

# Liviu Marin

## List of Publications by Year in descending order

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95  
papers

2,614  
citations

185998

28  
h-index

214527

47  
g-index

96  
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96  
docs citations

96  
times ranked

734  
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite element method for the reconstruction of a time-dependent heat source in isotropic thermoelasticity systems of type-III. Zeitschrift Fur Angewandte Mathematik Und Physik, 2022, 73, 1.	0.7	0
2	A gradient-based regularization algorithm for the Cauchy problem in steady-state anisotropic heat conduction. Computers and Mathematics With Applications, 2022, 119, 220-240.	1.4	5
3	The method of fundamental solutions for Brinkman flows. Part II. Interior domains. Journal of Engineering Mathematics, 2021, 127, 1.	0.6	4
4	BEM-Fading regularization algorithm for Cauchy problems in 2D anisotropic heat conduction. Numerical Algorithms, 2021, 88, 1667-1702.	1.1	4
5	Fading regularization MFS algorithm for the Cauchy problem in anisotropic heat conduction. Computational Mechanics, 2021, 68, 921-941.	2.2	4
6	The method of fundamental solutions for Brinkman flows. Part I. Exterior domains. Journal of Engineering Mathematics, 2021, 126, 1.	0.6	7
7	The reconstruction of a solely time-dependent load in a simply supported non-homogeneous Euler-Bernoulli beam. Applied Mathematical Modelling, 2020, 79, 914-933.	2.2	7
8	Landweber-Fridman algorithms for the Cauchy problem in steady-state anisotropic heat conduction. Mathematics and Mechanics of Solids, 2020, 25, 1340-1363.	1.5	9
9	MFS-Fading Regularization Method for Inverse BVPs in Anisotropic Heat Conduction. SEMA SIMAI Springer Series, 2020, , 121-138.	0.4	2
10	A meshless fading regularization algorithm for solving the Cauchy problem for the three-dimensional Helmholtz equation. Numerical Algorithms, 2019, 82, 869-894.	1.1	14
11	The method of fundamental solutions for the identification of a scatterer with impedance boundary condition in interior inverse acoustic scattering. Engineering Analysis With Boundary Elements, 2018, 92, 218-224.	2.0	11
12	The method of fundamental solutions for problems in static thermo-elasticity with incomplete boundary data. Inverse Problems in Science and Engineering, 2017, 25, 652-673.	1.2	4
13	An invariant method of fundamental solutions for two-dimensional isotropic linear elasticity. International Journal of Solids and Structures, 2017, 117, 191-207.	1.3	9
14	Recovery of a space-dependent vector source in anisotropic thermoelastic systems. Computer Methods in Applied Mechanics and Engineering, 2017, 321, 269-293.	3.4	9
15	The MFS for the identification of a sound-soft interior acoustic scatterer. Engineering Analysis With Boundary Elements, 2017, 83, 107-112.	2.0	13
16	The Plane Waves Method for Numerical Boundary Identification. Advances in Applied Mathematics and Mechanics, 2017, 9, 1312-1329.	0.7	1
17	Fading regularization MFS algorithm for the Cauchy problem associated with the two-dimensional Helmholtz equation. International Journal of Solids and Structures, 2017, 125, 122-133.	1.3	12
18	Non-iterative regularized MFS solution of inverse boundary value problems in linear elasticity: A numerical study. Applied Mathematics and Computation, 2017, 293, 265-286.	1.4	6

