David Ginsbourger

List of Publications by Year
in descending order

49 papers	2,212 citations	361045 20 h-index	233125 45 g-index
57 all docs	57 docs citations	57 times ranked	1702 citing authors

#	Article	IF	Citations
1	DiceKriging,DiceOptim: TwoRPackages for the Analysis of Computer Experiments by Kriging-Based Metamodeling and Optimization. Journal of Statistical Software, 2012, 51, .	1.8	358
2	A benchmark of kriging-based infill criteria for noisy optimization. Structural and Multidisciplinary Optimization, 2013, 48, 607-626.	1.7	207
3	Sequential design of computer experiments for the estimation of a probability of failure. Statistics and Computing, 2012, 22, 773-793.	0.8	206
4	Adaptive Designs of Experiments for Accurate Approximation of a Target Region. Journal of Mechanical Design, Transactions of the ASME, 2010, 132, .	1.7	194
5	Kriging Is Well-Suited to Parallelize Optimization. Adaptation, Learning, and Optimization, 2010, , 131-162.	0.5	182
6	Quantile-Based Optimization of Noisy Computer Experiments With Tunable Precision. Technometrics, 2013, 55, 2-13.	1.3	120
7	Fast Parallel Kriging-Based Stepwise Uncertainty Reduction With Application to the Identification of an Excursion Set. Technometrics, 2014, 56, 455-465.	1.3	84
8	On uncertainty quantification in hydrogeology and hydrogeophysics. Advances in Water Resources, 2017, 110, 166-181.	1.7	82
9	Fast Computation of the Multi-Points Expected Improvement with Applications in Batch Selection. Lecture Notes in Computer Science, 2013, , 59-69.	1.0	60
10	Quantifying uncertainty on Pareto fronts with Gaussian process conditional simulations. European Journal of Operational Research, 2015, 243, 386-394.	3.5	38
11	Changes in the odds of extreme events in the Atlantic basin depending on the position of the extratropical jet. Geophysical Research Letters, 2012, 39, .	1.5	37
12	Additive Covariance kernels for high-dimensional Gaussian Process modeling. Annales De La FacultÃ© Des Sciences De Toulouse, 2012, 21, 481-499.	0.3	36
13	Expected Improvements for the Asynchronous Parallel Global Optimization of Expensive Functions: Potentials and Challenges. Lecture Notes in Computer Science, 2012, , 413-418.	1.0	35
14	ANOVA kernels and RKHS of zero mean functions for model-based sensitivity analysis. Journal of Multivariate Analysis, 2013, 115, 57-67.	0.5	34
15	Noisy kriging-based optimization methods: A unified implementation within the DiceOptim package. Computational Statistics and Data Analysis, 2014, 71, 1035-1053.	0.7	33
16	Distance-based kriging relying on proxy simulations for inverse conditioning. Advances in Water Resources, 2013, 52, 275-291.	1.7	31
17	Discrete mixtures of kernels for Krigingâ€based optimization. Quality and Reliability Engineering International, 2008, 24, 681-691.	1.4	27
18	Quantifying Uncertainties on Excursion Sets Under a Gaussian Random Field Prior. SIAM-ASA Journal on Uncertainty Quantification, 2016, 4, 850-874.	1.1	27

