Francesco Dell'Accio

List of Publications by Year
in descending order

41 papers	425 citations	623734 14 h-index	794594 19 g-index
43 all docs	43 docs citations	43 times ranked	135 citing authors

#	Article	IF	Citations
1	Numerical differentiation on scattered data through multivariate polynomial interpolation. BIT Numerical Mathematics, 2022, 62, 773-801.	2.0	5
2	Generalizations of the constrained mock-Chebyshev least squares in two variables: Tensor product vs total degree polynomial interpolation. Applied Mathematics Letters, 2022, 125, 107732.	2.7	6
3	A Parallel Implementation of the Triangular Shepard Interpolation Method. , 2022, , .		1
4	Fast and accurate scattered Hermite interpolation by triangular Shepard operators. Journal of Computational and Applied Mathematics, 2021, 382, 113092.	2.0	7
5	On the numerical computation of bivariate Lagrange polynomials. Applied Mathematics Letters, 2021, 112, 106845.	2.7	6
6	Solving Poisson equation with Dirichlet conditions through multinode Shepard operators. Computers and Mathematics With Applications, 2021, 98, 254-260.	2.7	16
7	On the hexagonal Shepard method. Applied Numerical Mathematics, 2020, 150, 51-64.	2.1	17
8	Rational Hermite interpolation on six-tuples and scattered data. Applied Mathematics and Computation, 2020, 386, 125452.	2.2	3
9	An Efficient Trivariate Algorithm for Tetrahedral Shepard Interpolation. Journal of Scientific Computing, 2020, 82, 1.	2.3	12
10	Comparison of Shepard's Like Methods with Different Basis Functions. Lecture Notes in Computer Science, 2020, , 47-55.	1.3	0
11	Interpolation by Bivariate Quadratic Polynomials and Applications to the Scattered Data Interpolation Problem. Lecture Notes in Computer Science, 2020, , 35-46.	1.3	1
12	A 3D Efficient Procedure for Shepard Interpolants on Tetrahedra. Lecture Notes in Computer Science, 2020, , 27-34.	1.3	0
13	Fast computation of triangular Shepard interpolants. Journal of Computational and Applied Mathematics, 2019, 354, 457-470.	2.0	24
14	Increasing the approximation order of the triangular Shepard method. Applied Numerical Mathematics, 2018, 126, 78-91.	2.1	12
15	Reconstruction of a function from Hermite–Birkhoff data. Applied Mathematics and Computation, 2018, 318, 51-69.	2.2	6
16	Special issue on New Trends in Numerical Analysis: Theory, Methods, Algorithms and Applications (NETNA2015). Applied Numerical Mathematics, 2017, 116, 1.	2.1	0
17	Bivariate Shepard–Bernoulli operators. Mathematics and Computers in Simulation, 2017, 141, 65-82.	4.4	7
18	Relation between grid, channel, and Peano networks in high-resolution digital elevation models. Water Resources Research, 2016, 52, 3527-3546.	4.2	11

#	Article	IF	Citations
19	Multinode rational operators for univariate interpolation. AIP Conference Proceedings, 2016, , .	0.4	0
20	On the enhancement of the approximation order of triangular Shepard method. AIP Conference Proceedings, 2016, , .	0.4	1
21	Preface: The 2nd International Conference â€œNumerical Computations: Theory and Algorithmsâ€• NUMTAâ€"2016. AIP Conference Proceedings, 2016, , .	0.4	1
22	Complete Hermiteâ€"Birkhoff interpolation on scattered data by combined Shepard operators. Journal of Computational and Applied Mathematics, 2016, 300, 192-206.	2.0	24
23	On the constrained mock-Chebyshev least-squares. Journal of Computational and Applied Mathematics, 2015, 280, 94-109.	2.0	17
24	Complementary Lidstone interpolation on scattered data sets. Numerical Algorithms, 2013, 64, 157-180.	1.9	21
25	Enhancing the approximation order of local Shepard operators by Hermite polynomials. Computers and Mathematics With Applications, 2012, 64, 3641-3655.	2.7	18
26	On the bivariate Shepardâ€"Lidstone operators. Journal of Computational and Applied Mathematics, 2012, 236, 1691-1707.	2.0	26
27	The numerical calculation of topological turning points. International Journal of Computer Mathematics, 2011, 88, 3069-3085.	1.8	0
28	Prediction of an Industrial Kneading Process via the Adjustment Curve. Studies in Classification, Data Analysis, and Knowledge Organization, 2011, , 347-355.	0.2	0
29	Approximations on the Peano river network: Application of the Horton-Strahler hierarchy to the case of low connections. Physical Review E, 2009, 79, 026108.	2.1	14
30	Publisher's Note: Approximations on the Peano river network: Application of the Horton-Strahler hierarchy to the case of low connections [Phys. Rev. E79, 026108 (2009)]. Physical Review E, 2009, 79, .	2.1	0
31	New bivariate polynomial expansion with boundary data on the simplex. Calcolo, 2008, 45, 177-192.	1.1	11
32	On the nonsingularity of a special class of centrosymmetric matrices arising in spectral methods in BVPs. Applied Mathematics and Computation, 2008, 206, 991-993.	2.2	1
33	Shepard--Bernoulli operators. Mathematics of Computation, 2007, 76, 299-322.	2.1	24
34	Polynomial approximation of ‹mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	2.0	13
35	New embedded boundary-type quadrature formulas for the simplex. Numerical Algorithms, 2007, 45, 253-267.	1.9	5
36	Explicit polynomial expansions of regular real functions by means of even order Bernoulli polynomials and boundary values. Journal of Computational and Applied Mathematics, 2005, 176, 77-90.	2.0	29

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37	Lidstone approximation on the triangle. Applied Numerical Mathematics, 2005, 52, 339-361.	2.1	24
38	Expansion Over a Rectangle of Real Functions in Bernoulli Polynomials and Applications. BIT Numerical Mathematics, 2001, 41, 451-464.	2.0	32
39	Expansions over a Simplex of Real Functions by Means of Bernoulli Polynomials. Numerical Algorithms, 2001, 28, 63-86.	1.9	18
40	A counterexample to a conjecture related to the Jacobian problem. Mathematical Notes, 1995, 58, 989-992.	0.4	1
41	On the approximation order of triangular Shepard interpolation. IMA Journal of Numerical Analysis, 0, , dru065.	2.9	10