

JosÃ© Manuel Bravo Caro

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

2,544
citations

331670

21
h-index

454955

30
g-index

46
all docs

46
docs citations

46
times ranked

2110
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | 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 |
| 2 | Guaranteed state estimation by zonotopes. Automatica, 2005, 41, 1035-1043. | 5.0 | 492 |
| 3 | 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 |
| 4 | Bounded Error Identification of Systems With Time-Varying Parameters. IEEE Transactions on Automatic Control, 2006, 51, 1144-1150. | 5.7 | 103 |
| 5 | 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 |
| 6 | Robust MPC of constrained discrete-time nonlinear systems based on approximated reachable sets. Automatica, 2006, 42, 1745-1751. | 5.0 | 90 |
| 7 | 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 |
| 8 | A set-membership state estimation algorithm based on DC programming. Automatica, 2008, 44, 216-224. | 5.0 | 74 |
| 9 | On the computation of invariant sets for constrained nonlinear systems: An interval arithmetic approach. Automatica, 2005, 41, 1583-1589. | 5.0 | 71 |
| 10 | Robust MPC of constrained nonlinear systems based on interval arithmetic. IET Control Theory and Applications, 2005, 152, 325-332. | 1.7 | 71 |
| 11 | A Function for Quality Evaluation of Retinal Vessel Segmentations. IEEE Transactions on Medical Imaging, 2012, 31, 231-239. | 8.9 | 64 |
| 12 | 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 |
| 13 | A MPC approach for optimal generation scheduling in CSP plants. Applied Energy, 2016, 165, 357-370. | 10.1 | 57 |
| 14 | Optimal sizing for UPS systems based on batteries and/or fuel cell. Applied Energy, 2013, 105, 170-181. | 10.1 | 46 |
| 15 | 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 |
| 16 | An exudate detection method for diagnosis risk of diabetic macular edema in retinal images using feature-based and supervised classification. Medical and Biological Engineering and Computing, 2018, 56, 1379-1390. | 2.8 | 36 |
| 17 | A tool for automated diabetic retinopathy pre-screening based on retinal image computer analysis. Computers in Biology and Medicine, 2017, 88, 100-109. | 7.0 | 33 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | A novel two-model based approach for optimal scheduling in CSP plants. Solar Energy, 2016, 126, 73-92. | 6.1 | 30 |
| 20 | Stability analysis and synthesis of multivariable fuzzy systems using interval arithmetic. Fuzzy Sets and Systems, 2004, 148, 337-353. | 2.7 | 29 |
| 21 | A General Framework for Predictors Based on Bounding Techniques and Local Approximation. IEEE Transactions on Automatic Control, 2017, 62, 3430-3435. | 5.7 | 29 |
| 22 | An algorithm for bounded-error identification of nonlinear systems based on DC functions. Automatica, 2008, 44, 437-444. | 5.0 | 17 |
| 23 | Slide Window Bounded-Error Time-Varying Systems Identification. IEEE Transactions on Automatic Control, 2016, 61, 2282-2287. | 5.7 | 17 |
| 24 | A new way of measuring the WTI â€œ Brent spread. Globalization, shock persistence and common trends.. Energy Economics, 2020, 85, 104546. | 12.1 | 17 |
| 25 | Robust Fault Diagnosis using Paralleloptope-based Set-membership Consistency Tests. , 0, , . | | 15 |
| 26 | Calculating the profits of an economic MPC applied to CSP plants with thermal storage system. Solar Energy, 2017, 155, 1165-1177. | 6.1 | 14 |
| 27 | Optimal scheduling in concentrating solar power plants oriented to low generation cycling. Renewable Energy, 2019, 135, 789-799. | 8.9 | 14 |
| 28 | A binaryâ€œregularizationâ€œbased model predictive control applied to generation scheduling in concentrating solar power plants. Optimal Control Applications and Methods, 2020, 41, 215-238. | 2.1 | 7 |
| 29 | On the Computation of Robust Control Invariant Sets for Piecewise Affine Systems. , 2007, , 131-139. | | 6 |
| 30 | Interval Arithmetic in Robust Nonlinear MPC. , 2007, , 317-326. | | 6 |
| 31 | Robust MPC of constrained discrete-time nonlinear systems based on zonotopes. , 2003, , . | | 4 |
| 32 | Dataâ€œdriven boundedâ€œerror fault detection. International Journal of Adaptive Control and Signal Processing, 2014, 28, 1299-1324. | 4.1 | 4 |
| 33 | Economic MPC applied to generation scheduling in CSP plants * *This work was supported by DPI2016-76493-C3-2-R of Ministerio de Economia y Competitividad (Spain). IFAC-PapersOnLine, 2017, 50, 115-120. | 0.9 | 3 |
| 34 | A lifetime-extending model-based predictive control for scheduling in concentrating solar power plants. , 2018, , . | | 3 |
| 35 | Bounded error identification of systems with time-varying parameters. , 2004, , . | | 2 |
| 36 | Fault detection method based on bounded error and dynamic threshold techniques. International Journal of Adaptive Control and Signal Processing, 2016, 30, 256-270. | 4.1 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | A convex approximation of the feasible solution set for nonlinear bounded-error identification problems. , 2007, , . | | 1 |
| 38 | Combined stochastic and deterministic interval predictor for time-varying systems. , 2015, , . | | 1 |
| 39 | Scheduling in Concentrating Solar Power Plants Based on Model Predictive Control and Binary-Regularization Methods. , 2018, , . | | 1 |
| 40 | Oracle based approach to admissible invariant sets. , 2012, , . | | 0 |
| 41 | Robust predictor for nonlinear systems based on bounding-error methods. , 2014, , . | | 0 |
| 42 | Combined Stochastic and Deterministic Interval Predictor—This research has been supported by DPI2012-33309 and DPI2013-48243-C2-2-R of Ministerio de Economía y Competitividad (Spain).. IFAC-PapersOnLine, 2015, 48, 320-325. | 0.9 | 0 |
| 43 | Interval predictor based on a Reversed Huber's error function. , 2015, , . | | 0 |
| 44 | Scheduling in concentrating solar power plants based on mixed-integer optimization and binary-regularization. , 2018, , . | | 0 |
| 45 | Concentrated solar power plant simulator for education purpose. , 2018, , . | | 0 |
| 46 | Interval Predictor based on Supporting Hyperplanes. , 2018, , . | | 0 |