Dr. Behzad Ghanbari

Assistant Professor in Applied Mathematics,

Department of engineering science,
Kermanshah university of Technology.
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Personal Information:

Date of Birth: August 26, 1984
Place of Birth: Kermanshah, Iran

University Education:

Ph. D: Applied Mathematics (Numerical Analysis), University of Guilan, (2008-2012)
M. Sc: Applied Mathematics (Numerical Analysis), University of Guilan, (2006-2008)
B. Sc: Pure Mathematics, University of Kurdistan, (2002- 2006)
Research fellowshipat **CMIT**Group,**University of Liverpool**, **U**nited **K**ingdom (Sep. 2011-Apr.2012)

Interest Area of Research:

Numerical Analysis
Exact Solutions of Nonlinear PDEs
Numeric and Analytic Methods
Computational Mathematics
Numerical Linear Algebra
PDE-Based Image Processing

Honors:

Distinguished Young Researcher for Year 2010 in Gilan province.
Ranked **First** among all participants of Applied Mathematics in PhD exam in 2008.

Publications:

No.	Title	Year
51	*M. S. Osman, Behzad Ghanbari, J. A. T. Machado, New complex waves in nonlinear optics based on the complex Ginzburg-Landau equation with Kerr law nonlinearity, The European Physical Journal Plus*	2019
50	*B Ghanbari, F Gomez, Optical soliton solutions of the Ginzburg-Landau equation with conformable conformable derivative and Kerr law nonlinearity, Revista Mexicana de Física 65 (1), 73-81*	2019
49	*B Ghanbari, D Baleanu, MA Qurashi, New Exact Solutions of the Generalized Benjamin–Bona–Mahony Equation, Symmetry 11 (1), 1-12*	2018
48	*MS Osman, B Ghanbari, New optical solitary wave solutions of Fokas-Lenells equation in presence of perturbation terms by a novel approach, Optik 175, 328-333*	2018
47	*B Ghanbari, JF Gómez-Aguilar, Modeling the dynamics of nutrient–phytoplankton–zooplankton system with variable-order fractional derivatives, Chaos, Solitons & Fractals 116, 114-120*	2018
46	*Behzad Ghanbari, Abdullahi Yusuf, M. Inc, Dark optical solitons and modulation instability analysis of nonlinear Schrodinger equation with higher order dispersion and cubic-quintic nonlinearity, Journal of Coupled Systems and Multiscale Dynamics 6 (3), 217-227*	2018
45	*B Ghanbari, M. Inc, A new generalized exponential rational function method to find exact special solutions for the resonance nonlinear Schrödinger equation, The European Physical Journal Plus 133 (4), 142*	2018
44	*F Parvaneh, B Ghanbari, A Third Order Method for Solving Nonlinear Equations, Chiag Mai journal of science 44 (3), 1154-1162*	2017
43	*B Ghanbari, An Analytical Study for (2+1), The Scientific World Journal 2014*	2014
42	*B Ghanbari, On the Convergence of the Homotopy Analysis Method for Solving Fredholm Integral Equations, Walailak Journal of Science and Technology (WJST) 10 (4), 395-403.*	2014
41	*B Ghanbari, The convergence study of the homotopy analysis method for solving nonlinear Volterra-Fredholm integrodifferential equations, The Scientific World Journal 2014*	2014
40	*MH Matin, B Ghanbari, Effects of Brownian motion and thermophoresis on the mixed convection of nanofluid in a porous channel including flow reversal, Transport in porous media 101 (1), 115-136*	2014

39	*L Rada, K Chen, A Restarted Iterative Homotopy Analysis Method for Two Nonlinear Models from Image Processing, International Journal of Computer Mathematics, 1-31*	2013
38	*L Rada, K Chen, B Ghanbari, A restarted iterative homotopy analysis method for three-dimensional image segmentation, Image Processing Theory, Tools and Applications (IPTA)*	2012
37	*B Ghanbari, A New Family of Nonlinear Fifth-Order Solvers for Finding Simple Roots Applied Mathematics 3 (6), 577-580*	2012
36	*J Biazar, B Ghanbari, HAM solution of some initial value problems arising in heat radiation equations, Journal of King Saud University-Science 24 (2), 161-165*	2012
35	*B. Ghanbari, Three-Step Iterative Methods with Sixth-Order Convergence for Solving Nonlinear Equations, Walailak Journal of Science and Technology (WJST) 9 (3), 249-253*	2012
34	*B. Ghanbari, A New Analytical Technique to Solve Some Equations Involving Trigonometric Nonlinearities, Walailak Journal of Science and Technology (WJST) 9 (2), 147-152*	2012
33	*B. Ghanbari, A General Family of Fifth-Order Methods for Finding Simple Roots of Nonlinear Equations, Walailak Journal of Science and Technology (WJST) 9 (2), 141-145*	2012
32	*J Biazar, B Ghanbari, The homotopy perturbation method for solving neutral functional–differential equations with proportional delays, Journal of King Saud University-Science 24 (1), 33-37*	2012
31	*B. Ghanbari, Some new families of fifth-order methods for finding simple zeros of non-linear equations, Journal of Mathematical and Computational Science 1 (1)*	2012
30	*J Biazar, B Ghanbari, Some Higher-Order Families of Methods for Finding Simple Roots of Nonlinear Equations, Gen 7 (1), 25-32*	2011
29	*MG Porshokouhi, B Ghanbari, Application of He's variational iteration method for solution of the family of Kuramoto–Sivashinsky equations, Journal of King Saud University-Science 23 (4), 407-411*	2011
27	*B. Ghanbari, A new general fourth-order family of methods for finding simple roots of nonlinear equations, Journal of King Saud University-Science 23 (4), 395-398*	2011
27	*J. Biazar, B. Ghanbari, A New Analytical Approach for Solving Nonlinear Boundary Value Problems in Finite Domains, Applied Mathematics 2 (8), 987-992*	2011
26	*J Biazar, B Ghanbari, Notes on An improvement to homotopy perturbation method for solving system of linear equations, Computers & Mathematics with Applications 61 (6), 1704*	2011
25	*B Rahimi, B Ghanbari, MG Porshokouhi, Some Third-Order Modifications of Newton's Method*	2011

