast Model Predictive Control for hydrogen outflow regulation in Ethanol Steam Reformers. , 2016, , .		5
118	Distributed formation control of multiple unmanned aerial vehicles over time-varying graphs using population games. , 2016, , .		10
119	Algebraic observer design for PEM fuel cell system. , 2016, , .		5
120	Application of robust model predictive control to a renewable hydrogen-based microgrid. , 2016, , .		10
121	Characterization of the minimum detectable fault of interval observers by using set-invariance theory. , 2016, , .		6
122	Comparison of set-membership and interval observer approaches for state estimation of uncertain systems. , 2016, , .		7
123	Constrained distributed optimization: A population dynamics approach. Automatica, 2016, 69, 101-116.	5.0	52
124	Reliable fault-tolerant model predictive control of drinking water transport networks. Control Engineering Practice, 2016, 55, 197-211.	5.5	24
125	A differential game approach to urban drainage systems control. , 2016, , .		4
126	Nonlinear Model Predictive Control for Thermal Management in Plug-in Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	6.3	46

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127	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
128	Nonlinear Model Predictive Control for hydrogen production in an Ethanol Steam Reformer with membrane separation. , 2016, , .		3
129	MatSWMM – An open-source toolbox for designing real-time control of urban drainage systems. Environmental Modelling and Software, 2016, 83, 143-154.	4.5	48
130	Stock management in hospital pharmacy using chance-constrained model predictive control. Computers in Biology and Medicine, 2016, 72, 248-255.	7.0	36
131	Gaussian-Process-Based Demand Forecasting for Predictive Control of Drinking Water Networks. Lecture Notes in Computer Science, 2016, , 69-80.	1.3	12
132	On the Anode Pressure and Humidity Regulation in PEM Fuel Cells: a Nonlinear Predictive Control Approach. IFAC-PapersOnLine, 2015, 48, 434-439.	0.9	14
133	Distributed resource management by using population dynamics: Wastewater treatment application. , 2015, , .		6
134	Temperature regulation of a pilot-scale batch reaction system via explicit model predictive control. , 2015, , .		0
135	Robust Model Predictive Control based on Gaussian Processes: Application to drinking water networks. , 2015, , .		14
136	Multi-objective model-free control based on population dynamics and cooperative games. , 2015, , .		5
137	Outputâ€feedback control of combined sewer networks through receding horizon control with moving horizon estimation. Water Resources Research, 2015, 51, 8129-8145.	4.2	33
138	Time-Varying Scheme for Noncentralized Model Predictive Control of Large-Scale Systems. Mathematical Problems in Engineering, 2015, 2015, 1-17.	1.1	20
139	Model-free control for wind farms using a gradient estimation-based algorithm. , 2015, , .		7
140	An application of the Shapley value to perform system partitioning. , 2015, , .		12
141	Co-simulation for the design of controllers in urban drainage systems. , 2015, , .		1
142	Unfalsified adaptive control for manipulators with parameter uncertainties. , 2015, , .		0
143	Making Non-Centralized a Model Predictive Control Scheme by Using Distributed Smith Dynamics ³⁴⁴ This work is supported by the ANR project entitled Hamiltonian Methods for the Control of Multidomain Distributed Parameter Systems, HAMECMOPSYS financed by the French National Research Agency. Further information is available at http://www.hamecmopsys.ens2m.fr/ IFAC-PapersOnLine, 2015, 48,	0.9	2
144	501-506. Decentralized Control for Urban Drainage Systems via population dynamics: BogotÃi case study. , 2015, , .		15

