Antonio M Vargas

List of Publications by Year
in descending order

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	Finite difference method for solving fractional differential equations at irregular meshes. Mathematics and Computers in Simulation, 2022, 193, 204-216.	2.4	38
2	Numerical Solutions to Wave Propagation and Heat Transfer Non-Linear PDEs by Using a Meshless Method. Mathematics, 2022, 10, 332.	1.1	3
3	Dynamics in a Chemotaxis Model with Periodic Source. Mathematics, 2022, 10, 312.	1.1	0
4	A Novel Spatio-Temporal Fully Meshless Method for Parabolic PDEs. Mathematics, 2022, 10, 1870.	1.1	5
5	On the convergence of the generalized finite difference method for solving a chemotaxis system with no chemical diffusion. Computational Particle Mechanics, 2021, 8, 625-636.	1.5	2
6	Convergence and numerical simulations of prey-predator interactions via a meshless method. Applied Numerical Mathematics, 2021, 161, 333-347.	1.2	5
7	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
8	Solving Monge-AmpÃ¨re equation in 2D and 3D by Generalized Finite Difference Method. Engineering Analysis With Boundary Elements, 2021, 124, 52-63.	2.0	6
9	Convergence and Numerical Solution of a Model for Tumor Growth. Mathematics, 2021, 9, 1355.	1.1	5
10	Solving a reactionâ€“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
11	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
12	On a fully parabolic chemotaxis system with nonlocal growth term. Nonlinear Analysis: Theory, Methods & Applications, 2021, 213, 112518.	0.6	3
13	Solving Eikonal equation in 2D and 3D by generalized finite difference method. Computational and Mathematical Methods, 2021, 3, e1203.	0.3	0
14	A Note on a Meshless Method for Fractional Laplacian at Arbitrary Irregular Meshes. Mathematics, 2021, 9, 2843.	1.1	4
15	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
16	Non-linear Fokker-Planck equation solved with generalized finite differences in 2D and 3D. Applied Mathematics and Computation, 2020, 368, 124801.	1.4	11
17	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
18	Uniform asymptotic behavior of numerical solutions for a predator-prey system with diffusion and chemotaxis. Engineering Analysis With Boundary Elements, 2020, 120, 82-94.	2.0	2

#	Article	IF	Citations
19	Complex Ginzburgâ€“Landau Equation with Generalized Finite Differences. Mathematics, 2020, 8, 2248.	1.1	4
20	Solving a chemotaxisâ€“haptotaxis system in 2D using Generalized Finite Difference Method. Computers and Mathematics With Applications, 2020, 80, 762-777.	1.4	15
21	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
22	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
23	A note on a periodic Parabolic-ODE chemotaxis system. Applied Mathematics Letters, 2020, 106, 106351.	1.5	9
24	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