

# Damian Slota

## List of Publications by Citations

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114  
papers

866  
citations

17  
h-index

24  
g-index

128  
ext. papers

974  
ext. citations

1.8  
avg, IF

4.76  
L-index

#	Paper	IF	Citations
114	Direct and inverse one-phase Stefan problem solved by the variational iteration method. <i>Computers and Mathematics With Applications</i> , <b>2007</b> , 54, 1139-1146	2.7	47
113	Identification of the Cooling Condition in 2-D and 3-D Continuous Casting Processes. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , <b>2009</b> , 55, 155-176	1.3	39
112	Application of the homotopy perturbation method for the solution of inverse heat conduction problem. <i>International Communications in Heat and Mass Transfer</i> , <b>2012</b> , 39, 30-35	5.8	37
111	The application of the homotopy perturbation method to one-phase inverse Stefan problem. <i>International Communications in Heat and Mass Transfer</i> , <b>2010</b> , 37, 587-592	5.8	34
110	Solving the inverse Stefan design problem using genetic algorithms. <i>Inverse Problems in Science and Engineering</i> , <b>2008</b> , 16, 829-846	1.3	34
109	Homotopy Perturbation Method for Solving the Two-Phase Inverse Stefan Problem. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2011</b> , 59, 755-768	2.3	32
108	Restoring boundary conditions in the solidification of pure metals. <i>Computers and Structures</i> , <b>2011</b> , 89, 48-54	4.5	30
107	One-phase inverse stefan problem solved by adomian decomposition method. <i>Computers and Mathematics With Applications</i> , <b>2006</b> , 51, 33-40	2.7	29
106	Cardano's formula, square roots, Chebyshev polynomials and radicals. <i>Journal of Mathematical Analysis and Applications</i> , <b>2010</b> , 363, 639-647	1.1	28
105	Usage of the homotopy analysis method for solving the nonlinear and linear integral equations of the second kind. <i>Numerical Algorithms</i> , <b>2014</b> , 67, 163-185	2.1	23
104	Solution of the one-phase inverse Stefan problem by using the homotopy analysis method. <i>Applied Mathematical Modelling</i> , <b>2015</b> , 39, 6793-6805	4.5	21
103	Using genetic algorithms for the determination of an heat transfer coefficient in three-phase inverse Stefan problem. <i>International Communications in Heat and Mass Transfer</i> , <b>2008</b> , 35, 149-156	5.8	21
102	Determination of Optimal Parameters for the Immune Algorithm Used for Solving Inverse Heat Conduction Problems with and without a Phase Change. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , <b>2012</b> , 62, 462-478	1.3	19
101	Comparison of mathematical models with fractional derivative for the heat conduction inverse problem based on the measurements of temperature in porous aluminum. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 143, 118440	4.9	18
100	A study of the convergence of and error estimation for the homotopy perturbation method for the Volterra-Fredholm integral equations. <i>Applied Mathematics Letters</i> , <b>2013</b> , 26, 165-169	3.5	17
99	On computing the determinants and inverses of some special type of tridiagonal and constant-diagonals matrices. <i>Applied Mathematics and Computation</i> , <b>2007</b> , 189, 514-527	2.7	17
98	Stefan problem solved by Adomian decomposition method. <i>International Journal of Computer Mathematics</i> , <b>2005</b> , 82, 851-856	1.2	17

