

Carl De Boor

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

3,695
citations

394421

19
h-index

501196

28
g-index

30
all docs

30
docs citations

30
times ranked

1593
citing authors

#	ARTICLE	IF	CITATIONS
1	On calculating with B-splines. <i>Journal of Approximation Theory</i> , 1972, 6, 50-62.	0.8	1,443
2	Collocation at Gaussian Points. <i>SIAM Journal on Numerical Analysis</i> , 1973, 10, 582-606.	2.3	542
3	Approximation from Shift-Invariant Subspaces of $L^2(\mathbb{R}^d)$. <i>Transactions of the American Mathematical Society</i> , 1994, 341, 787.	0.9	234
4	Bicubic Spline Interpolation. <i>Journal of Mathematics and Physics</i> , 1962, 41, 212-218.	0.4	223
5	Package for Calculating with B-Splines. <i>SIAM Journal on Numerical Analysis</i> , 1977, 14, 441-472.	2.3	174
6	On multivariate polynomial interpolation. <i>Constructive Approximation</i> , 1990, 6, 287-302.	3.0	170
7	Good approximation by splines with variable knots. II. <i>Lecture Notes in Mathematics</i> , 1974, , 12-20.	0.2	120
8	On uniform approximation by splines. <i>Journal of Approximation Theory</i> , 1968, 1, 219-235.	0.8	116
9	Computational aspects of polynomial interpolation in several variables. <i>Mathematics of Computation</i> , 1992, 58, 705-705.	2.1	99
10	Fourier analysis of the approximation power of principal shift-invariant spaces. <i>Constructive Approximation</i> , 1992, 8, 427-462.	3.0	78
11	The least solution for the polynomial interpolation problem. <i>Mathematische Zeitschrift</i> , 1992, 210, 347-378.	0.9	77
12	Good Approximation by Splines with Variable Knots. <i>International Series of Numerical Mathematics</i> , 1973, , 57-72.	1.1	64
13	The polynomials in the linear span of integer translates of a compactly supported function. <i>Constructive Approximation</i> , 1987, 3, 199-208.	3.0	61
14	On polynomial ideals of finite codimension with applications to box spline theory. <i>Journal of Mathematical Analysis and Applications</i> , 1991, 158, 168-193.	1.0	41
15	Computational Aspects of Polynomial Interpolation in Several Variables. <i>Mathematics of Computation</i> , 1992, 58, 705.	2.1	41
16	On bounding spline interpolation. <i>Journal of Approximation Theory</i> , 1975, 14, 191-203.	0.8	36
17	Collocation approximation to eigenvalues of an ordinary differential equation: the principle of the thing. <i>Mathematics of Computation</i> , 1980, 35, 679-679.	2.1	31
18	CALCULATION OF THE SMOOTHING SPLINE WITH WEIGHTED ROUGHNESS MEASURE. <i>Mathematical Models and Methods in Applied Sciences</i> , 2001, 11, 33-41.	3.3	26

#	ARTICLE	IF	CITATIONS
19	The Exponentials in the Span of the Multiinteger Translates of a Compactly Supported Function; Quasiinterpolation and Approximation Order. Journal of the London Mathematical Society, 1992, s2-45, 519-535.	1.0	20
20	Multivariate polynomial interpolation: conjectures concerning GC-sets. Numerical Algorithms, 2007, 45, 113-125.	1.9	17
21	On Calculating with B-Splines II. Integration. , 1976, , 123-146.		15
22	The B-spline recurrence relations of Chakalov and of Popoviciu. Journal of Approximation Theory, 2003, 124, 115-123.	0.8	15
23	Collocation approximation to eigenvalues of an ordinary differential equation: numerical illustrations. Mathematics of Computation, 1981, 36, 1-1.	2.1	11
24	Computational aspects of multivariate polynomial interpolation: Indexing the coefficients. Advances in Computational Mathematics, 2000, 12, 289-301.	1.6	10
25	Local piecewise polynomial projection methods for an O.D.E. which give high-order convergence at knots. Mathematics of Computation, 1981, 36, 21-21.	2.1	9
26	Comments on: "A comparison of global methods for linear two-point boundary value problems" (Math. Comp. {f 29} (1975), no. 132, 1007-1019) by R. D. Russell and J. M. Varah. Mathematics of Computation, 1977, 31, 916-916.	2.1	6
27	Multivariate approximation: theory and applications. An overview. Numerical Algorithms, 2008, 48, 1-9.	1.9	5
28	What is the Inverse of a Basis?. BIT Numerical Mathematics, 2001, 41, 880-890.	2.0	4
29	A Leibniz Formula for Multivariate Divided Differences. SIAM Journal on Numerical Analysis, 2003, 41, 856-868.	2.3	4
30	The way things were in multivariate splines: A personal view. , 2009, , 19-37.		3