

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 | Risk and complexity in scenario optimization. <i>Mathematical Programming</i> , 2022, 191, 243-279. | 2.4 | 24 |
| 2 | State Conditional Filtering. <i>IEEE Transactions on Automatic Control</i> , 2022, 67, 3381-3395. | 5.7 | 0 |
| 3 | The risk of making decisions from data through the lens of the scenario approach. <i>IFAC-PapersOnLine</i> , 2021, 54, 607-612. | 0.9 | 11 |
| 4 | Facing undermodelling in Sign-Perturbed-Sums system identification. <i>Systems and Control Letters</i> , 2021, 153, 104936. | 2.3 | 7 |
| 5 | Novel Bounds on the Probability of Misclassification in Majority Voting: Leveraging the Majority Size. , 2021, 5, 1513-1518. | | 1 |
| 6 | A Theory of the Risk for Empirical CVaR with Application to Portfolio Selection. <i>Journal of Systems Science and Complexity</i> , 2021, 34, 1879-1894. | 2.8 | 5 |
| 7 | The scenario approach: A tool at the service of data-driven decision making. <i>Annual Reviews in Control</i> , 2021, 52, 1-17. | 7.9 | 16 |
| 8 | On the consistency of the risk evaluation in the scenario approach. , 2021, , . | | 1 |
| 9 | A study on majority-voting classifiers with guarantees on the probability of error. <i>IFAC-PapersOnLine</i> , 2020, 53, 1013-1018. | 0.9 | 1 |
| 10 | The wait-and-judge scenario approach applied to antenna array design. <i>Computational Management Science</i> , 2019, 16, 481-499. | 1.3 | 9 |
| 11 | On a class of interval predictor models with universal reliability. <i>Automatica</i> , 2019, 110, 108542. | 5.0 | 19 |
| 12 | Complexity-based modulation of the data-set in scenario optimization. , 2019, , . | | 7 |
| 13 | 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 |
| 14 | The Scenario Approach Meets Uncertain Game Theory and Variational Inequalities. , 2019, , . | | 14 |
| 15 | Learning for Control: a Bayesian Scenario Approach. , 2019, , . | | 3 |
| 16 | Consensus and Reliability: The Case of Two Binary Classifiers. <i>IFAC-PapersOnLine</i> , 2019, 52, 73-78. | 0.9 | 2 |
| 17 | Scenario-Based Economic Dispatch With Tunable Risk Levels in High-Renewable Power Systems. <i>IEEE Transactions on Power Systems</i> , 2019, 34, 5103-5114. | 6.5 | 43 |
| 18 | Scenario-Based Economic Dispatch With Uncertain Demand Response. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 1858-1868. | 9.0 | 65 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | A General Scenario Theory for Nonconvex Optimization and Decision Making. IEEE Transactions on Automatic Control, 2018, 63, 4067-4078. | 5.7 | 95 |
| 20 | Expected shortfall: Heuristics and certificates. European Journal of Operational Research, 2018, 267, 1003-1013. | 5.7 | 15 |
| 21 | Wait-and-judge scenario optimization. Mathematical Programming, 2018, 167, 155-189. | 2.4 | 94 |
| 22 | Finite-Sample System Identification: An Overview and a New Correlation Method. , 2018, 2, 61-66. | | 46 |
| 23 | Kernel-based SPS. IFAC-PapersOnLine, 2018, 51, 31-36. | 0.9 | 8 |
| 24 | UNCERTAINTY BOUNDS FOR KERNEL-BASED REGRESSION: A BAYESIAN SPS APPROACH. , 2018, , . | | 5 |
| 25 | A New Classification Algorithm With Guaranteed Sensitivity and Specificity for Medical Applications. , 2018, 2, 393-398. | | 21 |
| 26 | Asymptotic properties of SPS confidence regions. Automatica, 2017, 82, 287-294. | 5.0 | 28 |
| 27 | A Coverage Theory for Least Squares. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2017, 79, 1367-1389. | 2.2 | 8 |
| 28 | Undermodelling Detection with Sign-Perturbed Sums * *The work of A. CarÄ“ 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’UniversitÄ e della Ricerca and by the H & W program of the University of Brescia under the project CLAFITE. The work of B. Cs. CsÄ“ji was supported by the GINOP-2.3.2-15-2016-00002 grant. IFAC-PapersOnLine, 2017, 50, 2744-2749. | 0.9 | 2 |
| 29 | Tuning regularization via scenario optimization. , 2017, , . | | 1 |
| 30 | Ventricular defibrillation: Classification with G.E.M. and a roadmap for future investigations. , 2017, , . | | 5 |
| 31 | Non-convex scenario optimization with application to system identification. , 2015, , . | | 18 |
| 32 | Sign-Perturbed Sums (SPS) with instrumental variables for the identification of ARX systems. , 2015, , . | | 9 |
| 33 | On the choice of the event trigger in event-based estimation. , 2015, , . | | 31 |