97	Experimental verification of immune recruitment mechanism and clonal selection algorithm applied for solving the inverse problems of pure metal solidification. <i>International Communications in Heat and Mass Transfer</i> , <b>2013</b> , 47, 7-14	5.8	15
96	A stronger version of the second mean value theorem for integrals. <i>Computers and Mathematics With Applications</i> , <b>2012</b> , 64, 1612-1615	2.7	15
95	A new application of Heñ variational iteration method for the solution of the one-phase Stefan problem. <i>Computers and Mathematics With Applications</i> , <b>2009</b> , 58, 2489-2494	2.7	15
94	On modified Chebyshev polynomials. <i>Journal of Mathematical Analysis and Applications</i> , <b>2006</b> , 324, 321-343	3.4	15
93	Using the swarm intelligence algorithms in solution of the two-dimensional inverse Stefan problem. <i>Computers and Mathematics With Applications</i> , <b>2015</b> , 69, 347-361	2.7	14
92	Solution of the Inverse Heat Conduction Problem by Using the ABC Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 659-668	0.9	14
91	Restoration of the cooling conditions in a three-dimensional continuous casting process using artificial intelligence algorithms. <i>Applied Mathematical Modelling</i> , <b>2015</b> , 39, 4797-4807	4.5	13
90	Comparison of the Adomian decomposition method and the variational iteration method in solving the moving boundary problem. <i>Computers and Mathematics With Applications</i> , <b>2011</b> , 61, 1931-1934	2.7	13
89	Analysis of emptiness (lacunarity) as a measure of the degree of space filling and of the internal structure of a set. <i>Materials Characterization</i> , <b>2006</b> , 56, 421-428	3.9	13
88	Convergence and error estimation of homotopy perturbation method for Fredholm and Volterra integral equations. <i>Applied Mathematics and Computation</i> , <b>2012</b> , 218, 10717-10725	2.7	12
87	Reconstruction of the Boundary Condition in the Problem of the Binary Alloy Solidification. <i>Archives of Metallurgy and Materials</i> , <b>2011</b> , 56,		11
86	Comparing the Adomian decomposition method and the Rungeñutta method for solutions of the Stefan problem. <i>International Journal of Computer Mathematics</i> , <b>2006</b> , 83, 409-417	1.2	11
85	Homotopy Approach for Integrodifferential Equations. <i>Mathematics</i> , <b>2019</b> , 7, 904	2.3	9
84	Identification of the heat transfer coefficient in the two-dimensional model of binary alloy solidification. <i>Heat and Mass Transfer</i> , <b>2017</b> , 53, 1657-1666	2.2	9
83	Convergence and error estimation of homotopy analysis method for some type of nonlinear and linear integral equations. <i>Journal of Numerical Mathematics</i> , <b>2015</b> , 23,	3.4	9
82	Reconstruction of the boundary condition for the heat conduction equation of fractional order. <i>Thermal Science</i> , <b>2015</b> , 19, 35-42	1.2	9
81	Comparison of ABC and ACO Algorithms Applied for Solving the Inverse Heat Conduction Problem. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 249-257	0.9	9
80	Experimental Verification of Selected Artificial Intelligence Algorithms Used for Solving the Inverse Stefan Problem. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , <b>2014</b> , 66, 343-359	1.3	8

79	Inversion of dynamic matrices of HDD head positioning system. <i>Applied Mathematical Modelling</i> , <b>2011</b> , 35, 1497-1505	4.5	8
78	Exact solution of the heat equation with boundary condition of the fourth kind by HeB variational iteration method. <i>Computers and Mathematics With Applications</i> , <b>2009</b> , 58, 2495-2503	2.7	8
77	Using the Artificial Bee Colony Algorithm for Determining the Heat Transfer Coefficient. <i>Advances in Intelligent and Soft Computing</i> , <b>2011</b> , 369-376		8
76	Modeling of Heat Distribution in Porous Aluminum Using Fractional Differential Equation. <i>Fractal and Fractional</i> , <b>2017</b> , 1, 17	3	7
75	Determination of the Heat Transfer Coefficient by Using the Ant Colony Optimization Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 470-479	0.9	7
74	Solution of the inverse heat conduction problem with Neumann boundary condition by using the homotopy perturbation method. <i>Thermal Science</i> , <b>2013</b> , 17, 643-650	1.2	7
73	An analytical method for solving the two-phase inverse Stefan problem. <i>Bulletin of the Polish Academy of Sciences: Technical Sciences</i> , <b>2015</b> , 63, 583-590		6
72	Reconstruction of the Thermal Conductivity Coefficient in the Time Fractional Diffusion Equation. <i>Lecture Notes in Electrical Engineering</i> , <b>2015</b> , 239-247	0.2	6
71	Inverse alloy solidification problem including the material shrinkage phenomenon solved by using the bee algorithm. <i>International Communications in Heat and Mass Transfer</i> , <b>2017</b> , 87, 295-301	5.8	5
70	Some phenomenon of the powers of certain tridiagonal and asymmetric matrices. <i>Applied Mathematics and Computation</i> , <b>2008</b> , 202, 348-359	2.7	5
69	Solution of the direct alloy solidification problem including the phenomenon of material shrinkage. <i>Thermal Science</i> , <b>2017</b> , 21, 105-115	1.2	5
68	Multi-phase Inverse Stefan Problems Solved by Approximation Method. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 679-686	0.9	5
67	Comparison of the Probabilistic Ant Colony Optimization Algorithm and Some Iteration Method in Application for Solving the Inverse Problem on Model With the Caputo Type Fractional Derivative. <i>Entropy</i> , <b>2020</b> , 22,	2.8	4
66	Reconstruction of the Robin boundary condition and order of derivative in time fractional heat conduction equation. <i>Mathematical Modelling of Natural Phenomena</i> , <b>2018</b> , 13, 5	3	4
65	A certain analytical method used for solving the Stefan problem. <i>Thermal Science</i> , <b>2013</b> , 17, 635-642	1.2	4
64	Fibonacci numbers. <i>Applicable Analysis and Discrete Mathematics</i> , <b>2009</b> , 3, 310-329	1	4
63	Partial fractions decompositions of some rational functions. <i>Applied Mathematics and Computation</i> , <b>2008</b> , 197, 328-336	2.7	4
62	On similarities between exponential polynomials and Hermite polynomials. <i>Journal of Applied Mathematics and Computational Mechanics</i> , <b>2013</b> , 12, 93-104	2.1	4

