

Edyta Hetmaniok

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

486
citations

758635

12
h-index

794141

19
g-index

75
all docs

75
docs citations

75
times ranked

276
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of the homotopy perturbation method for the solution of inverse heat conduction problem. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 30-35.	2.9	47
2	Usage of the homotopy analysis method for solving the nonlinear and linear integral equations of the second kind. <i>Numerical Algorithms</i> , 2014, 67, 163-185.	1.1	30
3	Solution of the one-phase inverse Stefan problem by using the homotopy analysis method. <i>Applied Mathematical Modelling</i> , 2015, 39, 6793-6805.	2.2	25
4	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> , 2012, 62, 462-478.	0.6	23
5	A stronger version of the second mean value theorem for integrals. <i>Computers and Mathematics With Applications</i> , 2012, 64, 1612-1615.	1.4	19
6	Solution of the Inverse Heat Conduction Problem by Using the ABC Algorithm. <i>Lecture Notes in Computer Science</i> , 2010, , 659-668.	1.0	19
7	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> , 2013, 26, 165-169.	1.5	18
8	Using the swarm intelligence algorithms in solution of the two-dimensional inverse Stefan problem. <i>Computers and Mathematics With Applications</i> , 2015, 69, 347-361.	1.4	18
9	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> , 2013, 47, 7-14.	2.9	17
10	Restoration of the cooling conditions in a three-dimensional continuous casting process using artificial intelligence algorithms. <i>Applied Mathematical Modelling</i> , 2015, 39, 4797-4807.	2.2	17
11	Comparison of the Adomian decomposition method and the variational iteration method in solving the moving boundary problem. <i>Computers and Mathematics With Applications</i> , 2011, 61, 1931-1934.	1.4	15
12	Convergence and error estimation of homotopy perturbation method for Fredholm and Volterra integral equations. <i>Applied Mathematics and Computation</i> , 2012, 218, 10717-10725.	1.4	13
13	Comparison of ABC and ACO Algorithms Applied for Solving the Inverse Heat Conduction Problem. <i>Lecture Notes in Computer Science</i> , 2012, , 249-257.	1.0	13
14	Solution of the inverse heat conduction problem with Neumann boundary condition by using the homotopy perturbation method. <i>Thermal Science</i> , 2013, 17, 643-650.	0.5	12
15	More subtle versions of the Hadamard inequality. <i>Linear Algebra and Its Applications</i> , 2017, 532, 500-511.	0.4	12
16	Solution of the two-dimensional inverse problem of the binary alloy solidification by applying the Ant Colony Optimization algorithm. <i>International Communications in Heat and Mass Transfer</i> , 2015, 67, 39-45.	2.9	11
17	Homotopy Approach for Integrodifferential Equations. <i>Mathematics</i> , 2019, 7, 904.	1.1	11
18	Convergence and error estimation of homotopy analysis method for some type of nonlinear and linear integral equations. <i>Journal of Numerical Mathematics</i> , 2015, 23, .	1.8	10