#	ARTICLE	IF	CITATIONS
19	Regularized MFS solution of inverse boundary value problems in three-dimensional steady-state linear thermoelasticity. <i>International Journal of Solids and Structures</i> , 2016, 91, 127-142.	1.3	25
20	The method of fundamental solutions for three-dimensional inverse geometric elasticity problems. <i>Computers and Structures</i> , 2016, 166, 51-59.	2.4	27
21	An invariant method of fundamental solutions for two-dimensional steady-state anisotropic heat conduction problems. <i>International Journal of Heat and Mass Transfer</i> , 2016, 94, 449-464.	2.5	16
22	Fading regularization MFS algorithm for inverse boundary value problems in two-dimensional linear elasticity. <i>International Journal of Solids and Structures</i> , 2016, 78-79, 9-20.	1.3	17
23	A numerical study of the SVD-MFS solution of inverse boundary value problems in two-dimensional steady-state linear thermoelasticity. <i>Numerical Methods for Partial Differential Equations</i> , 2015, 31, 168-201.	2.0	11
24	The method of fundamental solutions for solving direct and inverse Signorini problems. <i>Computers and Structures</i> , 2015, 151, 11-19.	2.4	23
25	Simultaneous numerical determination of a corroded boundary and its admittance. <i>Inverse Problems in Science and Engineering</i> , 2015, 23, 1120-1137.	1.2	3
26	The method of fundamental solutions for an inverse boundary value problem in static thermo-elasticity. <i>Computers and Structures</i> , 2014, 135, 32-39.	2.4	31
27	Regularized collocation Trefftz method for void detection in two-dimensional steady-state heat conduction problems. <i>Inverse Problems in Science and Engineering</i> , 2014, 22, 395-418.	1.2	13
28	A moving pseudo-boundary MFS for void detection in two-dimensional thermoelasticity. <i>International Journal of Mechanical Sciences</i> , 2014, 88, 276-288.	3.6	15
29	The method of fundamental solutions for complex electrical impedance tomography. <i>Engineering Analysis With Boundary Elements</i> , 2014, 46, 126-139.	2.0	5
30	A moving pseudo-boundary method of fundamental solutions for void detection. <i>Numerical Methods for Partial Differential Equations</i> , 2013, 29, 935-960.	2.0	25
31	Efficient MFS Algorithms for Problems in Thermoelasticity. <i>Journal of Scientific Computing</i> , 2013, 56, 96-121.	1.1	8
32	The MFS for the Cauchy problem in two-dimensional steady-state linear thermoelasticity. <i>International Journal of Solids and Structures</i> , 2013, 50, 3387-3398.	1.3	16
33	A domain decomposition method for the stable analysis of inverse nonlinear transient heat conduction problems. <i>International Journal of Heat and Mass Transfer</i> , 2013, 58, 125-134.	2.5	39
34	The MFS-MPS for two-dimensional steady-state thermoelasticity problems. <i>Engineering Analysis With Boundary Elements</i> , 2013, 37, 1004-1020.	2.0	22
35	Determination of optimum cooling conditions for continuous casting by a meshless method. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2013, 227, 1022-1035.	1.1	5
36	A Moving Pseudo-Boundary MFS for Three-Dimensional Void Detection. <i>Advances in Applied Mathematics and Mechanics</i> , 2013, 5, 510-527.	0.7	10

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37	The method of fundamental solutions for the detection of rigid inclusions and cavities in plane linear elastic bodies. <i>Computers and Structures</i> , 2012, 106-107, 176-188.	2.4	29
38	A relaxation method of an alternating iterative MFS algorithm for the Cauchy problem associated with the two-dimensional modified Helmholtz equation. <i>Numerical Methods for Partial Differential Equations</i> , 2012, 28, 899-925.	2.0	6
39	MFS-based solution to two-dimensional linear thermoelasticity problems. , 2012, , .		1
40	A survey of applications of the MFS to inverse problems. <i>Inverse Problems in Science and Engineering</i> , 2011, 19, 309-336.	1.2	193
41	Boundary element analysis of uncoupled transient thermo-elastic problems with time- and space-dependent heat sources. <i>Applied Mathematics and Computation</i> , 2011, 218, 1862-1882.	1.4	31
42	Nonlinear transient heat conduction analysis of functionally graded materials in the presence of heat sources using an improved meshless radial point interpolation method. <i>Applied Mathematical Modelling</i> , 2011, 35, 4157-4174.	2.2	81
43	Relaxation procedures for an iterative MFS algorithm for two-dimensional steady-state isotropic heat conduction Cauchy problems. <i>Engineering Analysis With Boundary Elements</i> , 2011, 35, 415-429.	2.0	17
44	The MFS for numerical boundary identification in two-dimensional harmonic problems. <i>Engineering Analysis With Boundary Elements</i> , 2011, 35, 342-354.	2.0	22
45	The MFS for the detection of inner boundaries in linear elasticity. <i>WIT Transactions on Modelling and Simulation</i> , 2011, , .	0.0	2
46	Boundary reconstruction in two-dimensional steady state anisotropic heat conduction using a regularized meshless method. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 5815-5826.	2.5	17
47	An alternating iterative MFS algorithm for the Cauchy problem for the modified Helmholtz equation. <i>Computational Mechanics</i> , 2010, 45, 665-677.	2.2	30
48	Boundary element analysis of nonlinear transient heat conduction problems involving non-homogenous and nonlinear heat sources using time-dependent fundamental solutions. <i>Engineering Analysis With Boundary Elements</i> , 2010, 34, 655-665.	2.0	37
49	Treatment of singularities in the method of fundamental solutions for two-dimensional Helmholtz-type equations. <i>Applied Mathematical Modelling</i> , 2010, 34, 1615-1633.	2.2	34
50	A relaxation method of an alternating iterative algorithm for the Cauchy problem in linear isotropic elasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 3179-3196.	3.4	25
51	A meshless method for the stable solution of singular inverse problems for two-dimensional Helmholtz-type equations. <i>Engineering Analysis With Boundary Elements</i> , 2010, 34, 274-288.	2.0	15
52	Regularized method of fundamental solutions for boundary identification in two-dimensional isotropic linear elasticity. <i>International Journal of Solids and Structures</i> , 2010, 47, 3326-3340.	1.3	30
53	Relaxation procedures for an iterative MFS algorithm for the stable reconstruction of elastic fields from Cauchy data in two-dimensional isotropic linear elasticity. <i>International Journal of Solids and Structures</i> , 2010, 47, 3462-3479.	1.3	17
54	Boundary element "minimal error method for the Cauchy problem associated with Helmholtz-type equations. <i>Computational Mechanics</i> , 2009, 44, 205-219.	2.2	28