61	Application of Real Ant Colony Optimization algorithm to solve space and time fractional heat conduction inverse problem. <i>Information Technology and Control</i> , <b>2017</b> , 46,	1.3	4
60	Fibonacci and Lucas numbers, Fibonacci and Lucas polynomials. <i>Mathematica Slovaca</i> , <b>2017</b> , 67, 51-70	0.7	3
59	Application of the Homotopy Method for Fractional Inverse Stefan Problem. <i>Energies</i> , <b>2020</b> , 13, 5474	3.1	3
58	Three Brick Method of the Partial Fraction Decomposition of Some Type of Rational Expression. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 659-662	0.9	3
57	Experimental verification of approximate solution of the inverse Stefan problem obtained by applying the invasive weed optimization algorithm. <i>Thermal Science</i> , <b>2015</b> , 19, 205-212	1.2	3
56	Application of the Swarm Intelligence Algorithm for Investigating the Inverse Continuous Casting Problem. <i>Studies in Computational Intelligence</i> , <b>2013</b> , 157-162	0.8	3
55	Application of Intelligent Algorithm to Solve the Fractional Heat Conduction Inverse Problem. <i>Communications in Computer and Information Science</i> , <b>2015</b> , 356-365	0.3	3
54	APPLICATION OF THE HOMOTOPY ANALYSIS METHOD FOR SOLVING THE SYSTEMS OF LINEAR AND NONLINEAR INTEGRAL EQUATIONS. <i>Mathematical Modelling and Analysis</i> , <b>2016</b> , 21, 350-370	1.3	3
53	Parallel Procedure Based on the Swarm Intelligence for Solving the Two-Dimensional Inverse Problem of Binary Alloy Solidification. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 287-297	0.9	3
52	Influence of the Mutation Operator on the Solution of an Inverse Stefan Problem by Genetic Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 786-789	0.9	3
51	Application of the homotopy analysis method for solving the two-dimensional steady-state heat conduction problem <b>2014</b> ,		2
50	Some properties of the full matrices. <i>Applied Mathematics and Computation</i> , <b>2012</b> , 219, 1222-1231	2.7	2
49	On the sum of some alternating series. <i>Computers and Mathematics With Applications</i> , <b>2011</b> , 62, 2658-2664		2
48	FIXED AND PERIODIC POINTS OF POLYNOMIALS GENERATED BY MINIMAL POLYNOMIALS OF $2\cos(2\pi/n)$ . <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2009</b> , 19, 3005-3016	2	2
47	Multiscale description of the inhomogeneity of multiphase materials. <i>Materials Characterization</i> , <b>2009</b> , 60, 1145-1150	3.9	2
46	Solution of the two-phase Stefan problem by using the Picard's iterative method. <i>Thermal Science</i> , <b>2011</b> , 15, 21-26	1.2	2
45	Some identities for the moments of random variables having a linear rescaling the Student's t distribution. <i>Journal of Mathematical Analysis and Applications</i> , <b>2010</b> , 361, 276-279	1.1	2
44	Cauchy, Ferrers-Jackson and Chebyshev polynomials and identities for the powers of elements of some conjugate recurrence sequences <b>2006</b> , 4, 531-546		2