| 34 | Sign-Perturbed Sums: A New System Identification Approach for Constructing Exact Non-Asymptotic Confidence Regions in Linear Regression Models. IEEE Transactions on Signal Processing, 2015, 63, 169-181. | 5.3 | 45 |
| 35 | Scenario Min-Max Optimization and the Risk of Empirical Costs. SIAM Journal on Optimization, 2015, 25, 2061-2080. | 2.0 | 46 |
| 36 | Advanced optimization methods for power systems. , 2014, , . | | 26 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Strong consistency of the Sign-Perturbed Sums method. , 2014, , . | | 4 |
| 38 | FASTâ€”Fast Algorithm for the Scenario Technique. Operations Research, 2014, 62, 662-671. | 1.9 | 41 |
| 39 | Random Convex Programs with L_1 -Regularization: Sparsity and Generalization. SIAM Journal on Control and Optimization, 2013, 51, 3532-3557. | 2.1 | 37 |
| 40 | Guaranteed non-asymptotic confidence ellipsoids for FIR systems. , 2013, , . | | 4 |
| 41 | Sign-perturbed sums (SPS): A method for constructing exact finite-sample confidence regions for general linear systems. , 2012, , . | | 8 |
| 42 | 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 |
| 43 | A Sampling-and-Discarding Approach to Chance-Constrained Optimization: Feasibility and Optimality. Journal of Optimization Theory and Applications, 2011, 148, 257-280. | 1.5 | 279 |
| 44 | State estimation algorithms with guaranteed confidence intervals for first order systems. , 2011, , . | | 2 |
| 45 | Prediction, filtering and smoothing using LSCR: State estimation algorithms with guaranteed confidence sets. , 2011, , . | | 1 |
| 46 | Classification with guaranteed probability of error. Machine Learning, 2010, 80, 63-84. | 5.4 | 28 |
| 47 | Finite sample properties of system identification with quantized output data. , 2009, , . | | 15 |
| 48 | The scenario approach for systems and control design. Annual Reviews in Control, 2009, 33, 149-157. | 7.9 | 302 |
| 49 | Interval predictor models: Identification and reliability. Automatica, 2009, 45, 382-392. | 5.0 | 103 |
| 50 | The Exact Feasibility of Randomized Solutions of Uncertain Convex Programs. SIAM Journal on Optimization, 2008, 19, 1211-1230. | 2.0 | 412 |
| 51 | The Scenario Approach for Systems and Control Design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 381-389. | 0.4 | 63 |
| 52 | Non-asymptotic confidence regions for model parameters in the presence of unmodelled dynamics. , 2007, , . | | 1 |
| 53 | Non-asymptotic uncertainty assessment of frequency responses using the LSCR approach. , 2007, , . | | 2 |
| 54 | Parameter identification for nonlinear systems: Guaranteed confidence regions through LSCR. Automatica, 2007, 43, 1418-1425. | 5.0 | 26 |

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|----|---|-----|-----------|
| 55 | The Scenario Approach to Robust Control Design. IEEE Transactions on Automatic Control, 2006, 51, 742-753. | 5.7 | 801 |
| 56 | Guaranteed non-asymptotic confidence regions in system identification. Automatica, 2005, 41, 1751-1764. | 5.0 | 84 |
| 57 | Uncertain convex programs: randomized solutions and confidence levels. Mathematical Programming, 2005, 102, 25-46. | 2.4 | 515 |
| 58 | Assessing the quality of identified models through the asymptotic theory—when is the result reliable?. Automatica, 2004, 40, 1319-1332. | 5.0 | 51 |
| 59 | Finite sample properties of system identification methods. IEEE Transactions on Automatic Control, 2002, 47, 1329-1334. | 5.7 | 64 |
| 60 | Virtual reference feedback tuning: a direct method for the design of feedback controllers. Automatica, 2002, 38, 1337-1346. | 5.0 | 871 |
| 61 | Optimal adaptive control of an LQG system. , 0, , . | | 2 |
| 62 | Learning dynamical systems in a stationary environment. , 0, , . | | 10 |
| 63 | Achieving optimality in adaptive control: the "bet on the best" approach. , 0, , . | | 4 |
| 64 | Finite sample properties of system identification methods. , 0, , . | | 7 |
| 65 | Non-asymptotic confidence ellipsoids for the least squares estimate. , 0, , . | | 12 |
| 66 | Non-asymptotic quality assessment of generalised FIR models. , 0, , . | | 4 |
| 67 | New results on the asymptotic theory of system identification for the assessment of the quality of estimated models. , 0, , . | | 6 |
| 68 | Finite sample quality assessment of system identification models of irrigation channels. , 0, , . | | 3 |
| 69 | Model quality assessment for instrumental variable methods: use of the asymptotic theory in practice. , 0, , . | | 3 |