#	ARTICLE	IF	CITATIONS
19	Identification of the heat transfer coefficient in the two-dimensional model of binary alloy solidification. <i>Heat and Mass Transfer</i> , 2017, 53, 1657-1666.	1.2	10
20	Inverse alloy solidification problem including the material shrinkage phenomenon solved by using the bee algorithm. <i>International Communications in Heat and Mass Transfer</i> , 2017, 87, 295-301.	2.9	9
21	Determination of the Heat Transfer Coefficient by Using the Ant Colony Optimization Algorithm. <i>Lecture Notes in Computer Science</i> , 2012, , 470-479.	1.0	8
22	A certain analytical method used for solving the Stefan problem. <i>Thermal Science</i> , 2013, 17, 635-642.	0.5	8
23	Experimental Verification of Selected Artificial Intelligence Algorithms Used for Solving the Inverse Stefan Problem. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2014, 66, 343-359.	0.6	8
24	Inverse problem for the solidification of binary alloy in the casting mould solved by using the bee optimization algorithm. <i>Heat and Mass Transfer</i> , 2016, 52, 1369-1379.	1.2	8
25	Using the Artificial Bee Colony Algorithm for Determining the Heat Transfer Coefficient. <i>Advances in Intelligent and Soft Computing</i> , 2011, , 369-376.	0.2	8
26	Solution of the direct alloy solidification problem including the phenomenon of material shrinkage. <i>Thermal Science</i> , 2017, 21, 105-115.	0.5	8
27	Solving the Integral Differential Equations with Delayed Argument by Using the DTM Method. <i>Sensors</i> , 2022, 22, 4124.	2.1	7
28	An analytical method for solving the two-phase inverse Stefan problem. <i>Bulletin of the Polish Academy of Sciences: Technical Sciences</i> , 2015, 63, 583-590.	0.8	6
29	Comparison of the Selected Methods Used for Solving the Ordinary Differential Equations and Their Systems. <i>Mathematics</i> , 2022, 10, 306.	1.1	6
30	Solution of the two-phase Stefan problem by using the Picard's iterative method. <i>Thermal Science</i> , 2011, 15, 21-26.	0.5	5
31	APPLICATION OF THE HOMOTOPY ANALYSIS METHOD FOR SOLVING THE SYSTEMS OF LINEAR AND NONLINEAR INTEGRAL EQUATIONS. <i>Mathematical Modelling and Analysis</i> , 2016, 21, 350-370.	0.7	5
32	On similarities between exponential polynomials and Hermite polynomials. <i>Journal of Applied Mathematics and Computational Mechanics</i> , 2013, 12, 93-104.	0.3	5
33	Experimental verification of approximate solution of the inverse Stefan problem obtained by applying the invasive weed optimization algorithm. <i>Thermal Science</i> , 2015, 19, 205-212.	0.5	4
34	Numerical Procedure for Heat Transfer Coefficient Identification in Solidification of Binary Alloys and Its Experimental Verification. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2015, 68, 93-114.	0.6	3
35	Solution of the inverse problem in solidification of binary alloy by applying the ACO algorithm. <i>Inverse Problems in Science and Engineering</i> , 2016, 24, 889-900.	1.2	3
36	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> , 2016, , 287-297.	1.0	3

#	ARTICLE	IF	CITATIONS
37	Binomials transformation formulae for scaled Fibonacci numbers. <i>Open Mathematics</i> , 2017, 15, 477-485.	0.5	3
38	\hat{F} -Fibonacci and \hat{F} -lucas numbers, \hat{F} -fibonacci and \hat{F} -lucas polynomials. <i>Mathematica Slovaca</i> , 2017, 67, 51-70.	0.3	3
39	Application of the Swarm Intelligence Algorithm for Investigating the Inverse Continuous Casting Problem. <i>Studies in Computational Intelligence</i> , 2013, , 157-162.	0.7	3
40	Application of the Ant Colony Optimization Algorithm for Reconstruction of the Thermal Conductivity Coefficient. <i>Lecture Notes in Computer Science</i> , 2012, , 240-248.	1.0	3
41	Some properties of inverses of the full matrices. <i>Computers and Mathematics With Applications</i> , 2012, 63, 905-911.	1.4	2
42	Determination of the Heat Flux in the Process of Solidification by Applying the Ant Colony Optimization Algorithm. <i>Key Engineering Materials</i> , 0, 622-623, 764-771.	0.4	2
43	Generalized Gregory's series. <i>Applied Mathematics and Computation</i> , 2014, 237, 203-216.	1.4	2
44	Application of the homotopy analysis method for solving the two-dimensional steady-state heat conduction problem. , 2014, , .		2
45	Hermite-Bell's Polynomials for Negative Powers. , 2019, , .		2
46	Application of the Swarm Intelligence Algorithm for Reconstructing the Cooling Conditions of Steel Ingot Continuous Casting. <i>Energies</i> , 2020, 13, 2429.	1.6	2
47	Artificial bee colony algorithm in the solution of selected inverse problem of the binary alloy solidification. <i>Thermal Science</i> , 2016, 20, 1609-1620.	0.5	2
48	Inverse Continuous Casting Problem Solved by Applying the Artificial Bee Colony Algorithm. <i>Lecture Notes in Computer Science</i> , 2013, , 431-440.	1.0	2
49	BOSON STRUCTURE OF THE $1s_0d$ AND $1p_0f$ -SHELL NUCLEI OBTAINED FROM THE SHELL MODEL. <i>International Journal of Modern Physics E</i> , 2006, 15, 446-451.	0.4	1
50	BOSON APPROACH TO THE STRUCTURE OF $A = 62$ NUCLEI. <i>International Journal of Modern Physics E</i> , 2007, 16, 592-602.	0.4	1
51	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> , 2014, 62, 413-421.	0.8	1
52	On series whose rearrangements possess discrete sets of limit points. <i>Journal of Applied Analysis</i> , 2014, 20, .	0.2	1
53	Iterated integrals of polynomials. <i>Applied Mathematics and Computation</i> , 2014, 249, 389-398.	1.4	1
54	Some new facts about group \mathcal{P} generated by the family of convergent permutations. <i>Open Mathematics</i> , 2017, 15, 568-577.	0.5	1