43	An Application of the Adomian Decomposition Method for Inverse Stefan Problem with Neumann Boundary Condition. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 895-898	0.9	2
42	CONVOLUTION IDENTITIES FOR CENTRAL BINOMIAL NUMBERS. <i>International Journal of Pure and Applied Mathematics</i> , <b>2013</b> , 85,		2
41	Some generalizations of Gregory's power series and their applications. <i>Journal of Applied Mathematics and Computational Mechanics</i> , <b>2013</b> , 12, 79-91	2.1	2
40	Matrix methods in evaluation of integrals. <i>Journal of Applied Mathematics and Computational Mechanics</i> , <b>2020</b> , 19, 103-112	2.1	2
39	Reconstruction of the thermal conductivity coefficient in the space fractional heat conduction equation. <i>Thermal Science</i> , <b>2017</b> , 21, 81-88	1.2	2
38	Application and comparison of intelligent algorithms to solve the fractional heat conduction inverse problem. <i>Information Technology and Control</i> , <b>2016</b> , 45,	1.3	2
37	The Estimation of the Mathematical Exactness of System Dynamics Method on the Base of Some Economic System. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 634-637	0.9	2
36	Application of the Ant Colony Optimization Algorithm for Reconstruction of the Thermal Conductivity Coefficient. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 240-248	0.9	2
35	Application of Real Ant Colony Optimization Algorithm to Solve Space Fractional Heat Conduction Inverse Problem. <i>Communications in Computer and Information Science</i> , <b>2016</b> , 369-379	0.3	2
34	Inverse Continuous Casting Problem Solved by Applying the Artificial Bee Colony Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 431-440	0.9	2
33	Examination of Chaos Occurring in Selected Branched Kinematic Chains of Robot Manipulators. <i>Lecture Notes in Electrical Engineering</i> , <b>2015</b> , 109-126	0.2	1
32	Application of the Swarm Intelligence Algorithm for Reconstructing the Cooling Conditions of Steel Ingot Continuous Casting. <i>Energies</i> , <b>2020</b> , 13, 2429	3.1	1
31	Some new facts about group $\varphi$ generated by the family of convergent permutations. <i>Open Mathematics</i> , <b>2017</b> , 15, 568-577	0.8	1
30	Generalized Gregory series. <i>Applied Mathematics and Computation</i> , <b>2014</b> , 237, 203-216	2.7	1
29	Reconstruction Robin Boundary Condition in the Heat Conduction Inverse Problem of Fractional Order. <i>Lecture Notes in Electrical Engineering</i> , <b>2017</b> , 147-156	0.2	1
28	An analytical technique for solving general linear integral equations of the second kind and its application in analysis of flash lamp control circuit. <i>Bulletin of the Polish Academy of Sciences: Technical Sciences</i> , <b>2014</b> , 62, 413-421		1
27	Determination of the Heat Flux in the Process of Solidification by Applying the Ant Colony Optimization Algorithm. <i>Key Engineering Materials</i> , <b>2014</b> , 622-623, 764-771	0.4	1
26	Some properties of inverses of the full matrices. <i>Computers and Mathematics With Applications</i> , <b>2012</b> , 63, 905-911	2.7	1