	Gen 3 (1), 116-123	
24	*J Biazar, B Ghanbari, MG Porshokouhi, MG Porshokouhi, He's homotopy perturbation method: A strongly promising method for solving non-linear systems of the mixed Volterra–Fredholm integral equations, Computers & Mathematics with Applications 61 (4), 1016-1023*	2011
23	*J Biazar, M Gholami Porshokouhi, B Ghanbari, M Gholami Porshokouhi, Numerical solution of functional integral equations by the variational iteration method Journal of computational and applied mathematics 235 (8), 2581-2585*	2011
22	*B Ghanbari, B Rahimi, MG Porshokouhi, A Three-Parameter Third-Order Family of Methods for Solving Nonlinear Equations, Gen 2 (2), 1-6*	2011
20	*MG Porshokouhi, B Ghanbari, M Rashidi, Variational Iteration Method for Solving Volterra and Fredholm Integral Equations of the Second Kind, Gen 2 (1), 143-148*	2011
19	*B Ghanbari, MG Porshokouhi, An Analytic Approach for Some Equations Arising in Heat Transfer in a Quiescent Medium with Exponential Nonlinearities, Gen 2 (1), 221-231*	2011
18	*MG Porshokouhi, B Ghanbari, B Rahimi, Numerical Solution for Non-Linear Fredholm Integral Equations by Newton–Kantorovich Method and Comparison with HPM and ADM, Int. J. Pure Appl. Sci. Technol 3 (1), 44-49*	2011
17	*MG Porshokouhi, B Ghanbari, B Rahimi, A New Third-order Family of Methods for Simple Roots of Nonlinear Equations, Int. J. Pure Appl. Sci. Technol 3 (2), 121-127*	2011
16	*B Ghanbari, MG Porshokouhi, B Rahimi, A New Class of Third-Order Methods for Multiple Zeros, Int. J. Pure Appl. Sci. Technol 3 (2), 65-71*	2011
15	*B Ghanbari, MD Porshokouhi, B Rahimi, A Numerical Method for Solving Systems of Nonlinear ODE's, Int. J. Pure Appl. Sci. Technol 3 (1), 27-34*	2011
14	*MG Porshokouhi, B Ghanbari, M Gholami, M Rashidi, Numerical Solution of Eighth Order Boundary Value Problems with Variational Iteration Method, Gen 2 (1), 128-133*	2011
12	*G Porshokouhi, B Ghanbari, M Gholami, M Rashidi, Approximate Solution of Convection-Diffusion Equation by the Homotopy Perturbation Method, Gen 1 (2), 105-111*	2010
11	*MG Porshokouhi, B Ghanbari, M Gholami, M Rashidi, Application of the Variational Iteration Method for Solving Differential-Difference Equations, Gen 1 (2), 133-137*	2010
10	*MG Porshokouhi, B Ghanbari, M Gholami, He's Variational Iteration Method for Solving Differential Equations of the Fifth Order, Gen 1 (2), 148-153*	2010
9	*B Ghanbari, MG Porshokuhi, A New Method for Solving Nonlinear BVPs, Gen 1 (2), 138-147*	2010

8	*B. Ghanbari, Erratum to "Approximate explicit solutions of nonlinear BBMB equations by homotopy analysis method and comparison with the exact solution"[Phys. Lett. A 368 (2007) 64] Physics Letters A 374, 3099-3100*	2010
7	*J Biazar, B Ghanbari, A new third-order family of nonlinear solvers for multiple roots, Computers & Mathematics with Applications 59 (10), 3315-3319*	2010
6	*J Biazar, M Gholami Porshokuhi, B Ghanbari, Extracting a general iterative method from an Adomian decomposition method and comparing it to the variational iteration method, Computers & mathematics with applications 59 (2), 622-628*	2010
5	*J Biazar, B Ghanbari, A general fourth-order family of methods for solving nonlinear equations Proceedings of the 11th WSEAS international conference on Mathematical and ...*	2009
4	*J Biazar, B Ghanbary, A modification on Newton's method for solving systems of non-linear equations, World Academy of Science, Engineering and Technology 58, 897-901*	2009
3	*J Biazar, B Ghanbary, A New Technique for Solving Systems of Nonlinear Equations, Applied Mathematical Sciences 2 (55), 2699-2703*	2008
2	*J Biazar, B Ghanbary, A New Approach for Solving Systems of Nonlinear Equations, International Mathematical Forum 3 (38), 1885-1889*	2008
1	*J Biazar, B Ghanbary, A New Computational Approach for Nonlinear Equations, International Mathematical Forum 3 (20), 955-960*	2008