

Arvet A Pedas

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9255291/publications.pdf>

Version: 2024-02-01

62
papers

1,135
citations

331538

21
h-index

395590

33
g-index

65
all docs

65
docs citations

65
times ranked

368
citing authors

#	ARTICLE	IF	CITATIONS
1	Piecewise Polynomial Collocation Methods for Linear Volterra Integro-Differential Equations with Weakly Singular Kernels. SIAM Journal on Numerical Analysis, 2001, 39, 957-982.	1.1	122
2	The piecewise polynomial collocation method for nonlinear weakly singular Volterra equations. Mathematics of Computation, 1999, 68, 1079-1096.	1.1	117
3	Piecewise polynomial collocation for linear boundary value problems of fractional differential equations. Journal of Computational and Applied Mathematics, 2012, 236, 3349-3359.	1.1	81
4	Numerical solution of nonlinear fractional differential equations by spline collocation methods. Journal of Computational and Applied Mathematics, 2014, 255, 216-230.	1.1	79
5	On the convergence of spline collocation methods for solving fractional differential equations. Journal of Computational and Applied Mathematics, 2011, 235, 3502-3514.	1.1	70
6	Spline collocation methods for linear multi-term fractional differential equations. Journal of Computational and Applied Mathematics, 2011, 236, 167-176.	1.1	70
7	Smoothing Transformation and Piecewise Polynomial Collocation for Weakly Singular Volterra Integral Equations. Computing (Vienna/New York), 2004, 73, 271-293.	3.2	59
8	Spline collocation method for integro-differential equations with weakly singular kernels. Journal of Computational and Applied Mathematics, 2006, 197, 253-269.	1.1	40
9	Integral Equations with Diagonal and Boundary Singularities of the Kernel. Zeitschrift Fur Analysis Und Ihre Anwendung, 2006, 25, 487-516.	0.8	33
10	Piecewise Polynomial Collocation for Fredholm Integro-Differential Equations with Weakly Singular Kernels. SIAM Journal on Numerical Analysis, 2005, 43, 1897-1911.	1.1	29
11	Discrete Galerkin method for Fredholm integro-differential equations with weakly singular kernels. Journal of Computational and Applied Mathematics, 2008, 213, 111-126.	1.1	29
12	High-Order Methods for Volterra Integral Equations with General Weak Singularities. Numerical Functional Analysis and Optimization, 2009, 30, 1002-1024.	0.6	29
13	Smoothing transformation and piecewise polynomial projection methods for weakly singular Fredholm integral equations. Communications on Pure and Applied Analysis, 2006, 5, 395-413.	0.4	29
14	Superconvergence of Piecewise Polynomial Collocations for Nonlinear Weakly Singular Integral Equations. Journal of Integral Equations and Applications, 1997, 9, 379.	0.2	28
15	NUMERICAL SOLUTION OF VOLTERRA INTEGRAL EQUATIONS WITH WEAKLY SINGULAR KERNELS WHICH MAY HAVE A BOUNDARY SINGULARITY. Mathematical Modelling and Analysis, 2009, 14, 79-89.	0.7	25
16	Nyström type methods for Fredholm integral equations with weak singularities. Journal of Computational and Applied Mathematics, 2010, 234, 2848-2858.	1.1	25
17	Spline collocation for fractional weakly singular integro-differential equations. Applied Numerical Mathematics, 2016, 110, 204-214.	1.2	24
18	Spline collocation for nonlinear fractional boundary value problems. Applied Mathematics and Computation, 2014, 244, 502-513.	1.4	23

#	ARTICLE	IF	CITATIONS
19	Title is missing!. BIT Numerical Mathematics, 2001, 41, 891-900.	1.0	22
20	Modified spline collocation for linear fractional differential equations. Journal of Computational and Applied Mathematics, 2015, 283, 28-40.	1.1	22
21	Smoothing transformation and spline collocation for nonlinear fractional initial and boundary value problems. Journal of Computational and Applied Mathematics, 2017, 317, 1-16.	1.1	22
22	Smoothing transformation and spline collocation for weakly singular Volterra integro-differential equations. Applied Numerical Mathematics, 2017, 114, 63-76.	1.2	20
23	A discrete collocation method for Fredholm integro-differential equations with weakly singular kernels. Applied Numerical Mathematics, 2011, 61, 738-751.	1.2	18
24	Numerical solution of Volterra integral equations with singularities. Frontiers of Mathematics in China, 2013, 8, 239-259.	0.4	17
25	On the regularity of solutions to integral equations with nonsmooth kernels on a union of open intervals. Journal of Computational and Applied Mathematics, 2009, 229, 440-451.	1.1	13
26	The Smoothness of Solutions to Nonlinear Weakly Singular Integral Equations. Zeitschrift Fur Analysis Und Ihre Anwendung, 1994, 13, 463-476.	0.8	11
27	Smoothing transformation and spline collocation for linear fractional boundary value problems. Applied Mathematics and Computation, 2016, 283, 234-250.	1.4	10
28	Numerical solution of linear fractional weakly singular integro-differential equations with integral boundary conditions. Applied Numerical Mathematics, 2020, 149, 124-140.	1.2	10
29	PRODUCT INTEGRATION FOR WEAKLY SINGULAR INTEGRO-DIFFERENTIAL EQUATIONS. Mathematical Modelling and Analysis, 2011, 16, 153-172.	0.7	9
30	A Smooth Solution of a Singular Fractional Differential Equation. Zeitschrift Fur Analysis Und Ihre Anwendung, 2015, 34, 127-146.	0.8	7
31	Spline Collocation for Multi-Term Fractional Integro-Differential Equations with Weakly Singular Kernels. Fractal and Fractional, 2021, 5, 90.	1.6	7
32	Central part interpolation schemes for integral equations with singularities. Journal of Integral Equations and Applications, 2017, 29, .	0.2	5
33	What is the complexity of periodic weakly singular integral equations?. BIT Numerical Mathematics, 2008, 48, 315-335.	1.0	3
34	Nystroem Type Methods for a Class of Logarithmic Singular Fredholm Integral Equations. , 2011, , .		3
35	FAST SOLVERS OF WEAKLY SINGULAR INTEGRAL EQUATIONS OF THE SECOND KIND. Mathematical Modelling and Analysis, 2018, 23, 639-664.	0.7	3
36	NUMERICAL SOLUTIONS AND THEIR SUPERCONVERGENCE FOR WEAKLY SINGULAR INTEGRAL EQUATIONS WITH DISCONTINUOUS COEFFICIENTS. Mathematical Modelling and Analysis, 1998, 3, 104-113.	0.7	3

