

Luc Pronzato

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

2,251
citations

361413

20
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233421

45
g-index

91
all docs

91
docs citations

91
times ranked

1435
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimum-energy measures for singular kernels. Journal of Computational and Applied Mathematics, 2021, 382, 113089.	2.0	5
2	Removing inessential points in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1496" altimg="si9.svg"} \rangle \langle \text{mml:mi} \rangle c \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1501" altimg="si663.svg"} \rangle \langle \text{mml:mi} \rangle A \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -optimal design. Journal of Statistical Planning and Inference, 2021, 213, 233-252.	0.6	0
3	Sequential online subsampling for thinning experimental designs. Journal of Statistical Planning and Inference, 2021, 212, 169-193.	0.6	5
4	Incremental Space-Filling Design Based on Coverings and Spacings: Improving Upon Low Discrepancy Sequences. Journal of Statistical Theory and Practice, 2021, 15, 1.	0.5	3
5	Bayesian Quadrature, Energy Minimization, and Space-Filling Design. SIAM-ASA Journal on Uncertainty Quantification, 2020, 8, 959-1011.	2.0	19
6	Bregman divergences based on optimal design criteria and simplicial measures of dispersion. Statistical Papers, 2019, 60, 545-564.	1.2	2
7	Measures Minimizing Regularized Dispersion. Journal of Scientific Computing, 2019, 78, 1550-1570.	2.3	5
8	On the elimination of inessential points in the smallest enclosing ball problem. Optimization Methods and Software, 2019, 34, 225-247.	2.4	3
9	Sensitivity analysis via Karhunen-Loève expansion of a random field model: Estimation of Sobol' indices and experimental design. Reliability Engineering and System Safety, 2019, 187, 93-109.	8.9	12
10	Simplicial variances, potentials and Mahalanobis distances. Journal of Multivariate Analysis, 2018, 168, 276-289.	1.0	9
11	Convex relaxation for IMSE optimal design in random-field models. Computational Statistics and Data Analysis, 2017, 113, 375-394.	1.2	11
12	Information-regret compromise in covariate-adaptive treatment allocation. Annals of Statistics, 2017, 45, .	2.6	7
13	Bayesian Local Kriging. Technometrics, 2017, 59, 293-304.	1.9	8
14	Extended generalised variances, with applications. Bernoulli, 2017, 23, .	1.3	5
15	Extremal measures maximizing functionals based on simplicial volumes. Statistical Papers, 2016, 57, 1059-1075.	1.2	3
16	Efficient prediction designs for random fields. Applied Stochastic Models in Business and Industry, 2015, 31, 178-194.	1.5	8
17	Spectral Approximation of the IMSE Criterion for Optimal Designs in Kernel-Based Interpolation Models. SIAM-ASA Journal on Uncertainty Quantification, 2014, 2, 805-825.	2.0	14
18	Algorithmic construction of optimal designs on compact sets for concave and differentiable criteria. Journal of Statistical Planning and Inference, 2014, 154, 141-155.	0.6	13

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19	An asymptotically optimal gradient algorithm for quadratic optimization with low computational cost. <i>Optimization Letters</i> , 2013, 7, 1047-1059.	1.6	9
20	Estimation of Spectral Bounds in Gradient Algorithms. <i>Acta Applicandae Mathematicae</i> , 2013, 127, 117-136.	1.0	2
21	A delimitation of the support of optimal designs for Kiefer's class of criteria. <i>Statistics and Probability Letters</i> , 2013, 83, 2721-2728.	0.7	14
22	Asymptotic Properties of the LS Estimator. <i>Lecture Notes in Statistics</i> , 2013, , 21-77.	0.2	1
23	Criteria Based on the Small-Sample Precision of the LS Estimator. <i>Lecture Notes in Statistics</i> , 2013, , 167-186.	0.2	1
24	Local Optimality Criteria Based on Asymptotic Normality. <i>Lecture Notes in Statistics</i> , 2013, , 105-165.	0.2	0
25	Nonlocal Optimum Design. <i>Lecture Notes in Statistics</i> , 2013, , 235-275.	0.2	0
26	Design of computer experiments: space filling and beyond. <i>Statistics and Computing</i> , 2012, 22, 681-701.	1.5	256
27	Beyond space-filling: An illustrative case. <i>Procedia Environmental Sciences</i> , 2011, 7, 14-19.	1.4	3
28	Gradient algorithms for quadratic optimization with fast convergence rates. <i>Computational Optimization and Applications</i> , 2011, 50, 597-617.	1.6	9
29	One-step ahead adaptive D-optimal design on a finite design space is asymptotically optimal. <i>Metrika</i> , 2010, 71, 219-238.	0.8	21
30	Penalized optimal designs for dose-finding. <i>Journal of Statistical Planning and Inference</i> , 2010, 140, 283-296.	0.6	25
31	Asymptotic Properties of Adaptive Penalized Optimal Designs over a Finite Space. <i>Contributions To Statistics</i> , 2010, , 165-172.	0.2	0
32	Asymptotic properties of nonlinear estimates in stochastic models with finite design space. <i>Statistics and Probability Letters</i> , 2009, 79, 2307-2313.	0.7	12
33	On the regularization of singular c-optimal designs. <i>Mathematica Slovaca</i> , 2009, 59, 611-626.	0.6	7
34	Asymptotic Properties of Nonlinear Least Squares Estimates in Stochastic Regression Models Over a Finite Design Space. Application to Self-Tuning Optimisation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009, 42, 156-161.	0.4	2
35	Studying Convergence of Gradient Algorithms Via Optimal Experimental Design Theory. <i>Springer Optimization and Its Applications</i> , 2009, , 13-37.	0.9	3
36	A Dynamical-System Analysis of the Optimum s-Gradient Algorithm. <i>Springer Optimization and Its Applications</i> , 2009, , 39-80.	0.9	7

