

Antonio M Vargas

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

244
citations

1162367

8
h-index

996533

15
g-index

24
all docs

24
docs citations

24
times ranked

94
citing authors

#	ARTICLE	IF	CITATIONS
1	Solving second order non-linear parabolic PDEs using generalized finite difference method (GFDM). Journal of Computational and Applied Mathematics, 2019, 354, 221-241.	1.1	42
2	Finite difference method for solving fractional differential equations at irregular meshes. Mathematics and Computers in Simulation, 2022, 193, 204-216.	2.4	38
3	Solving the telegraph equation in 2-D and 3-D using generalized finite difference method (GFDM). Engineering Analysis With Boundary Elements, 2020, 112, 13-24.	2.0	29
4	On the numerical solution to a parabolic-elliptic system with chemotactic and periodic terms using Generalized Finite Differences. Engineering Analysis With Boundary Elements, 2020, 113, 181-190.	2.0	23
5	Solving a chemotaxis-haptotaxis system in 2D using Generalized Finite Difference Method. Computers and Mathematics With Applications, 2020, 80, 762-777.	1.4	15
6	Solving second order non-linear hyperbolic PDEs using generalized finite difference method (GFDM). Journal of Computational and Applied Mathematics, 2020, 363, 1-21.	1.1	13
7	Non-linear Fokker-Planck equation solved with generalized finite differences in 2D and 3D. Applied Mathematics and Computation, 2020, 368, 124801.	1.4	11
8	A note on a periodic Parabolic-ODE chemotaxis system. Applied Mathematics Letters, 2020, 106, 106351.	1.5	9
9	An effective numeric method for different formulations of the elastic wave propagation problem in isotropic medium.. Applied Mathematical Modelling, 2021, 96, 480-496.	2.2	9
10	Solving a fully parabolic chemotaxis system with periodic asymptotic behavior using Generalized Finite Difference Method. Applied Numerical Mathematics, 2020, 157, 356-371.	1.2	8
11	Solving Monge-Ampère equation in 2D and 3D by Generalized Finite Difference Method. Engineering Analysis With Boundary Elements, 2021, 124, 52-63.	2.0	6
12	Convergence and numerical simulations of prey-predator interactions via a meshless method. Applied Numerical Mathematics, 2021, 161, 333-347.	1.2	5
13	Convergence and Numerical Solution of a Model for Tumor Growth. Mathematics, 2021, 9, 1355.	1.1	5
14	A Novel Spatio-Temporal Fully Meshless Method for Parabolic PDEs. Mathematics, 2022, 10, 1870.	1.1	5
15	Complex Ginzburg-Landau Equation with Generalized Finite Differences. Mathematics, 2020, 8, 2248.	1.1	4
16	Continuous and discrete periodic asymptotic behavior of solutions to a competitive chemotaxis PDEs system. Communications in Nonlinear Science and Numerical Simulation, 2021, 95, 105592.	1.7	4
17	Solving a reaction-diffusion system with chemotaxis and non-local terms using Generalized Finite Difference Method. Study of the convergence. Journal of Computational and Applied Mathematics, 2021, 389, 113325.	1.1	4
18	A Note on a Meshless Method for Fractional Laplacian at Arbitrary Irregular Meshes. Mathematics, 2021, 9, 2843.	1.1	4

#	ARTICLE	IF	CITATIONS
19	On a fully parabolic chemotaxis system with nonlocal growth term. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2021, 213, 112518.	0.6	3
20	Numerical Solutions to Wave Propagation and Heat Transfer Non-Linear PDEs by Using a Meshless Method. <i>Mathematics</i> , 2022, 10, 332.	1.1	3
21	Uniform asymptotic behavior of numerical solutions for a predator-prey system with diffusion and chemotaxis. <i>Engineering Analysis With Boundary Elements</i> , 2020, 120, 82-94.	2.0	2
22	On the convergence of the generalized finite difference method for solving a chemotaxis system with no chemical diffusion. <i>Computational Particle Mechanics</i> , 2021, 8, 625-636.	1.5	2
23	Solving Eikonal equation in 2D and 3D by generalized finite difference method. <i>Computational and Mathematical Methods</i> , 2021, 3, e1203.	0.3	0
24	Dynamics in a Chemotaxis Model with Periodic Source. <i>Mathematics</i> , 2022, 10, 312.	1.1	0