#	ARTICLE	IF	CITATIONS
37	The Cubic Spline-Collocation Method for Weakly Singular Integral Equations. Differential Equations, 2001, 37, 1491-1500.	0.1	2
38	Numerical Solution of Fredholm Integral Equations with Diagonal and Boundary Singularities. AIP Conference Proceedings, 2007, , .	0.3	2
39	Quadratic Spline Collocation for the Smoothed Weakly Singular Fredholm Integral Equations. Numerical Functional Analysis and Optimization, 2009, 30, 1048-1064.	0.6	2
40	Numerical solution of fractional integro-differential equations with weakly singular kernels. AIP Conference Proceedings, 2019, , .	0.3	2
41	The Collocation Method with Parabolic Splines for Integral Equations with Singularities. Differential Equations, 2003, 39, 1343-1352.	0.1	1
42	On the approximate solution of weakly singular integro-differential equations of Volterra type. Differential Equations, 2004, 40, 1345-1353.	0.1	1
43	Spline Collocation for Fractional Integro-Differential Equations. Lecture Notes in Computer Science, 2015, , 315-322.	1.0	1
44	Numerical solution of fractional integro-differential equations with non-local boundary conditions. AIP Conference Proceedings, 2018, , .	0.3	1
45	Piecewise Polynomial Approximations for Linear Volterra Integro-Differential Equations with Nonsmooth Kernels. , 2004, , 677-686.		1
46	Numerical Solution of Volterra Integral Equations with Weak Singularities. , 2010, , 507-514.		1
47	POLYNOMIAL SPLINE COLLOCATION METHOD FOR NONLINEAR TWO-DIMENSIONAL WEAKLY SINGULAR INTEGRAL EQUATIONS. Mathematical Modelling and Analysis, 1997, 2, 122-129.	0.7	1
48	A Quasi-Fast Solver for Weakly Singular Integral Equations of the Second Kind. Numerical Functional Analysis and Optimization, 2020, 41, 850-870.	0.6	1
49	Integral equations of the third kind in L^p spaces. Journal of Integral Equations and Applications, 2020, 32, .	0.2	1
50	Gennadi Vainikko 70. Computational Methods in Applied Mathematics, 2008, 8, 203-206.	0.4	0
51	A Collocation Method for Volterra Integral Equations with Diagonal and Boundary Singularities. , 2009, , .		0
52	Smoothing and Quadratic Spline Collocation Method for Weakly Singular Integral Equations. , 2009, , .		0
53	A Tribute to Gennadi Vainikko. Numerical Functional Analysis and Optimization, 2009, 30, 896-902.	0.6	0
54	Piecewise Polynomial Collocation Methods for Fractional Differential Equations. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
55	What is the complexity of weakly singular integral equations?. , 2012, , .		0
56	Smoothing transformation and cubic spline collocation for weakly singular Fredholm integral equations with boundary singularities. , 2012, , .		0
57	Numerical solution of an initial value problem for nonlinear fractional differential equations. , 2013, , .		0
58	On the regularity of solutions of nonlinear integral equations. , 2013, , .		0
59	2015, , .	0.3	0
60	Spline collocation for a class of nonlinear fractional boundary value problems. AIP Conference Proceedings, 2017, , .	0.3	0
61	High order methods for multi-term fractional integro-differential equations with weakly singular kernels. AIP Conference Proceedings, 2022, , .	0.3	0
62	Central part interpolation schemes for a class of fractional initial value problems. Acta Et Commentationes Universitatis Tartuensis De Mathematica, 2022, 26, 161-178.	0.1	0