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Assistant Professor

College: Faculty of Mathematics

Department: Applied Mathematics

Education

Degree	Graduated in	Major	University
BSc		Applied Mathematics	University of Kashan
MSc		Applied Mathematics-Numerical Analysis	Sistan&Baluchestan University
Doctoral		Applied Mathematics-Numerical Analysis	Sistan&Baluchestan University

Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
University of Kashan	Faculty member	Tenure Track	Full Time	10

Papers in Conferences

- مرتضی بیشه نیاسر، سعیده خضیراوی، یک روش بلوکی هیبریدی با شبکه غیریکنواخت برای مسائل اشفته تکین، ۵۴، ۲۳ ۰۸ ۲۰۲۳، زنجان، ۱ - زنجان، ۲۳ ۰۸ ۲۰۲۳ . امین کنفرانس ریاضی ایران، ۱ - زنجان، ۲۳ ۰۸ ۲۰۲۳ .
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- 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.
- Morteza Bisheh Niasar ,Two new nonstandard finite difference schemes for bratu problem ,48th annual iranian mathematics conference ,Hamedan ,2017.
- 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.
- Morteza Bisheh Niasar ,A non standard finite difference method for a biological system ,7th national conference on mathematics ,Tabriz ,2015.
- Morteza Bisheh Niasar ,A non standard finite difference method for HIV infection of CD4+T cells

Papers in Journals

1. مرتضی بیشه نیاسر، تولید طرح‌های متقارن با استفاده از دستگاه دینامیکی گسسته، نشریه ریاضی و ISC، جامعه، ۱۳/۰۵/۱۴۰۳.
2. مرتضی بیشه نیاسر، سعیده خضیراوی، هیگینیو راموس، An optimized hybrid block method for solving nonlinear singularly perturbed problems using non-uniform Jain-type meshes, International Journal of Computer Mathematics, 2024 06 30, SCOPUS ,JCR.
3. مرتضی بیشه نیاسر و علیرضا مهدی پور، یک روش بلوکی هیبریدی شبکه تطبیقی برای حل معادلات دیفرانسیل آشفتة تکین غیرخطی، مجله محاسبات نرم، ۳۱-شهریور ۱۴۰۲.
4. R. Gharechahi, M. Arabameri, M. Bisheh و Niasar. Numerical Solution of Fractional Bratu's Initial Value Problem Using Compact Finite Difference Scheme. Progress in Fractional Differentiation and Applications. ۲۰۲۱.
5. Morteza Bisheh , Niasar , , Higinio Ramos, A computational block method with \square ve hybrid-points for differential equations containing a piecewise constant delay, Differential Equations and dynamical systems, 2023 01 02.
6. Morteza Bisheh , & Niasar, The Effect of the Caputo Fractional Derivative on Polynomiography, Mathematics Interdisciplinary Research, 2022 12 11.
7. 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.
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. M. Bisheh Niasar, A Computational Method for Solving the Lane-Emden Initial Value Problems, Computational Methods for Differential Equations, pp. (Accepted), 2019.
10. 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. 3, No. 9, pp. 187-199, 2018.
11. 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.
12. 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.
13. 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.
14. A. R. Soheili , M. Bisheh Niasar , M. Arezoomandan, APPROXIMATION OF STOCHASTIC PARABOLIC DIFFERENTIAL EQUATIONS WITH TWO DIFFERENT FINITE DIFFERENCE SCHEMES, Bulletin of the Iranian Mathematical Society, Vol. 37, No. 2, pp. 61-83, 2011.