

Marco Campi

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

4,577
citations

257450

24
h-index

330143

37
g-index

69
all docs

69
docs citations

69
times ranked

1743
citing authors

#	ARTICLE	IF	CITATIONS
1	Virtual reference feedback tuning: a direct method for the design of feedback controllers. <i>Automatica</i> , 2002, 38, 1337-1346.	5.0	871
2	The Scenario Approach to Robust Control Design. <i>IEEE Transactions on Automatic Control</i> , 2006, 51, 742-753.	5.7	801
3	Uncertain convex programs: randomized solutions and confidence levels. <i>Mathematical Programming</i> , 2005, 102, 25-46.	2.4	515
4	The Exact Feasibility of Randomized Solutions of Uncertain Convex Programs. <i>SIAM Journal on Optimization</i> , 2008, 19, 1211-1230.	2.0	412
5	The scenario approach for systems and control design. <i>Annual Reviews in Control</i> , 2009, 33, 149-157.	7.9	302
6	A Sampling-and-Discarding Approach to Chance-Constrained Optimization: Feasibility and Optimality. <i>Journal of Optimization Theory and Applications</i> , 2011, 148, 257-280.	1.5	279
7	Interval predictor models: Identification and reliability. <i>Automatica</i> , 2009, 45, 382-392.	5.0	103
8	A General Scenario Theory for Nonconvex Optimization and Decision Making. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 4067-4078.	5.7	95
9	Wait-and-judge scenario optimization. <i>Mathematical Programming</i> , 2018, 167, 155-189.	2.4	94
10	Guaranteed non-asymptotic confidence regions in system identification. <i>Automatica</i> , 2005, 41, 1751-1764.	5.0	84
11	Scenario-Based Economic Dispatch With Uncertain Demand Response. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 1858-1868.	9.0	65
12	Finite sample properties of system identification methods. <i>IEEE Transactions on Automatic Control</i> , 2002, 47, 1329-1334.	5.7	64
13	The Scenario Approach for Systems and Control Design. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008, 41, 381-389.	0.4	63
14	Deterministic continuous-time Virtual Reference Feedback Tuning (VRFT) with application to PID design. <i>Systems and Control Letters</i> , 2019, 127, 25-34.	2.3	55
15	Assessing the quality of identified models through the asymptotic theory "when is the result reliable?". <i>Automatica</i> , 2004, 40, 1319-1332.	5.0	51
16	Scenario Min-Max Optimization and the Risk of Empirical Costs. <i>SIAM Journal on Optimization</i> , 2015, 25, 2061-2080.	2.0	46
17	Finite-Sample System Identification: An Overview and a New Correlation Method. , 2018, 2, 61-66.		46
18	Sign-Perturbed Sums: A New System Identification Approach for Constructing Exact Non-Asymptotic Confidence Regions in Linear Regression Models. <i>IEEE Transactions on Signal Processing</i> , 2015, 63, 169-181.	5.3	45

#	ARTICLE	IF	CITATIONS
19	Scenario-Based Economic Dispatch With Tunable Risk Levels in High-Renewable Power Systems. IEEE Transactions on Power Systems, 2019, 34, 5103-5114.	6.5	43
20	FAST—Fast Algorithm for the Scenario Technique. Operations Research, 2014, 62, 662-671.	1.9	41
21	Random Convex Programs with L_1 -Regularization: Sparsity and Generalization. SIAM Journal on Control and Optimization, 2013, 51, 3532-3557.	2.1	37
22	On the choice of the event trigger in event-based estimation. , 2015, , .		31
23	Classification with guaranteed probability of error. Machine Learning, 2010, 80, 63-84.	5.4	28
24	Asymptotic properties of SPS confidence regions. Automatica, 2017, 82, 287-294.	5.0	28
25	Parameter identification for nonlinear systems: Guaranteed confidence regions through LSCR. Automatica, 2007, 43, 1418-1425.	5.0	26
26	Risk-Return Trade-off with the Scenario Approach in Practice: A Case Study in Portfolio Selection. Journal of Optimization Theory and Applications, 2012, 155, 707-722.	1.5	26
27	Advanced optimization methods for power systems. , 2014, , .		26
28	Risk and complexity in scenario optimization. Mathematical Programming, 2022, 191, 243-279.	2.4	24
29	A New Classification Algorithm With Guaranteed Sensitivity and Specificity for Medical Applications. , 2018, 2, 393-398.		21
30	On a class of interval predictor models with universal reliability. Automatica, 2019, 110, 108542.	5.0	19
31	Non-convex scenario optimization with application to system identification. , 2015, , .		18
32	The scenario approach: A tool at the service of data-driven decision making. Annual Reviews in Control, 2021, 52, 1-17.	7.9	16
33	Finite sample properties of system identification with quantized output data. , 2009, , .		15
34	Expected shortfall: Heuristics and certificates. European Journal of Operational Research, 2018, 267, 1003-1013.	5.7	15
35	The Scenario Approach Meets Uncertain Game Theory and Variational Inequalities. , 2019, , .		14
36	Non-asymptotic confidence ellipsoids for the least squares estimate. , 0, , .		12

