

# Antonio Vicino

## List of Publications by Year in descending order

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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	Stochastic Energy Pricing of an Electric Vehicle Parking Lot. IEEE Transactions on Smart Grid, 2022, 13, 3069-3081.	9.0	14
2	Linear Fractional Representations and $L_1$ -Stability Analysis of Continuous Piecewise Affine Systems. , 2021, 5, 229-234.		1
3	Estimation of photovoltaic generation forecasting models using limited information. Automatica, 2020, 113, 108688.	5.0	7
4	Stochastic and deterministic formulations for capacity firming nominations. , 2020, , .		1
5	A bilevel programming framework for piecewise affine system identification. , 2019, , .		1
6	A Scenario-Based Framework for Technical Validation of Demand Response. , 2018, , .		0
7	Optimal management of energy storage systems for residential customers with photovoltaic generation. , 2018, , .		2
8	Estimating PV forecasting models from power data. , 2018, , .		2
9	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
10	Model estimation for solar generation forecasting using cloud cover data. Solar Energy, 2017, 157, 1032-1046.	6.1	12
11	Receding Horizon Voltage Control in LV Networks with Energy Storage. , 2016, , .		3
12	Bidding Wind Energy Exploiting Wind Speed Forecasts. IEEE Transactions on Power Systems, 2016, 31, 2647-2656.	6.5	27
13	Demand-response in building heating systems: A Model Predictive Control approach. Applied Energy, 2016, 168, 159-170.	10.1	135
14	Computational methods for technical validation of demand response products. , 2015, , .		2
15	A Stochastic Model for CD4+ T Cell Proliferation and Dissemination Network in Primary Immune Response. PLoS ONE, 2015, 10, e0135787.	2.5	15
16	Models and Techniques for Electric Load Forecasting in the Presence of Demand Response. IEEE Transactions on Control Systems Technology, 2015, 23, 1087-1097.	5.2	84
17	A Remote Lab for Experiments with a Team of Mobile Robots. Sensors, 2014, 14, 16486-16507.	3.8	27
18	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
19	A constraint selection technique for set membership estimation of time-varying parameters. , 2014, , .		7
20	Analysis and models of electricity prices in the Italian ancillary services market. , 2014, , .		3
21	Receding horizon control for demand-response operation of building heating systems. , 2014, , .		5
22	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
23	Wind power bidding in a soft penalty market. , 2013, , .		5
24	Model estimation of photovoltaic power generation using partial information. , 2013, , .		18
25	Exploiting weather forecasts for sizing photovoltaic energy bids. , 2013, , .		4
26	Load Scheduling for Household Energy Consumption Optimization. IEEE Transactions on Smart Grid, 2013, 4, 2364-2373.	9.0	213
27	Convex relaxations for L2-gain analysis of piecewise affine/polynomial systems. International Journal of Control, 2013, 86, 1207-1213.	1.9	6
28	Estimation of a simple model of solar power generation using partial information. , 2013, , .		4
29	Identification of a branching process model for adaptive immune response. , 2013, , .		3
30	9th IFAC Symposium on Advances in Control Education (ACE 2012) [Conference Reports]. IEEE Control Systems, 2013, 33, 71-76.	0.8	0
31	Vaginal Immunization to Elicit Primary T-Cell Activation and Dissemination. PLoS ONE, 2013, 8, e80545.	2.5	24
32	Electric load forecasting in the presence of Active Demand. , 2012, , .		7
33	Toolbox for aggregator of flexible demand. , 2012, , .		28
34	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
35	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
36	A survey on switched and piecewise affine system identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 344-355.	0.4	115

