

Morteza Bisheh-Niasar

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EDUCATION

University of Sistan and Baluchestan

Ph.D. in Applied Mathematics

Supervisor :Prof. Ali Reza Soheili (Ferdowsi university of Mashhad)

University of Sistan and Baluchestan

M.Sc. in Applied Mathematics

Supervisor : Prof. A li Reza Soheili (Ferdowsi university of Mashhad)

University of Kashan

B.S c. in Applied Mathematics

TEACHING EXPERIENCE

Calculus I

Calculus II

Ordinary Differential Equations

Numerical Analysis

Numerical Methods for Ordinary Differential Equations

Engineering Mathematics

Publications and Papers

Papers:

- 1- M. B. Niasar, Ali Reza Soheili, A Weak Order Stochastic Runge-Kutta method, Applied Mathematics Sciences, Vol(1),2007,pages:1613-1622.
- 2- Ali Reza Soheili, M.B. Niasar, M. Arezomandan, Approximation of Stochastic Parabolic Differential Equations with Two Different Finite Difference Schemes, Bulletin of the Iranian Mathematical Society, Vol(37),2011-Pages:57-80.
- 3- M. bisheh-Niasar , A. R. Soheili, Approximation of stochastic advection-diffusion equation using compact finite difference technique, Iranian Journal of Science & Technology, Transaction A, Vol. 37,No. 3,pp. 327-333,2013.
- 4- M. Bisheh-Niasar, S. Salahshour, A. Ahmadian, F. Ismail, D.Baleanu, An Accurate Approximate-Analytical Technique for Solving Time-Fractional Partial Differential Equations, Complexity, vol (2017),2017, pp 1-12.
- 5- M Bisheh-Niasar , A Saadatmandi , M Akrami Arani, A new family of high-order difference schemes for the solution of second order boundary value problems, Iranian Journal of Mathematical Chemistry, Vol. 9,No. 3,pp. 187-199,2018.
- 6- Morteza Bisheh-Niasar ,& Abbas Saadatmandi, Some novel Newton-type methods for solving nonlinear equations, Boletim da Sociedade Paranaense de Matemática, Vol. 38,No. 3,pp. 111-123,2017.

- 7- M Bisheh-Niasar , M Arab Ameri, Moving Mesh Non-standard Finite Difference Method for Non-linear Heat Transfer in a Thin Finite Rod, Journal of Applied and Computational Mechanics, Vol. 4,No. 3,pp. 161-166,2018.
- 8- R Gharechahi , M Arab Ameri , M Bisheh-Niasar, High Order Compact Finite Difference Schemes for Solving Bratu-Type Equations, Journal of Applied and Computational Mechanics, Vol. 5,No. 1,pp. 91-102,2019.
- 9- Morteza Bisheh-Niasar , Krzysztof Gdawiec, Bisheh-Niasar–Saadatmandi root finding method via the S-iteration with periodic parameters and its polynomiography, Mathematics and Computers in Simulation, Vol. 160,pp. 1-12,2019.
- 10- M. Bisheh Niasar,A Computational Method for Solving the Lane-Emden Initial Value Problems,Computational Methods for Differential Equations,pp. (Accepted),2019.

Conference Paper:

- 1- M. Bisheh Niasar , M. H. Hossein pour , M. Arab ,An explicit compact finite difference scheme for burger equation ,7th international seminar of numerical analysis and its applications ,Kerman ,2018.
- 2- Morteza Bisheh Niasar ,Two new nonstandard finite difference schemes for bratu problem ,48th annual iranian mathematics conference ,Hamedan ,2017.
- 3- M. Bisheh Niasar , M Akrami Arani ,A non-standard finite difference scheme for burgers-fisher equation ,13th international seminar on differential equations dynamical systems and applications ,Isfahan ,2016.
- 4- Morteza Bisheh Niasar ,A non standard finite difference method for a biological system ,7th national conference on mathematics ,Tabriz ,2015.
- 5- Morteza Bisheh Niasar ,A non standard finite difference method for HIV infection of CD4+T cells model ,46th annual irannian mathematics conference ,Yazd ,2015.