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145	Nonlinear predictive control for the concentrations profile regulation under unknown reaction disturbances in a fuel cell anode gas channel. Journal of Power Sources, 2015, 282, 129-139.	7.8	17
146	Modeling, Diagnosis, and Control of Fuel-Cell-Based Technologies and Their Integration in Smart Grids and Automotive Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 5143-5145.	7.9	9
147	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
148	Model Predictive Control for Combined Water Supply and Navigability/Sustainability in River Systems. Operations Research/ Computer Science Interfaces Series, 2015, , 13-33.	0.3	1
149	Modeling and real-time control of urban drainage systems: A review. Advances in Water Resources, 2015, 85, 120-132.	3.8	160
150	Set-theoretic methods in robust detection and isolation of sensor faults. International Journal of Systems Science, 2015, 46, 2317-2334.	5.5	29
151	Fault-Tolerant Unfalsified Control for PEM Fuel Cell Systems. IEEE Transactions on Energy Conversion, 2015, 30, 307-315.	5.2	31
152	Real-Time Experimental Implementation of Predictive Control Schemes in a Small-Scale Pasteurization Plant. Lecture Notes in Control and Information Sciences, 2015, , 255-273.	1.0	6
153	Evolutionary Game-Based Dynamical Tuning for Multi-objective Model Predictive Control. Lecture Notes in Control and Information Sciences, 2015, , 115-138.	1.0	9
154	Economic MPC for the management of drinking water networks. , 2014, , .		18
155	A distributed command governor strategy for the operational control of drinking water networks. , 2014, , .		1
156	An application of chance-constrained model predictive control to inventory management in Hospitalary Pharmacy. , 2014, , .		5
157	Constrained distributed optimization based on population dynamics. , 2014, , .		7
158	Distributed control of Drinking Water Networks using population dynamics: Barcelona case study. , 2014, , .		7
159	Robust MPC for actuator-fault tolerance using set-based passive fault detection and active fault isolation. , 2014, , .		0
160	Nonlinear predictive control for the concentrations profile regulation in a PEM Fuel Cell anode gas channel. , 2014, , .		0
161	Sensor-fault tolerance using robust MPC with set-based state estimation and active fault isolation. , 2014, , .		7
162	Minimization of Sewage Network Overflow. Water Resources Management, 2014, 28, 41-63.	3.9	25

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163	Chance-constrained model predictive control for drinking water networks. Journal of Process Control, 2014, 24, 504-516.	3.3	112
164	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
165	A Gain-Scheduled LPV Control for Oxygen Stoichiometry Regulation in PEM Fuel Cell Systems. IEEE Transactions on Control Systems Technology, 2014, 22, 1837-1844.	5.2	41
166	Actuator-fault detection and isolation based on set-theoretic approaches. Journal of Process Control, 2014, 24, 947-956.	3.3	46
167	Improved Fault Detection and Isolation Strategy using a Bank of Interval Observers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 8024-8029.	0.4	2
168	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
169	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
170	Closed-loop Actuator-fault Detection and Isolation using Invariant Sets and Tubes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 8030-8035.	0.4	1
171	On the Comparison of Predictive Control and Command Governor Approaches for Operational Management of Drinking Water Networks: A Case Study. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6228-6233.	0.4	2
172	Hybrid modeling and receding horizon control of sewer networks. Water Resources Research, 2014, 50, 8497-8514.	4.2	25
173	Multi-layer Decentralized MPC of Large-scale Networked Systems. Intelligent Systems, Control and Automation: Science and Engineering, 2014, , 495-515.	0.5	12
174	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
175	Learning-based tuning of supervisory model predictive control for drinking water networks. Engineering Applications of Artificial Intelligence, 2013, 26, 1741-1750.	8.1	19
176	Sensor-fault detection and isolation using interval observers. , 2013, , .		3
177	On the relationship between interval observers and invariant sets in fault detection. , 2013, , .		5
178	On the implementation of gain-scheduled LPV control for oxygen stoichiometry regulation in PEM fuel cells. , 2013, , .		3
179	Flooding management using hybrid model predictive control: application to the Spanish Ebro River. Journal of Hydroinformatics, 2013, 15, 366-380.	2.4	9
180	Fault detection and isolation based on the combination of a bank of interval observers and invariant sets. , 2013, , .		6

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181	Receding horizon control of hybrid linear delayed systems: Application to sewer networks. , 2013, , .		3
182	Thermal modelling approach and model predictive control of a water-cooled PEM fuel cell system. , 2013, , .		4
183	Actuator-fault detection and isolation based on interval observers and invariant sets. , 2013, , .		3
184	A multiobjective-based switching topology for hierarchical model predictive control applied to a hydro-power valley. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 534-539.	0.4	16
185	A service reliability model predictive control with dynamic safety stocks and actuators health monitoring for drinking water networks. , 2012, , .		11
186	Methodology for actuator fault tolerance evaluation of linear constrained MPC: Application to the Barcelona water network. , 2012, , .		3
187	Hierarchical temporal multi-layer decentralised MPC strategy for drinking water networks: Application to the Barcelona case study. , 2012, , .		3
188	Model predictive control of combined irrigation and water supply systems: Application to the Guadiana river. , 2012, , .		14
189	Design of optimization-based controllers applied to an ethanol steam reformer for hydrogen production. International Journal of Hydrogen Energy, 2012, 37, 11141-11156.	7.1	13
190	Adaptive multilevel neuro-fuzzy Model Predictive Control for Drinking Water Networks. , 2012, , .		2
191	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
192	Hierarchical and decentralised model predictive control of drinking water networks: application to Barcelona case study. IET Control Theory and Applications, 2012, 6, 62.	2.1	76
193	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
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