

Antonio Vicino

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

3,400
citations

279798

23
h-index

214800

47
g-index

83
all docs

83
docs citations

83
times ranked

2201
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal estimation theory for dynamic systems with set membership uncertainty. <i>Automatica</i> , 1991, 27, 997-1009.	5.0	621
2	A bounded-error approach to piecewise affine system identification. <i>IEEE Transactions on Automatic Control</i> , 2005, 50, 1567-1580.	5.7	291
3	Polynomially parameter-dependent Lyapunov functions for robust stability of polytopic systems: an LMI approach. <i>IEEE Transactions on Automatic Control</i> , 2005, 50, 365-370.	5.7	217
4	Load Scheduling for Household Energy Consumption Optimization. <i>IEEE Transactions on Smart Grid</i> , 2013, 4, 2364-2373.	9.0	213
5	Homogeneous Lyapunov functions for systems with structured uncertainties. <i>Automatica</i> , 2003, 39, 1027-1035.	5.0	172
6	Homogeneous Polynomial Forms for Robustness Analysis of Uncertain Systems. <i>Lecture Notes in Control and Information Sciences</i> , 2009, , .	1.0	164
7	Sequential approximation of feasible parameter sets for identification with set membership uncertainty. <i>IEEE Transactions on Automatic Control</i> , 1996, 41, 774-785.	5.7	160
8	Solving quadratic distance problems: an LMI-based approach. <i>IEEE Transactions on Automatic Control</i> , 2003, 48, 200-212.	5.7	146
9	Demand-response in building heating systems: A Model Predictive Control approach. <i>Applied Energy</i> , 2016, 168, 159-170.	10.1	135
10	The automatic control telelab: a user-friendly interface for distance learning. <i>IEEE Transactions on Education</i> , 2003, 46, 252-257.	2.4	131
11	Robust stability of time-varying polytopic systems via parameter-dependent homogeneous Lyapunov functions. <i>Automatica</i> , 2007, 43, 309-316.	5.0	118
12	A survey on switched and piecewise affine system identification. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 344-355.	0.4	115
13	Estimation theory for nonlinear models and set membership uncertainty. <i>Automatica</i> , 1991, 27, 403-408.	5.0	91
14	Models and Techniques for Electric Load Forecasting in the Presence of Demand Response. <i>IEEE Transactions on Control Systems Technology</i> , 2015, 23, 1087-1097.	5.2	84
15	Nonlinear time series analysis of dissolved oxygen in the Orbetello Lagoon (Italy). <i>Ecological Modelling</i> , 2007, 203, 339-348.	2.5	49
16	Input Design in Worst-Case System Identification Using Binary Sensors. <i>IEEE Transactions on Automatic Control</i> , 2011, 56, 1186-1191.	5.7	42
17	Input design in worst-case system identification with quantized measurements. <i>Automatica</i> , 2012, 48, 2997-3007.	5.0	36
18	Comparison of recurrence quantification methods for the analysis of temporal and spatial chaos. <i>Mathematical and Computer Modelling</i> , 2011, 53, 1535-1545.	2.0	33

#	ARTICLE	IF	CITATIONS
19	Identifying the dynamics of complex spatio-temporal systems by spatial recurrence properties. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8097-8102.	7.1	29
20	Load forecasting for active distribution networks. , 2011, , .		29
21	Time complexity and input design in worst-case identification using binary sensors. , 2007, , .		28
22	Toolbox for aggregator of flexible demand. , 2012, , .		28
23	A Remote Lab for Experiments with a Team of Mobile Robots. Sensors, 2014, 14, 16486-16507.	3.8	27
24	Bidding Wind Energy Exploiting Wind Speed Forecasts. IEEE Transactions on Power Systems, 2016, 31, 2647-2656.	6.5	27
25	Periodic solutions in modelling lagoon ecological interactions. Journal of Mathematical Biology, 2005, 51, 367-388.	1.9	24
26	Vaginal Immunization to Elicit Primary T-Cell Activation and Dissemination. PLoS ONE, 2013, 8, e80545.	2.5	24
27	Optimization models for consumer flexibility aggregation in smart grids: The ADDRESS approach. , 2011, , .		22
28	A convex approach to a class of minimum norm problems. , 1999, , 359-372.		20
29	Operating Remote Laboratories Through a Bootable Device. IEEE Transactions on Industrial Electronics, 2007, 54, 3134-3140.	7.9	20
30	Generalized recurrence plots for the analysis of images from spatially distributed systems. Physica D: Nonlinear Phenomena, 2009, 238, 162-169.	2.8	19
31	Appliance operation scheduling for electricity consumption optimization. , 2011, , .		19
32	Model estimation of photovoltaic power generation using partial information. , 2013, , .		18
33	Straight Line Path-Planning in Visual Servoing. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2007, 129, 541-543.	1.6	15
34	A Stochastic Model for CD4+ T Cell Proliferation and Dissemination Network in Primary Immune Response. PLoS ONE, 2015, 10, e0135787.	2.5	15
35	A LEGO Mindstorms experimental setup for multi-agent systems. , 2009, , .		14
36	Feasible Parameter Set Approximation for Linear Models with Bounded Uncertain Regressors. IEEE Transactions on Automatic Control, 2014, 59, 2910-2920.	5.7	14