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37	Input design in worst-case system identification with quantized measurements. Automatica, 2012, 48, 2997-3007.	5.0	36
38	A Non-Linear Deterministic Model for Regulation of Diauxic Lag on Cellobiose by the Pneumococcal Multidomain Transcriptional Regulator CélR. PLoS ONE, 2012, 7, e47393.	2.5	12
39	Load forecasting for active distribution networks. , 2011, , .		29
40	Input Design in Worst-Case System Identification Using Binary Sensors. IEEE Transactions on Automatic Control, 2011, 56, 1186-1191.	5.7	42
41	Optimization models for consumer flexibility aggregation in smart grids: The ADDRESS approach. , 2011, , .		22
42	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
43	Path planning with uncertainty: A set membership approach. International Journal of Adaptive Control and Signal Processing, 2011, 25, 273-287.	4.1	0
44	Comparison of recurrence quantification methods for the analysis of temporal and spatial chaos. Mathematical and Computer Modelling, 2011, 53, 1535-1545.	2.0	33
45	Appliance operation scheduling for electricity consumption optimization. , 2011, , .		19
46	Set-membership identification of ARX models with quantized measurements. , 2011, , .		7
47	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
48	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
49	Generalized recurrence plots for the analysis of images from spatially distributed systems. Physica D: Nonlinear Phenomena, 2009, 238, 162-169.	2.8	19
50	A LEGO Mindstorms experimental setup for multi-agent systems. , 2009, , .		14
51	Convex relaxations in circuits, systems, and control. IEEE Circuits and Systems Magazine, 2009, 9, 46-56.	2.3	1
52	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
53	Homogeneous Polynomial Forms for Robustness Analysis of Uncertain Systems. Lecture Notes in Control and Information Sciences, 2009, , .	1.0	164
54	A Matlab-Based Remote Lab for Control and Robotics Education. , 2009, , 127-151.		1

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55	Efficient computation of $\hat{\sigma}_1$ uncertainty model from an impulse response set. Automatica, 2008, 44, 2570-2576.	5.0	2
56	A necessary and sufficient condition for input-output realization of switched affine state space models. , 2008, , .		6
57	Convex relaxations for quadratic distance problems. , 2008, , .		1
58	Optimal input design for identification of systems with quantized measurements. , 2008, , .		8
59	$L_2$ -stability of hinging hyperplane models via integral quadratic constraints. , 2008, , .		0
60	Time complexity and input design in worst-case identification using binary sensors. , 2007, , .		28
61	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
62	A Convex Lower Bound for the Real $\sigma_{\min}$ Parametric Stability Margin of Linear Control Systems With Restricted Complexity Controllers. IEEE Transactions on Automatic Control, 2007, 52, 514-520.	5.7	3
63	Operating Remote Laboratories Through a Bootable Device. IEEE Transactions on Industrial Electronics, 2007, 54, 3134-3140.	7.9	20
64	Robust stability of time-varying polytopic systems via parameter-dependent homogeneous Lyapunov functions. Automatica, 2007, 43, 309-316.	5.0	118
65	Nonlinear time series analysis of dissolved oxygen in the Orbetello Lagoon (Italy). Ecological Modelling, 2007, 203, 339-348.	2.5	49
66	On input design in $\mathcal{H}_2$ norm minimization. IEEE Transactions on Automatic Control, 2007, 52, 1567-1580.	5.0	8
67	Periodic solutions in modelling lagoon ecological interactions. Journal of Mathematical Biology, 2005, 51, 367-388.	1.9	24
68	A bounded-error approach to piecewise affine system identification. IEEE Transactions on Automatic Control, 2005, 50, 1567-1580.	5.7	291
69	Polynomially parameter-dependent Lyapunov functions for robust stability of polytopic systems: an LMI approach. IEEE Transactions on Automatic Control, 2005, 50, 365-370.	5.7	217
70	The automatic control telelab: a user-friendly interface for distance learning. IEEE Transactions on Education, 2003, 46, 252-257.	2.4	131
71	Homogeneous Lyapunov functions for systems with structured uncertainties. Automatica, 2003, 39, 1027-1035.	5.0	172
72	Solving quadratic distance problems: an LMI-based approach. IEEE Transactions on Automatic Control, 2003, 48, 200-212.	5.7	146

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73	A convex approach to a class of minimum norm problems. , 1999, , 359-372.		20
74	Sequential approximation of feasible parameter sets for identification with set membership uncertainty. IEEE Transactions on Automatic Control, 1996, 41, 774-785.	5.7	160
75	Regularity Conditions for the Stability Margin Problem with Linear Dependent Perturbations. SIAM Journal on Control and Optimization, 1995, 33, 1000-1016.	2.1	4
76	Frequency response of interval plant-controller families. Systems and Control Letters, 1992, 18, 347-354.	2.3	3
77	Vertices and segments of interval plants are not sufficient for step response analyses. Systems and Control Letters, 1992, 19, 365-370.	2.3	4
78	Estimation theory for nonlinear models and set membership uncertainty. Automatica, 1991, 27, 403-408.	5.0	91
79	Optimal estimation theory for dynamic systems with set membership uncertainty. Automatica, 1991, 27, 997-1009.	5.0	621