Grace Wahba

List of Publications by Year
in descending order

76	16,797	101384 36	98622 67
papers	citations	h-index	g-index

86	86	86	9853
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Statistical tests and identifiability conditions for pooling and analyzing multisite datasets. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1481-1486.	3.3	26
2	Using distance covariance for improved variable selection with application to learning genetic risk models. Statistics in Medicine, 2015, 34, 1708-1720.	0.8	25
3	Group Variable Selection via Convex Log-Exp-Sum Penalty with Application to a Breast Cancer Survivor Study. Biometrics, 2015, 71, 53-62.	0.8	7
4	Backward multiple imputation estimation of the conditional lifetime expectancy function with application to censored human longevity data. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12069-12074.	3.3	0
5	Multivariate Bernoulli distribution. Bernoulli, 2013, 19, .	0.7	109
6	Using distance correlation and SS-ANOVA to assess associations of familial relationships, lifestyle factors, diseases, and mortality. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20352-20357.	3.3	23
7	Encoding dissimilarity data for statistical model building. Journal of Statistical Planning and Inference, 2010, 140, 3580-3596.	0.4	1
8	Examining the relative influence of familial, genetic, and environmental covariate information in flexible risk models. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8128-8133.	3.3	17
9	23 Statistical Learning in Medical Data Analysis. Handbook of Statistics, 2007, 27, 679-711.	0.4	2
10	Framework for kernel regularization with application to protein clustering. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12332-12337.	3.3	36
11	Doubly penalized likelihood estimator in heteroscedastic regression. Statistics and Probability Letters, 2004, 69, 11-20.	0.4	20
12	Multicategory Support Vector Machines. Journal of the American Statistical Association, 2004, 99, 67-81.	1.8	480
13	Variable Selection and Model Building via Likelihood Basis Pursuit. Journal of the American Statistical Association, 2004, 99, 659-672.	1.8	46
14	Cloud Classification of Satellite Radiance Data by Multicategory Support Vector Machines. Journal of Atmospheric and Oceanic Technology, 2004, 21, 159-169.	0.5	61
15	An introduction to smoothing spline ANOVA models in RKHS, with examples in geographical data, medicine, atmospheric sciences and machine learning. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 531-536.	0.4	3
16	An introduction to reproducing kernel hilbert spaces and why they are so useful. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 525-528.	0.4	7
17	Optimal Properties and Adaptive Tuning of Standard and Nonstandard Support Vector Machines. Lecture Notes in Statistics, 2003, , 129-147.	0.1	4
18	Soft and hard classification by reproducing kernel Hilbert space methods. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16524-16530.	3.3	69