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37	Asymptotic Normality of Nonlinear Least Squares under Singular Experimental Designs. Springer Optimization and Its Applications, 2009, , 167-191.	0.9	3
38	Optimal experimental design and some related control problems. Automatica, 2008, 44, 303-325.	5.0	187
39	Design of experiments for response diversity. Journal of Physics: Conference Series, 2008, 135, 012017.	0.4	6
40	A class of RÄ©nyi information estimators for multidimensional densities. Annals of Statistics, 2008, 36, .	2.6	173
41	Improvements on removing nonoptimal support points in -optimum design algorithms. Statistics and Probability Letters, 2007, 77, 90-94.	0.7	48
42	Quantile and Probability-level Criteria for Nonlinear Experimental Design. , 2007, , 157-164.		4
43	On the sequential construction of optimum bounded designs. Journal of Statistical Planning and Inference, 2006, 136, 2783-2804.	0.6	9
44	On the irregular behavior of LS estimators for asymptotically singular designs. Statistics and Probability Letters, 2006, 76, 1089-1096.	0.7	7
45	Asymptotic behaviour of a family of gradient algorithms in \hat{a}, d and Hilbert spaces. Mathematical Programming, 2006, 107, 409-438.	2.4	10
46	A Minimum-Entropy Procedure for Robust Motion Estimation. , 2006, , .		12
47	Kantorovich-type inequalities for operators via D-optimal design theory. Linear Algebra and Its Applications, 2005, 410, 160-169.	0.9	3
48	Minimum-entropy estimation in semi-parametric models. Signal Processing, 2005, 85, 937-949.	3.7	35
49	A minimax equivalence theorem for optimum bounded design measures. Statistics and Probability Letters, 2004, 68, 325-331.	0.7	8
50	Simultaneous Choice of Design and Estimator in Nonlinear Regression with Parameterized Variance. Contributions To Statistics, 2004, , 117-124.	0.2	2
51	Minimum Entropy Estimation in Semi-Parametric Models: a Candidate for Adaptive Estimation?. Contributions To Statistics, 2004, , 125-132.	0.2	5
52	Removing non-optimal support points in D-optimum design algorithms. Statistics and Probability Letters, 2003, 63, 223-228.	0.7	22
53	An Introduction to Dynamical Search. Nonconvex Optimization and Its Applications, 2002, , 115-150.	0.1	5
54	Sequential experimental design and response optimisation. Statistical Methods and Applications, 2002, 11, 277-292.	1.2	5