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55	Forward electric field calculation using BEM for time-varying magnetic field gradients and motion in strong static fields. <i>Engineering Analysis With Boundary Elements</i> , 2009, 33, 1074-1088.	2.0	26
56	The minimal error method for the Cauchy problem in linear elasticity. Numerical implementation for two-dimensional homogeneous isotropic linear elasticity. <i>International Journal of Solids and Structures</i> , 2009, 46, 957-974.	1.3	23
57	The plane wave method for inverse problems associated with Helmholtz-type equations. <i>Engineering Analysis With Boundary Elements</i> , 2008, 32, 223-240.	2.0	29
58	Numerical solution for an inverse MRI problem using a regularised boundary element method. <i>Engineering Analysis With Boundary Elements</i> , 2008, 32, 658-675.	2.0	6
59	Application of engineering analysis techniques to the design of magnetic resonance imaging (MRI) coils. <i>Journal of Physics: Conference Series</i> , 2008, 105, 012004.	0.3	0
60	A procedure for the temperature reconstruction in corner domains from Cauchy data. <i>Inverse Problems</i> , 2007, 23, 357-372.	1.0	4
61	The method of fundamental solutions for inverse source problems associated with the steady-state heat conduction. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 69, 1570-1589.	1.5	76
62	An alternating iterative algorithm for the Cauchy problem in anisotropic elasticity. <i>Engineering Analysis With Boundary Elements</i> , 2007, 31, 667-682.	2.0	21
63	The method of fundamental solutions for nonlinear functionally graded materials. <i>International Journal of Solids and Structures</i> , 2007, 44, 6878-6890.	1.3	74
64	Numerical solution of an inverse problem in magnetic resonance imaging using a regularized higher-order boundary element method. <i>WIT Transactions on Modelling and Simulation</i> , 2007, , .	0.0	5
65	Dual reciprocity boundary element method solution of the Cauchy problem for Helmholtz-type equations with variable coefficients. <i>Journal of Sound and Vibration</i> , 2006, 297, 89-105.	2.1	27
66	Numerical boundary identification for Helmholtz-type equations. <i>Computational Mechanics</i> , 2006, 39, 25-40.	2.2	15
67	The method of fundamental solutions for inverse boundary value problems associated with the steady-state heat conduction in anisotropic media. <i>International Journal for Numerical Methods in Engineering</i> , 2006, 65, 1865-1891.	1.5	32
68	Parameter identification in Helmholtz-type equations with a variable coefficient using a regularized DRBEM. <i>Inverse Problems in Science and Engineering</i> , 2006, 14, 837-858.	1.2	5
69	PARAMETER IDENTIFICATION IN TWO-DIMENSIONAL FINS USING THE BOUNDARY ELEMENT METHOD. <i>Numerical Heat Transfer; Part A: Applications</i> , 2006, 50, 315-344.	1.2	9
70	The method of fundamental solutions for inverse boundary value problems associated with the two-dimensional biharmonic equation. <i>Mathematical and Computer Modelling</i> , 2005, 42, 261-278.	2.0	64
71	Two-dimensional thermal analysis of a polygonal fin with two tubes on a square pitch. <i>International Journal of Heat and Mass Transfer</i> , 2005, 48, 3018-3033.	2.5	6
72	A meshless method for the numerical solution of the Cauchy problem associated with three-dimensional Helmholtz-type equations. <i>Applied Mathematics and Computation</i> , 2005, 165, 355-374.	1.4	72