#	Article	IF	Citations
19	Support Vector Machines for Classification in Nonstandard Situations. Machine Learning, 2002, 46, 191-202.	3.4	233
20	Statistical Properties and Adaptive Tuning of Support Vector Machines. Machine Learning, 2002, 48, 115-136.	3.4	30
21	Smoothing Spline ANOVA for Multivariate Bernoulli Observations With Application to Ophthalmology Data. Journal of the American Statistical Association, 2001, 96, 127-160.	1.8	33
22	Smoothing spline ANOVA models for large data sets with Bernoulli observations and the randomized GACV. Annals of Statistics, 2000, 28, .	1.4	31
23	Hybrid Adaptive Splines. Journal of the American Statistical Association, 1997, 92, 107-116.	1.8	124
24	USING SMOOTHING SPLINE ANOVA TO EXAMINE THE RELATION OF RISK FACTORS TO THE INCIDENCE AND PROGRESSION OF DIABETIC RETINOPATHY. Statistics in Medicine, 1997, 16, 1357-1376.	0.8	21
25	Adaptive Tuning of Numerical Weather Prediction Models: Randomized GCV in Three- and Four-Dimensional Data Assimilation. Monthly Weather Review, 1995, 123, 3358-3370.	0.5	71
26	Smoothing spline ANOVA for exponential families, with application to the Wisconsin Epidemiological Study of Diabetic Retinopathy : the 1994 Neyman Memorial Lecture. Annals of Statistics, 1995, 23, 1865.	1.4	159
27	Simulation studies of smoothing parameter estimates and bayesian confidence intervals in bernoulli ss anova models. Communications in Statistics Part B: Simulation and Computation, 1995, 24, 1037-1059.	0.6	6
28	Bootstrap confidence intervals for smoothing splines and their comparison to bayesian confidence intervals. Journal of Statistical Computation and Simulation, 1995, 51, 263-279.	0.7	51
29	Getting better contour plots with S and GCVPACK. Computational Statistics and Data Analysis, 1993, 15, 329-342.	0.7	2
30	Smoothing Spline ANOVA with Component-Wise Bayesian "Confidence Intervals". Journal of Computational and Graphical Statistics, 1993, 2, 97.	0.9	35
31	Smoothing Spline ANOVA with Component-Wise Bayesian â€œConfidence Intervalsâ€. Journal of Computational and Graphical Statistics, 1993, 2, 97-117.	0.9	60
32	Semiparametric Analysis of Variance with Tensor Product Thin Plate Splines. Journal of the Royal Statistical Society Series B: Methodological, 1993, 55, 353-368.	0.8	26
33	Minimizing GCV/GML Scores with Multiple Smoothing Parameters via the Newton Method. SIAM Journal on Scientific and Statistical Computing, 1991, 12, 383-398.	1.5	127
34	Multivariate Model Building With Additive Interaction and Tensor Product Thin Plate Splines. , 1991, , 491-504.		2
35	When is the optimal regularization parameter insensitive to the choice of the loss function?. Communications in Statistics - Theory and Methods, 1990, 19, 1685-1700.	0.6	49
36	The Computation of Generalized Cross-Validation Functions Through Householder Tridiagonalization with Applications to the Fitting of Interaction Spline Models. SIAM Journal on Matrix Analysis and Applications, 1989, 10, 457-480.	0.7	73

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37	Rates of convergence of some estimators for a semiparametric model. Communications in Statistics Part B: Simulation and Computation, 1988, 17, 1117-1133.	0.6	3
38	Testing the (Parametric) Null Model Hypothesis in (Semiparametric) Partial and Generalized Spline Models. Annals of Statistics, 1988, 16, 113.	1.4	109
39	Inequality-Constrained Multivariate Smoothing Splines with Application to the Estimation of Posterior Probabilities. Journal of the American Statistical Association, 1987, 82, 239-248.	1.8	72
40	Gcvpack â€" routines for generalized cross validation. Communications in Statistics Part B: Simulation and Computation, 1987, 16, 263-297.	0.6	93
41	THREE TOPICS IN ILL-POSED PROBLEMS. , 1987, , 37-51.		27
42	Partial Spline Models for the Inclusion of Tropopause and Frontal Boundary Information in Otherwise Smooth Two- and Three-Dimensional Objective Analysis. Journal of Atmospheric and Oceanic Technology, 1986, 3, 714-725.	0.5	50
43	A cross validated bayesian retrieval algorithm for nonlinear remote sensing experiments. Journal of Computational Physics, 1985, 59, 441-455.	1.9	63
44	Cross-Validated Spline Methods for the Estimation of Three-Dimensional Tumor Size Distributions from Observations on Two-Dimensional Cross Sections. Journal of the American Statistical Association, 1984, 79, 832-846.	1.8	54
45	Multivariate thin plate spline estimates for the posterior probabilities in the classification problem. Communications in Statistics - Theory and Methods, 1983, 12, 1449-1479.	0.6	8
46	Bayesian â€œConfidence Intervalsâ€•for the Crossâ€Validated Smoothing Spline. Journal of the Royal Statistical Society Series B: Methodological, 1983, 45, 133-150.	0.8	161
47	On the Estimation of Functions of Several Variables from Aggregated Data. SIAM Journal on Mathematical Analysis, 1982, 13, 134-152.	0.9	35
48	Vector Splines on the Sphere, with Application to the Estimation of Vorticity and Divergence from Discrete, Noisy Data. , 1982, , 407-429.		23
49	CONSTRAINED REGULARIZATION FOR ILL POSED LINEAR OPERATOR EQUATIONS, WITH APPLICATIONS IN METEOROLOGY AND MEDICINE11This work was supported by the Office of Naval Research under Contract No. N00014-77-C-0675.. , 1982, , 383-418.		70
50	Spline Interpolation and Smoothing on the Sphere. SIAM Journal on Scientific and Statistical Computing, 1981, 2, 5-16.	1.5	293
51	Numerical experiments with the thin plate histospline. Communications in Statistics - Theory and Methods, 1981, 10, 2475-2514.	0.6	21
52	A New Approach to the Numerical Evaluation of the Inverse Radon Transform with Discrete, Noisy Data. Lecture Notes in Medical Informatics, 1981, , 189-203.	0.1	1
53	Automatic Smoothing of the Log Periodogram. Journal of the American Statistical Association, 1980, 75, 122-132.	1.8	180
54	Some New Mathematical Methods for Variational Objective Analysis Using Splines and Cross Validation. Monthly Weather Review, 1980, 108, 1122-1143.	0.5	488