25	Identification of the heat transfer coefficient in phase change problems. <i>Archives of Thermodynamics</i> , <b>2010</b> , 31, 61-78		1
24	Three-Phase Inverse Design Stefan Problem. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 184-191	0.9	1
23	Optimization Embedded in Simulation on Models Type System Dynamics [Some Case Study]. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 837-842	0.9	1
22	A Method for Solving the Time Fractional Heat Conduction Inverse Problem Based on Ant Colony Optimization and Artificial Bee Colony Algorithms. <i>Communications in Computer and Information Science</i> , <b>2017</b> , 351-361	0.3	1
21	Integers Powers of Certain Asymmetric Matrices. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 580-587	0.9	1
20	Artificial Bee Colony Algorithm Used for Reconstructing the Heat Flux Density in the Solidification Process. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 363-372	0.9	1
19	Solution of the Inverse Continuous Casting Problem with the Aid of Modified Harmony Search Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 402-411	0.9	1
18	Parameter Identification in the Two-Dimensional Riesz Space Fractional Diffusion Equation. <i>Fractal and Fractional</i> , <b>2020</b> , 4, 39	3	1
17	Reconstruction of the Boundary Condition in the Binary Alloy Solidification Problem with the Macroseggregation and the Material Shrinkage Phenomena Taken into Account. <i>Heat Transfer Engineering</i> , <b>2021</b> , 42, 308-318	1.7	1
16	Intelligent System for Detection of Breathing Disorders. <i>Communications in Computer and Information Science</i> , <b>2015</b> , 366-375	0.3	0
15	Inverse Problem for a Two-Dimensional Anomalous Diffusion Equation with a Fractional Derivative of the Riemann-Liouville Type. <i>Energies</i> , <b>2021</b> , 14, 3082	3.1	0
14	On some new subfamilies of classical spaces of absolutely p-summable sequences. <i>Tatra Mountains Mathematical Publications</i> , <b>2011</b> , 49, 27-48	0.4	
13	Logistic description of alloy hardness profile. <i>Materials Characterization</i> , <b>2001</b> , 46, 169-173	3.9	
12	Comparison of Simulation and Optimization Possibilities for Languages: DYNAMO and COSMIC & COSMOS [on a Base of the Chosen Models]. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 24-29	0.9	
11	Application of the Variational Iteration Method for Inverse Stefan Problem with Neumann Boundary Condition. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 1005-1012	0.9	
10	Application of an Ant Colony Optimization Algorithm in Modeling the Heat Transfer in Porous Aluminum. <i>Communications in Computer and Information Science</i> , <b>2018</b> , 370-378	0.3	
9	APPLICATION OF THE HOMOTOPY ANALYSIS METHOD FOR DETERMINING THE FREE VIBRATIONS OF BEAM. <i>Architecture Civil Engineering Environment</i> , <b>2018</b> , 11, 61-71	0.4	
8	Parameter Identification of the Fractional Order Heat Conduction Model Using a Hybrid Algorithm. <i>Communications in Computer and Information Science</i> , <b>2019</b> , 475-484	0.3	

7	On the Three, Five and Other Periodic Orbits of Some Polynomials. <i>Lecture Notes in Electrical Engineering</i> , <b>2015</b> , 91-107	0.2
6	On Some Inequalities for Fourier Coefficients. <i>Lecture Notes in Electrical Engineering</i> , <b>2015</b> , 81-89	0.2
5	Solution of the Inverse Stefan Problem by Applying the Procedure Based on the Modified Harmony Search Algorithm. <i>Studies in Computational Intelligence</i> , <b>2013</b> , 175-180	0.8
4	On Certain Approximation Problem Connected with the Sums of Subseries. <i>Tatra Mountains Mathematical Publications</i> , <b>2013</b> , 55, 37-45	0.4
3	Lacunarity Term as a Basis of Multiscale Quantification of Structural Components Distribution Inhomogeneity of Multiphase Materials. <i>Praktische Metallographie/Practical Metallography</i> , <b>2013</b> , 50, 561-575	0.3
2	Clonal Selection Algorithm in Identification of Boundary Condition in the Inverse Stefan Problem. <i>Advances in Intelligent Systems and Computing</i> , <b>2014</b> , 511-518	0.4
1	Identification of the air gap thermal resistance in the model of binary alloy solidification including the macrosegregation and the material shrinkage phenomena. <i>Inverse Problems in Science and Engineering</i> , 1-17	1.3