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55	Information matrices with random regressors. Application to experimental design. Journal of Statistical Planning and Inference, 2002, 108, 189-200.	0.6	19
56	Optimal and asymptotically optimal decision rules for sequential screening and resource allocation. IEEE Transactions on Automatic Control, 2001, 46, 687-697.	5.7	10
57	A minimum-entropy estimator for regression problems with unknown distribution of observation errors. AIP Conference Proceedings, 2001, , .	0.4	13
58	Using densities of estimators to compare pharmacokinetic experiments. Computers in Biology and Medicine, 2001, 31, 179-195.	7.0	3
59	Renormalised Steepest Descent in Hilbert Space Converges to a Two-Point Attractor. Acta Applicandae Mathematicae, 2001, 67, 1-18.	1.0	8
60	Eliminating Suboptimal Local Minimizers in Nonlinear Parameter Estimation. Technometrics, 2001, 43, 434-442.	1.9	12
61	Adaptive optimization and D-optimum experimental design. Annals of Statistics, 2000, 28, 1743.	2.6	22
62	Nonlinear prediction by kriging, with application to noise cancellation. Signal Processing, 2000, 80, 553-566.	3.7	13
63	Robust Identification and Control Based on Ellipsoidal Parametric Uncertainty Descriptions. European Journal of Control, 2000, 6, 245-255.	2.6	17
64	Adaptive control for sequential design. Discussiones Mathematicae Probability and Statistics, 2000, 20, 97.	0.1	4
65	On a property of the expected value of a determinant. Statistics and Probability Letters, 1998, 39, 161-165.	0.7	7
66	A generalized golden-section algorithm for line search. IMA Journal of Mathematical Control and Information, 1998, 15, 185-214.	1.7	8
67	Sequential Design and Active Control. Lecture Notes-monograph Series / Institute of Mathematical Statistics, 1998, , 138-151.	1.0	8
68	Stochastic Analysis of Convergence via Dynamic Representation for a Class of Line-search Algorithms. Combinatorics Probability and Computing, 1997, 6, 205-229.	1.3	3
69	Dual Control of Linearly Parameterised Models via Prediction of Posterior Densities. European Journal of Control, 1996, 2, 135-143.	2.6	17
70	An actively adaptive control policy for linear models. IEEE Transactions on Automatic Control, 1996, 41, 855-858.	5.7	24
71	Identifiability and distinguishability concepts in electrochemistry. Automatica, 1996, 32, 973-984.	5.0	33
72	On the identifiability and distinguishability of nonlinear parametric models. Mathematics and Computers in Simulation, 1996, 42, 125-134.	4.4	117

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73	A Dirac-function method for densities of nonlinear statistics and for marginal densities in nonlinear regression. <i>Statistics and Probability Letters</i> , 1996, 26, 159-167.	0.7	8
74	Modeling Transient Tracing in Plug-Flow Reactors: A Case Study. <i>Industrial & Engineering Chemistry Research</i> , 1995, 34, 483-487.	3.7	12
75	Comments about the coincident bit counting (CBC) criterion for image registration. <i>IEEE Transactions on Medical Imaging</i> , 1994, 13, 565-566.	8.9	8
76	Minimum-volume ellipsoids containing compact sets. <i>Automatica</i> , 1994, 30, 1731-1739.	5.0	27
77	Optimal experimental design and therapeutic drug monitoring. <i>International Journal of Bio-medical Computing</i> , 1994, 36, 95-101.	0.5	10
78	Minimal volume ellipsoids. <i>International Journal of Adaptive Control and Signal Processing</i> , 1994, 8, 15-30.	4.1	37
79	Densities of Nonlinear Functions of the Nonlinear Least-Squares Estimator. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1994, 27, 157-162.	0.4	2
80	Bias Correction in Nonlinear Regression via Two-Stages Least-Squares Estimation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1994, 27, 137-142.	0.4	2
81	Experimental design for estimating the optimum point in a response surface. <i>Acta Applicandae Mathematicae</i> , 1993, 33, 45-68.	1.0	15
82	Nonlinear experimental design based on the distribution of estimators. <i>Journal of Statistical Planning and Inference</i> , 1992, 33, 385-402.	0.6	26
83	Experiment design for bounded-error models. <i>Mathematics and Computers in Simulation</i> , 1990, 32, 571-584.	4.4	11
84	Qualitative and quantitative experiment design for phenomenological models – A survey. <i>Automatica</i> , 1990, 26, 195-213.	5.0	275
85	Experiment design in a bounded-error context: Comparison with D-optimality. <i>Automatica</i> , 1989, 25, 383-391.	5.0	39
86	Robust experiment design via maximin optimization. <i>Mathematical Biosciences</i> , 1988, 89, 161-176.	1.9	100
87	A distribution-free criterion for robust identification, with applications in system modelling and image processing. <i>Automatica</i> , 1986, 22, 105-109.	5.0	22
88	Robust experiment design via stochastic approximation. <i>Mathematical Biosciences</i> , 1985, 75, 103-120.	1.9	141
89	A general-purpose global optimizer: Implementation and applications. <i>Mathematics and Computers in Simulation</i> , 1984, 26, 412-422.	4.4	114
90	Entropy minimization for parameter estimation problems with unknown distribution of the output noise. , 0, , .		10