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73	Numerical solution of the Cauchy problem for steady-state heat transfer in two-dimensional functionally graded materials. <i>International Journal of Solids and Structures</i> , 2005, 42, 4338-4351.	1.3	116
74	Detection of cavities in Helmholtz-type equations using the boundary element method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2005, 194, 4006-4023.	3.4	11
75	The method of fundamental solutions for the Cauchy problem associated with two-dimensional Helmholtz-type equations. <i>Computers and Structures</i> , 2005, 83, 267-278.	2.4	137
76	A meshless method for solving the cauchy problem in three-dimensional elastostatics. <i>Computers and Mathematics With Applications</i> , 2005, 50, 73-92.	1.4	68
77	Boundary element-Landweber method for the Cauchy problem in linear elasticity. <i>IMA Journal of Applied Mathematics</i> , 2004, 70, 323-340.	0.8	16
78	Parameter identification in isotropic linear elasticity using the boundary element method. <i>Engineering Analysis With Boundary Elements</i> , 2004, 28, 221-233.	2.0	13
79	The boundary element method for the numerical recovery of a circular inhomogeneity in an elliptic equation. <i>Engineering Analysis With Boundary Elements</i> , 2004, 28, 413-419.	2.0	7
80	Comparison of regularization methods for solving the Cauchy problem associated with the Helmholtz equation. <i>International Journal for Numerical Methods in Engineering</i> , 2004, 60, 1933-1947.	1.5	43
81	Treatment of singularities in Helmholtz-type equations using the boundary element method. <i>Journal of Sound and Vibration</i> , 2004, 278, 39-62.	2.1	29
82	The method of fundamental solutions for the Cauchy problem in two-dimensional linear elasticity. <i>International Journal of Solids and Structures</i> , 2004, 41, 3425-3438.	1.3	91
83	BEM solution for the Cauchy problem associated with Helmholtz-type equations by the Landweber method. <i>Engineering Analysis With Boundary Elements</i> , 2004, 28, 1025-1034.	2.0	72
84	Analysis of polygonal fins using the boundary element method. <i>Applied Thermal Engineering</i> , 2004, 24, 1321-1339.	3.0	18
85	Identification of material properties and cavities in two-dimensional linear elasticity. <i>Computational Mechanics</i> , 2003, 31, 293-300.	2.2	15
86	Conjugate gradient-boundary element solution to the Cauchy problem for Helmholtz-type equations. <i>Computational Mechanics</i> , 2003, 31, 367-377.	2.2	110
87	An alternating iterative algorithm for the Cauchy problem associated to the Helmholtz equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2003, 192, 709-722.	3.4	94
88	BEM first-order regularisation method in linear elasticity for boundary identification. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2003, 192, 2059-2071.	3.4	22
89	Boundary Element Solution for the Cauchy Problem Associated with the Helmholtz Equation by the Tikhonov Regularisation Method. , 2003, , 485-494.		0
90	Conjugate Gradient-Boundary Element Method for the Cauchy Problem in Elasticity. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 2002, 55, 227-247.	0.5	32

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91	Boundary Element Regularisation Methods for Solving the Cauchy Problem in Linear Elasticity. Inverse Problems in Science and Engineering, 2002, 10, 335-357.	0.5	24
92	Regularized boundary element solution for an inverse boundary value problem in linear elasticity. Communications in Numerical Methods in Engineering, 2002, 18, 817-825.	1.3	38
93	An iterative boundary element algorithm for a singular Cauchy problem in linear elasticity. Computational Mechanics, 2002, 28, 479-488.	2.2	13
94	Boundary element solution for the Cauchy problem in linear elasticity using singular value decomposition. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 3257-3270.	3.4	49
95	Boundary element method for the Cauchy problem in linear elasticity. Engineering Analysis With Boundary Elements, 2001, 25, 783-793.	2.0	55