

JosÃ© Manuel Bravo Caro

List of Publications by Year in descending order

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46
papers

2,544
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331670

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docs citations

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times ranked

2110
citing authors

#	ARTICLE	IF	CITATIONS
1	A binary-regularization-based model predictive control applied to generation scheduling in concentrating solar power plants. <i>Optimal Control Applications and Methods</i> , 2020, 41, 215-238.	2.1	7
2	A new way of measuring the WTI - Brent spread. Globalization, shock persistence and common trends.. <i>Energy Economics</i> , 2020, 85, 104546.	12.1	17
3	Optimal scheduling in concentrating solar power plants oriented to low generation cycling. <i>Renewable Energy</i> , 2019, 135, 789-799.	8.9	14
4	An exudate detection method for diagnosis risk of diabetic macular edema in retinal images using feature-based and supervised classification. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 1379-1390.	2.8	36
5	Scheduling in concentrating solar power plants based on mixed-integer optimization and binary-regularization. , 2018, , .		0
6	Scheduling in Concentrating Solar Power Plants Based on Model Predictive Control and Binary-Regularization Methods. , 2018, , .		1
7	Concentrated solar power plant simulator for education purpose. , 2018, , .		0
8	A lifetime-extending model-based predictive control for scheduling in concentrating solar power plants. , 2018, , .		3
9	Interval Predictor based on Supporting Hyperplanes. , 2018, , .		0
10	A tool for automated diabetic retinopathy pre-screening based on retinal image computer analysis. <i>Computers in Biology and Medicine</i> , 2017, 88, 100-109.	7.0	33
11	Calculating the profits of an economic MPC applied to CSP plants with thermal storage system. <i>Solar Energy</i> , 2017, 155, 1165-1177.	6.1	14
12	A General Framework for Predictors Based on Bounding Techniques and Local Approximation. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 3430-3435.	5.7	29
13	Economic MPC applied to generation scheduling in CSP plants * *This work was supported by DPI2016-76493-C3-2-R of Ministerio de EconomÃa y Competitividad (Spain). <i>IFAC-PapersOnLine</i> , 2017, 50, 115-120.	0.9	3
14	Fault detection method based on bounded error and dynamic threshold techniques. <i>International Journal of Adaptive Control and Signal Processing</i> , 2016, 30, 256-270.	4.1	2
15	A novel two-model based approach for optimal scheduling in CSP plants. <i>Solar Energy</i> , 2016, 126, 73-92.	6.1	30
16	A MPC approach for optimal generation scheduling in CSP plants. <i>Applied Energy</i> , 2016, 165, 357-370.	10.1	57
17	Slide Window Bounded-Error Time-Varying Systems Identification. <i>IEEE Transactions on Automatic Control</i> , 2016, 61, 2282-2287.	5.7	17
18	Combined Stochastic and Deterministic Interval Predictor - This research has been supported by DPI2012-33309 and DPI2013-48243-C2-2-R of Ministerio de EconomÃa y Competitividad (Spain).. <i>IFAC-PapersOnLine</i> , 2015, 48, 320-325.	0.9	0

#	ARTICLE	IF	CITATIONS
19	Combined stochastic and deterministic interval predictor for time-varying systems. , 2015, , .		1
20	Interval predictor based on a Reversed Huber's error function. , 2015, , .		0
21	Obtaining optic disc center and pixel region by automatic thresholding methods on morphologically processed fundus images. Computer Methods and Programs in Biomedicine, 2015, 118, 173-185.	4.7	89
22	Robust predictor for nonlinear systems based on bounding-error methods. , 2014, , .		0
23	Data-driven bounded-error fault detection. International Journal of Adaptive Control and Signal Processing, 2014, 28, 1299-1324.	4.1	4
24	Locating the fovea center position in digital fundus images using thresholding and feature extraction techniques. Computerized Medical Imaging and Graphics, 2013, 37, 386-393.	5.8	60
25	Optimal sizing for UPS systems based on batteries and/or fuel cell. Applied Energy, 2013, 105, 170-181.	10.1	46
26	Oracle based approach to admissible invariant sets. , 2012, , .		0
27	A Function for Quality Evaluation of Retinal Vessel Segmentations. IEEE Transactions on Medical Imaging, 2012, 31, 231-239.	8.9	64
28	A New Supervised Method for Blood Vessel Segmentation in Retinal Images by Using Gray-Level and Moment Invariants-Based Features. IEEE Transactions on Medical Imaging, 2011, 30, 146-158.	8.9	759
29	Robust fault detection using zonotope-based set-membership consistency test. International Journal of Adaptive Control and Signal Processing, 2009, 23, 311-330.	4.1	92
30	Input-to-State Stability: A Unifying Framework for Robust Model Predictive Control. Lecture Notes in Control and Information Sciences, 2009, , 1-26.	1.0	115
31	Identification of piecewise affine systems by means of fuzzy clustering and competitive learning. Engineering Applications of Artificial Intelligence, 2008, 21, 1321-1329.	8.1	40
32	A set-membership state estimation algorithm based on DC programming. Automatica, 2008, 44, 216-224.	5.0	74
33	An algorithm for bounded-error identification of nonlinear systems based on DC functions. Automatica, 2008, 44, 437-444.	5.0	17
34	A convex approximation of the feasible solution set for nonlinear bounded-error identification problems. , 2007, , .		1
35	On the Computation of Robust Control Invariant Sets for Piecewise Affine Systems. , 2007, , 131-139.		6
36	Interval Arithmetic in Robust Nonlinear MPC. , 2007, , 317-326.		6

#	ARTICLE	IF	CITATIONS
37	Bounded Error Identification of Systems With Time-Varying Parameters. IEEE Transactions on Automatic Control, 2006, 51, 1144-1150.	5.7	103
38	Robust MPC of constrained discrete-time nonlinear systems based on approximated reachable sets. Automatica, 2006, 42, 1745-1751.	5.0	90
39	Guaranteed state estimation by zonotopes. Automatica, 2005, 41, 1035-1043.	5.0	492
40	On the computation of invariant sets for constrained nonlinear systems: An interval arithmetic approach. Automatica, 2005, 41, 1583-1589.	5.0	71
41	Robust MPC of constrained nonlinear systems based on interval arithmetic. IET Control Theory and Applications, 2005, 152, 325-332.	1.7	71
42	Multivariable fuzzy control applied to the physical-chemical treatment facility of a Cellulose factory. Fuzzy Sets and Systems, 2005, 150, 475-492.	2.7	30
43	Bounded error identification of systems with time-varying parameters. , 2004, , .		2
44	Stability analysis and synthesis of multivariable fuzzy systems using interval arithmetic. Fuzzy Sets and Systems, 2004, 148, 337-353.	2.7	29
45	Robust MPC of constrained discrete-time nonlinear systems based on zonotopes. , 2003, , .		4
46	Robust Fault Diagnosis using Parallelotope-based Set-membership Consistency Tests. , 0, , .		15