#	ARTICLE	IF	CITATIONS
37	Stochastic Energy Pricing of an Electric Vehicle Parking Lot. IEEE Transactions on Smart Grid, 2022, 13, 3069-3081.	9.0	14
38	A LEGO Mindstorms multi-robot setup in the Automatic Control Telelab. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9812-9817.	0.4	13
39	A Non-Linear Deterministic Model for Regulation of Diauxic Lag on Cellobiose by the Pneumococcal Multidomain Transcriptional Regulator CelR. PLoS ONE, 2012, 7, e47393.	2.5	12
40	Model estimation for solar generation forecasting using cloud cover data. Solar Energy, 2017, 157, 1032-1046.	6.1	12
41	On input design in $\langle \text{mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/xml/common/struct-cite/dtd" \rangle$	5.0	8
42	Optimal input design for identification of systems with quantized measurements. , 2008, , .		8
43	A Matlab-based Remote Lab for Multi-Robot Experiments. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 42, 162-167.	0.4	8
44	Set-membership identification of ARX models with quantized measurements. , 2011, , .		7
45	Electric load forecasting in the presence of Active Demand. , 2012, , .		7
46	A constraint selection technique for set membership estimation of time-varying parameters. , 2014, , .		7
47	Estimation of photovoltaic generation forecasting models using limited information. Automatica, 2020, 113, 108688.	5.0	7
48	A necessary and sufficient condition for input-output realization of switched affine state space models. , 2008, , .		6
49	Input design for worst-case system identification with uniformly quantized measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 54-59.	0.4	6
50	Convex relaxations for L2-gain analysis of piecewise affine/polynomial systems. International Journal of Control, 2013, 86, 1207-1213.	1.9	6
51	Wind power bidding in a soft penalty market. , 2013, , .		5
52	Receding horizon control for demand-response operation of building heating systems. , 2014, , .		5
53	Vertices and segments of interval plants are not sufficient for step response analyses. Systems and Control Letters, 1992, 19, 365-370.	2.3	4
54	Regularity Conditions for the Stability Margin Problem with Linear Dependent Perturbations. SIAM Journal on Control and Optimization, 1995, 33, 1000-1016.	2.1	4

#	ARTICLE	IF	CITATIONS
55	Exploiting weather forecasts for sizing photovoltaic energy bids. , 2013, , .		4
56	Estimation of a simple model of solar power generation using partial information. , 2013, , .		4
57	Frequency response of interval plant-controller families. Systems and Control Letters, 1992, 18, 347-354.	2.3	3
58	A Convex Lower Bound for the Real $\{l\}_2$ Parametric Stability Margin of Linear Control Systems With Restricted Complexity Controllers. IEEE Transactions on Automatic Control, 2007, 52, 514-520.	5.7	3
59	A remote lab for multi-robot experiments with virtual obstacles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 354-359.	0.4	3
60	Equivalence of sum of squares convex relaxations for quadratic distance problems. International Journal of Robust and Nonlinear Control, 2013, 23, 965-977.	3.7	3
61	Identification of a branching process model for adaptive immune response. , 2013, , .		3
62	Analysis and models of electricity prices in the Italian ancillary services market. , 2014, , .		3
63	Receding Horizon Voltage Control in LV Networks with Energy Storage. , 2016, , .		3
64	A recursive technique for tracking the feasible parameter set in bounded error estimation. International Journal of Adaptive Control and Signal Processing, 2017, 31, 1456-1466.	4.1	3
65	Efficient computation of $\hat{\alpha}_1$ uncertainty model from an impulse response set. Automatica, 2008, 44, 2570-2576.	5.0	2
66	Bounding nonconvex feasible sets in set membership identification: OE and ARX models with quantized information. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1191-1196.	0.4	2
67	Computational methods for technical validation of demand response products. , 2015, , .		2
68	Optimal management of energy storage systems for residential customers with photovoltaic generation. , 2018, , .		2
69	Estimating PV forecasting models from power data. , 2018, , .		2
70	Convex relaxations for quadratic distance problems. , 2008, , .		1
71	Convex relaxations in circuits, systems, and control. IEEE Circuits and Systems Magazine, 2009, 9, 46-56.	2.3	1
72	A bilevel programming framework for piecewise affine system identification. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
73	Stochastic and deterministic formulations for capacity firming nominations. , 2020, , .		1
74	Linear Fractional Representations and L_2 -Stability Analysis of Continuous Piecewise Affine Systems. , 2021, 5, 229-234.		1
75	A Matlab-Based Remote Lab for Control and Robotics Education. , 2009, , 127-151.		1
76	L_2 -stability of hinging hyperplane models via integral quadratic constraints. , 2008, , .		0
77	Path planning with uncertainty: A set membership approach. International Journal of Adaptive Control and Signal Processing, 2011, 25, 273-287.	4.1	0
78	9th IFAC Symposium on Advances in Control Education (ACE 2012) [Conference Reports]. IEEE Control Systems, 2013, 33, 71-76.	0.8	0
79	A Scenario-Based Framework for Technical Validation of Demand Response. , 2018, , .		0