Curriculum Vitae

1- Personal Information

Name: Mohammad Reza Yaghouti Bijarkani

Sex: Male

Date of Birth: September 20th, 1975

Nationality: Iranian

Marital Status: Married

Address: University of Guilan, Faculty of Mathematical Sciences.
E-mail: yaghoti_amirkabir@yahoo.com yaghouti@guilan.ac.ir

2- Qualifications

2002-2009 Ph.D students, Applied Mathematic (Amirkabir University, Tehran, Iran)

2000-2002 M.Sc., Applied Mathematic (Amirkabir University, Tehran, Iran)

1994-1999 B.Sc., Applied Mathematic (Guilan University, Rasht, Iran)

3- Languages

Persian and English with some extant;

4-Teaching experiences

- Linear Programming(B.Sc)
- Maple software(B.Sc)
- Basic Mathematics1 & 2(B.Sc)
- Numerical Analysis(B.Sc)
- Numerical Linear Algebra(B.Sc)
- Ordinary Differential Equations(B.Sc)
- Probability(B.Sc)
- Advanced Numerical Analysis(M.Sc)
- Numerical Solution of Partial Differential Equations(M.Sc)
- Numerical Solution of Ordinary Differential Equations(M.Sc)
- Calculus of Variations (M.Sc)
- Numerical Methods in Linear Algebra(M.Sc)
- Elementary Stochastic calculus(PhD)
- Stochastic Differential Equations(PhD)

5- Supervisors

1- Full Professor H. Adibi
E-mail: adibih@aut.ac.ir
Address: Mathematic Faculty,
Amirkabir University,
Tehran, Iran

2- Full Professor Fraydoun Rezakhanlou
Address: Berkeley University,
U.S.A

6- Published

Coagulation, diffusion and the continuous Smoluchowski"s equation. Mohammad Reza Yaghouti, Fraydoun Rezakhanlou, Alan Hammond. Stochastic Processes and their Application, (119), 3042-3080, (2009). (ISI)

On Solving the Homogeneous Smoluchowski"s Equation Utilizing Adomian"sDecomposition Method. Mohammad Reza Yaghouti, Hojattolah Adibi, Saeid Ketabchi. Amirkabir University Journal. (20), 67- 71, (2009).

Homotopy Perturbation Method for Homogeneous Smolochowski"s Equation. Jafar Biazar, Zainab Ayati, Mohammad Reza Yaghouti. Numerical Methods for Partial Differential Equations Journal. (26), 1146-1153, (2010). (ISI)

A Numerical Method for Solving a System of Volterra Integral Equations. Mohammad Reza Yaghouti, World Applied Programming, (2), 18-33, (2012).

Numerical Solution of a Family of Fractional Differential Equations by Use of RBF Method. Mohammad Reza Yaghouti, Maral Mazjini, Ali Zabihi, World Applied Programming, (2), 88-96, (2012).

A Numerical Approach of a Family of Smoluchowski's Equations by Use of Adomian Decomposition Method. Mohammad Reza Yaghouti, Marzie Malzoumati, Haman Deilami. The Journal of Mathematics and Computer Science. (4), 514-522, (2012).

Numerical Solution of Singular Differential-Difference Equations. Mohammad Reza Yaghouti, Haman Deilami. World Applied Programming, (3), 182-189, (2013).

Application of Laplace Decomposition Method for Burger's-Huxley and Burger's-Fisher Equations. Mohammad Reza Yaghouti, Ali Zabihi. Journal of Mathematical Modeling. (1), 41-67, (2013).

Determining optimal value of the shape parameter c in RBF for unequal distances topographical points by Cross-Validation algorithm. Mohammad Reza Yaghouti, Habibe Ramezannezhad Azarboni. Journal of Mathematical Modeling. (5), 53-60, (2017).

A new method based on fourth kind Chebyshev wavelets to a fractional-order model of HIV infection of CD4+T cells. Haman Deilami Azodi, Mohammad Reza Yaghouti. Computational Methods for Differential Equations. 6(3), 353-371, (2018)(ISI).

Bernoulli polynomials collocation for weakly singular Volterra integro-differential equations of fractional order. Haman Deilami Azodi, Mohammad Reza Yaghouti. Filomat. 32(10). 3623- 3635, (2018)(ISI).

Long-Term Adaptive Symplectic Numerical Integration of Linear Stochastic Oscillators Driven by Additive White Noise.Marzieh Malzoumati-Khiaban, Ali Foroush Bastani, Mohammad Reza Yaghouti. Numerical Algorithms. 80(3). 1059–1095, (2019)(ISI).

Leave-Two-Out Cross Validation to Optimal Shape Parameter in Radial Basis Functions. Habibe Ramezannezhad Azarboni, Mohammad Keyanpour, Mohammad Reza Yaghouti. Engineering Analysis with Boundary Elements. 100. 204-210, (2019)(ISI).

Some Results On Reflected Forward-Backward Stochastic Differential Equations. Zahra Poursepahi Samian, Mohammad Reza Yaghouti, Computational Methods for Differential Equations. 8(2). 1-13, (2020)(ISI).

European option under a skew version of the GBM model with transaction costs by an RBF method. Farnaz Farshadmoghadam, Ali Reza Najafi, Mohammad Reza Yaghouti, Journal of Statistical Computation and Simulation. 91(14). 2986-3004, (2021)(ISI).

An improved radial basis functions method for the high-order Volterra-Fredholm integro-differential equations. Farnaz Farshadmoghadam, Haman Deilami Azodi, Mohammad Reza Yaghouti. Mathematical Sciences. 15(3). (2021)(ISI).

Choosing the best value of shape parameter in radial basis functions by leave-P-out cross validation. Mohammad Reza Yaghouti, Farnaz Farshadmoghadam, Computational Methods for Differential Equations. (2022)(ISI). 11(1), 108-129, (2023)(ISI).

An efficient alternative kernel of Gaussian radial basis function for solving non-linear integro-differential equations, Farnaz Farshadmoghadam , Haman Deilami Azodi, Mohammad Reza Yaghouti, Iranian Journal of Science and Technology, Transactions A: Science. 46, 869–881, (2022)(ISI).

A convergent wavelet-based method for solving linear stochastic differential equations included 1D and 2D noise. Nasim Madah Shariati, Mohammadreza Yaghouti, Amjad Alipanah. Journal of Statistical Computation and Simulation. 93(5), 837-861, (2022)(ISI).

یک روش عددی بر مبنای ماتریس عملیاتی انتگرال کسری تابع مقیاس موجک دابیشز برای حل دسته‌ای از معادلات دیفرانسیل کسری. نسیم مداح شریعتی، محمدرضا یاقوتی. مجله موجک و جبر خطی. ۹(۲)، ۱۰۵-۱۲۵، (۱۴۰۱)(علمی پژوهشی).

On solving some stochastic delay differential equations by Daubechies wavelet. Nasim Madah Shariati, Mohammadreza Yaghouti, Amjad Alipanah. Journal of Statistical Computation and Simulation. 94(7), 1445-1461, (2024)(ISI).

An operational matrix method based on scaling function of Daubechies wavelet to solve fractional differential equations. Nasim Madah Shariati, Mohammadreza Yaghouti, Amjad Alipanah. Applied Mathematics-A Journal of Chinese Universities. Accepted (Online 2026-2027)