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55	Determination of an optimal mesh for a collocation-projection method for solving two-point boundary value problems. Journal of Approximation Theory, 1979, 25, 38-49.	0.5	2
56	Generalized Cross-Validation as a Method for Choosing a Good Ridge Parameter. Technometrics, 1979, 21, 215-223.	1.3	2,987
57	Smoothing noisy data with spline functions. Numerische Mathematik, 1978, 31, 377-403.	0.9	2,595
58	Improper Priors, Spline Smoothing and the Problem of Guarding Against Model Errors in Regression. Journal of the Royal Statistical Society Series B: Methodological, 1978, 40, 364-372.	0.8	160
59	Practical Approximate Solutions to Linear Operator Equations When the Data are Noisy. SIAM Journal on Numerical Analysis, 1977, 14, 651-667.	1.1	665
60	Optimal Smoothing of Density Estimates. , 1977, , 423-458.		31
61	On the optimal choice of nodes in the collocation-projection method for solving linear operator equations. Journal of Approximation Theory, 1976, 16, 175-186.	0.5	4
62	Smoothing noisy data with spline functions. Numerische Mathematik, 1975, 24, 383-393.	0.9	486
63	Convergence rates of approximate least squares solutions of linear integral and operator equations of the first kind. Mathematics of Computation, 1974, 28, 69-80.	1.1	80
64	Generalized Inverses in Reproducing Kernel Spaces: An Approach to Regularization of Linear Operator Equations. SIAM Journal on Mathematical Analysis, 1974, 5, 974-987.	0.9	103
65	Convergence rates of certain approximate solutions to Fredholm integral equations of the first kind. Journal of Approximation Theory, 1973, 7, 167-185.	0.5	61
66	A class of approximate solutions to linear operator equations. Journal of Approximation Theory, 1973, 9, 61-77.	0.5	32
67	On the Minimization of a Quadratic Functional Subject to a Continuous Family of Linear Inequality Constraints. SIAM Journal on Control and Optimization, 1973, 11, 64-79.	1.6	9
68	Some Tests of Independence for Stationary Multivariate Time Series. Journal of the Royal Statistical Society Series B: Methodological, 1971, 33, 153-166.	0.8	8
69	Some results on Tchebycheffian spline functions. Journal of Mathematical Analysis and Applications, 1971, 33, 82-95.	0.5	988
70	A Correspondence Between Bayesian Estimation on Stochastic Processes and Smoothing by Splines. Annals of Mathematical Statistics, 1970, 41, 495-502.	0.5	710
71	On the Distribution of Some Statistics Useful in the Analysis of Jointly Stationary Time Series. Annals of Mathematical Statistics, 1968, 39, 1849-1862.	0.5	45
72	Generalized Cross-Validation as a Method for Choosing a Good Ridge Parameter. , 0, .		446

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73	Automatic Smoothing of the Log Periodogram. , 0, .		31
74	Cross-Validated Spline Methods for the Estimation of Three-Dimensional Tumor Size Distributions from Observations on Two-Dimensional Cross Sections. , 0, .		19
75	Inequality-Constrained Multivariate Smoothing Splines with Application to the Estimation of Posterior Probabilities. , 0, .		16
76	Hybrid Adaptive Splines. , 0, .		40