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55	Parametric-vector versions of the Gerschgorin Theorem and the Brauer Theorem. AIP Conference Proceedings, 2018, , .	0.3	1
56	Reconstruction of the Boundary Condition in the Binary Alloy Solidification Problem with the Macrosegregation and the Material Shrinkage Phenomena Taken into Account. Heat Transfer Engineering, 2021, 42, 308-318.	1.2	1
57	Artificial Bee Colony Algorithm Used for Reconstructing the Heat Flux Density in the Solidification Process. Lecture Notes in Computer Science, 2014, , 363-372.	1.0	1
58	Solution of the Inverse Continuous Casting Problem with the Aid of Modified Harmony Search Algorithm. Lecture Notes in Computer Science, 2014, , 402-411.	1.0	1
59	Intelligent System for Detection of Breathing Disorders. Communications in Computer and Information Science, 2015, , 366-375.	0.4	1
60	Kaprekar's transformations. Part I – theoretical discussion. , 0, , .		1
61	A boson approach to the structure of A=22 nuclei. Open Physics, 2003, 1, .	0.8	0
62	Boson structure of the 1s0d and 1p0f- shell nuclei. AIP Conference Proceedings, 2006, , .	0.3	0
63	Generalization of Eulerian numbers and their application. , 2014, , .		0
64	Artificial Bee Colony Algorithm Used for Solving some Inverse Problem in Solidification of the Binary Alloy. Key Engineering Materials, 0, 622-623, 756-763.	0.4	0
65	On certain approximation problem in normed spaces. , 2014, , .		0
66	Identification of the air gap thermal resistance in the model of binary alloy solidification including the macrosegregation and the material shrinkage phenomena. Inverse Problems in Science and Engineering, 0, , 1-17.	1.2	0
67	On Certain Approximation Problem Connected with the Sums of Subseries. Tatra Mountains Mathematical Publications, 2013, 55, 37-45.	0.1	0
68	On Commutation Properties of the Composition Relation of Convergent and Divergent Permutations (Part I). Tatra Mountains Mathematical Publications, 2014, 58, 13-22.	0.1	0
69	On the Three, Five and Other Periodic Orbits of Some Polynomials. Lecture Notes in Electrical Engineering, 2015, , 91-107.	0.3	0
70	On the limits of quotients of polynomials in two variables. Journal of Applied Mathematics and Computational Mechanics, 2015, 14, 121-132.	0.3	0