#	ARTICLE	IF	CITATIONS
37	The risk of making decisions from data through the lens of the scenario approach. IFAC-PapersOnLine, 2021, 54, 607-612.	0.9	11
38	Learning dynamical systems in a stationary environment. , 0, , .		10
39	Sign-Perturbed Sums (SPS) with instrumental variables for the identification of ARX systems. , 2015, , .		9
40	The wait-and-judge scenario approach applied to antenna array design. Computational Management Science, 2019, 16, 481-499.	1.3	9
41	Sign-perturbed sums (SPS): A method for constructing exact finite-sample confidence regions for general linear systems. , 2012, , .		8
42	A Coverage Theory for Least Squares. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2017, 79, 1367-1389.	2.2	8
43	Kernel-based SPS. IFAC-PapersOnLine, 2018, 51, 31-36.	0.9	8
44	Finite sample properties of system identification methods. , 0, , .		7
45	Complexity-based modulation of the data-set in scenario optimization. , 2019, , .		7
46	Facing undermodelling in Sign-Perturbed-Sums system identification. Systems and Control Letters, 2021, 153, 104936.	2.3	7
47	New results on the asymptotic theory of system identification for the assessment of the quality of estimated models. , 0, , .		6
48	Ventricular defibrillation: Classification with G.E.M. and a roadmap for future investigations. , 2017, , .		5
49	UNCERTAINTY BOUNDS FOR KERNEL-BASED REGRESSION: A BAYESIAN SPS APPROACH. , 2018, , .		5
50	A Theory of the Risk for Empirical CVaR with Application to Portfolio Selection. Journal of Systems Science and Complexity, 2021, 34, 1879-1894.	2.8	5
51	Achieving optimality in adaptive control: the "bet on the best" approach. , 0, , .		4
52	Non-asymptotic quality assessment of generalised FIR models. , 0, , .		4
53	Guaranteed non-asymptotic confidence ellipsoids for FIR systems. , 2013, , .		4
54	Strong consistency of the Sign-Perturbed Sums method. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
55	Finite sample quality assessment of system identification models of irrigation channels. , 0, , .		3
56	Model quality assessment for instrumental variable methods: use of the asymptotic theory in practice. , 0, , .		3
57	Learning for Control: a Bayesian Scenario Approach. , 2019, , .		3
58	Optimal adaptive control of an LQG system. , 0, , .		2
59	Non-asymptotic uncertainty assessment of frequency responses using the LSCR approach. , 2007, , .		2
60	State estimation algorithms with guaranteed confidence intervals for first order systems. , 2011, , .		2
61	Undermodelling Detection with Sign-Perturbed Sums * *The work of A. CarÅ was supported by the European Re-search Consortium for Informatics and Mathematics (ERCIM) and the Australian Research Council (ARC) under Discovery Grant DP130104028. The work of M.C. Campi was partly supported by MIUR - Ministero dell'€Istruzione, dell'€UniversitÃ e della Ricerca and by the H & W program of the University of Brescia under the project CLAFITE. The work of B. Cs. CsÅiii was supported by the GINOP-2.3.2-15-2016-00002 grant. IFAC-PapersOnLine, 2017, 50, 2744-2749.	0.9	2
62	Consensus and Reliability: The Case of Two Binary Classifiers. IFAC-PapersOnLine, 2019, 52, 73-78.	0.9	2
63	Non-asymptotic confidence regions for model parameters in the presence of unmodelled dynamics. , 2007, , .		1
64	Prediction, filtering and smoothing using LSCR: State estimation algorithms with guaranteed confidence sets. , 2011, , .		1
65	Tuning regularization via scenario optimization. , 2017, , .		1
66	Novel Bounds on the Probability of Misclassification in Majority Voting: Leveraging the Majority Size. , 2021, 5, 1513-1518.		1
67	A study on majority-voting classifiers with guarantees on the probability of error. IFAC-PapersOnLine, 2020, 53, 1013-1018.	0.9	1
68	On the consistency of the risk evaluation in the scenario approach. , 2021, , .		1
69	State Conditional Filtering. IEEE Transactions on Automatic Control, 2022, 67, 3381-3395.	5.7	0