#	Article	IF	Citations
19	Functional error modeling for uncertainty quantification in hydrogeology. Water Resources Research, 2015, 51, 1050-1068.	1.7	25
20	KrigInv: An efficient and user-friendly implementation of batch-sequential inversion strategies based on kriging. Computational Statistics and Data Analysis, 2014, 71, 1021-1034.	0.7	24
21	A supermartingale approach to Gaussian process based sequential design of experiments. Bernoulli, 2019, 25, .	0.7	23
22	A note on the choice and the estimation of Kriging models for the analysis of deterministic computer experiments. Applied Stochastic Models in Business and Industry, 2009, 25, 115-131.	0.9	22
23	A Nonstationary Space-Time Gaussian Process Model for Partially Converged Simulations. SIAM-ASA Journal on Uncertainty Quantification, 2013, 1, 57-78.	1.1	22
24	Improving accuracy of failure probability estimates with separable Monte Carlo. International Journal of Reliability and Safety, 2010, 4, 393.	0.2	21
25	On the choice of the low-dimensional domain for global optimization via random embeddings. Journal of Global Optimization, 2020, 76, 69-90.	1.1	20
26	A Poisson regression approach to model monthly hail occurrence in Northern Switzerland using large-scale environmental variables. Atmospheric Research, 2018, 203, 261-274.	1.8	18
27	Towards Gaussian Process-based Optimization with Finite Time Horizon. Contributions To Statistics, 2010, , 89-96.	0.2	18
28	Estimating and Quantifying Uncertainties on Level Sets Using the Vorobâ€™ev Expectation and Deviation with Gaussian Process Models. Contributions To Statistics, 2013, , 35-43.	0.2	17
29	Fast Update of Conditional Simulation Ensembles. Mathematical Geosciences, 2015, 47, 771-789.	1.4	16
30	Contaminant source localization via Bayesian global optimization. Hydrology and Earth System Sciences, 2019, 23, 351-369.	1.9	15
31	Bayesian Adaptive Reconstruction of Profile Optima and Optimizers. SIAM-ASA Journal on Uncertainty Quantification, 2014, 2, 490-510.	1.1	14
32	Adaptive Design of Experiments for Conservative Estimation of Excursion Sets. Technometrics, 2021, 63, 13-26.	1.3	14
33	Differentiating the Multipoint Expected Improvement for Optimal Batch Design. Lecture Notes in Computer Science, 2015, , 37-48.	1.0	14
34	A Warped Kernel Improving Robustness in Bayesian Optimization Via Random Embeddings. Lecture Notes in Computer Science, 2015, , 281-286.	1.0	13
35	Estimating Orthant Probabilities of High-Dimensional Gaussian Vectors with An Application to Set Estimation. Journal of Computational and Graphical Statistics, 2018, 27, 255-267.	0.9	12
36	Warped Gaussian Processes and Derivative-Based Sequential Designs for Functions with Heterogeneous Variations. SIAM-ASA Journal on Uncertainty Quantification, 2018, 6, 991-1018.	1.1	12

#	Article	IF	Citations
37	Learning excursion sets of vector-valued Gaussian random fields for autonomous ocean sampling. Annals of Applied Statistics, 2021, 15, .	0.5	10
38	On degeneracy and invariances of random fields paths with applications in Gaussian process modelling. Journal of Statistical Planning and Inference, 2016, 170, 117-128.	0.4	8
39	High-Dimensional Model-Based Optimization Based on Noisy Evaluations of Computer Games. Lecture Notes in Computer Science, 2012, , 145-159.	1.0	8
40	Area-covering postprocessing of ensemble precipitation forecasts using topographical and seasonal conditions. Stochastic Environmental Research and Risk Assessment, 2021, 35, 215-230.	1.9	7
41	Argumentwise invariant kernels for the approximation of invariant functions. Annales De La FacultÃ© Des Sciences De Toulouse, 2012, 21, 501-527.	0.3	7
42	Global Optimization with Sparse and Local Gaussian Process Models. Lecture Notes in Computer Science, 2015, , 185-196.	1.0	4
43	Profile Extrema for Visualizing and Quantifying Uncertainties on Excursion Regions: Application to Coastal Flooding. Technometrics, 2019, 61, 474-493.	1.3	4
44	Modeling Nonstationary Extreme Dependence With Stationary Max-Stable Processes and Multidimensional Scaling. Journal of Computational and Graphical Statistics, 2020, , 1-11.	0.9	4
45	Using the Efficient Global Optimization Algorithm to Assist Nuclear Criticality Safety Assessment. Nuclear Science and Engineering, 2013, 175, 1-18.	0.5	3
46	Design of Computer Experiments Using Competing Distances Between Set-Valued Inputs. Contributions To Statistics, 2016, , 123-131.	0.2	2
47	On ANOVA Decompositions of Kernels and Gaussian Random Field Paths. Springer Proceedings in Mathematics and Statistics, 2016, , 315-330.	0.1	1
48	Comment: Some Enhancements Over the Augmented Lagrangian Approach. Technometrics, 2016, 58, 17-21.	1.3	1
49	Non-parametric warping via local scale estimation for non-stationary Gaussian process modelling. , 2017, , .		0