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Mohammad Taghi Darvishi
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PERSONAL DATA

Born April 9, 1965 in Kermanshah, Iran.

EDUCATION

Ph.D. In Applied Mathematics, Numerical Analysis.
Sep. 1999, Kharazmi University(Tehran Teacher Training University), Tehran, Iran.
Major Field: Numerical Solution of Partial Differential Equations.
Second field: Numerical Methods in Linear Algebra.
Third Field: Linear Programming.
Advisor: Dr. Esmail Babolian.

M.S. In Applied Mathematics, Numerical Analysis.
Feb. 1993, Kharazmi University (Tehran Teacher Training University), Tehran, Iran.
Advisor: Dr. Esmail Babolian.

B.S. In Applied Mathematics.
Feb. 1990, Shiraz University, Shiraz, Iran.

Sabbatical Leave Oct. 2007–Sep. 2008, Chonnam National University, South Korea.

Sabbatical Leave Nov. 2023–Aug. 2024, Kent State University, Kent, Ohio 44242, United States of America.

PROFESSIONAL EXPERIENCE

Professor, Jun. 2010–present, Razi University, Kermanshah, Iran.

Associate Professor, Jun. 2005–Jun. 2010, Razi University, Kermanshah, Iran.

Assistant Professor, Sep. 1999–Jun. 2005, Razi University, Kermanshah, Iran.

Lecturer, Jun. 1993–Sep. 1999, Razi University, Kermanshah, Iran.

FIELDS IN INTEREST

Numerical Solution of Partial Differential Equations, Numerical Methods in Linear Algebra, Numerical Solution of Ordinary Differential Equations, Numerical Simulation, Optimization.

PROFESSIONAL ACTIVITIES

1. Head of Mathematics Department, Razi University, Kermanshah, Iran (Jun. 2001–Aug. 2007).
2. Member of editorial board of *International Journal of Pure and Applied Physics*, India (2004–present).
3. Reviewer of Mathematical Review (2009–present).

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Iranian Mathematical Society

LIST OF PUBLICATIONS

1. M.T. Darvishi, S. Kheybari, Y. Salehi, F. Alizadeh, K. Hosseini, A hybrid Collocation-Least Squares Scheme for the Accurate Integration of Stiff ODEs, *Mathematical and Computational Sciences*, (accepted for publication).
2. S. Kheybari, F. Alizadeh, M.T. Darvishi, E. Hincal, K. Hosseini, An Efficient Spectral Technique Based on Operational Matrices to Solve

Variable Coefficients Time-Space Fractional Advection-Diffusion Equations, *International Journal of Modeling, Simulation, and Scientific Computing*, (accepted for publication).

3. N. Al-Hajri, M.T. Darvishi, S. Noschese, L. Reichel, A note on short-range network communication and clustering, *Mathematics*, (2026), Vol. **14**, No. **17**, Article: 3143.
4. F. Alizadeh, M.T. Darvishi, S. Kheybari, K. Hosseini, H. Almutairi, Hybrid Analytical-Numerical Investigation of the Bratu Equation with Emphasis on Convergence, *International Journal of Modeling, Simulation, and Scientific Computing*, (2026), Vol. **17**, No. **1**, Article: 2550074.
5. S. Kheybari, F. Alizadeh, M.T. Darvishi, K. Hosseini, Hybrid Fourier Series and Weighted Residual Function Method for Caputo-type Fractional PDEs with Variable Coefficients, *Fractal and fractional*, (2025), Vol. **9**, Issue **12**, Article: 765.
6. M. Alibrahim, M.T. Darvishi, L. Reichel, M.M. Spalević, Error Estimators for a Krylov Subspace Iterative Method for Solving Linear Systems of Equations with a Symmetric Indefinite Matrix, *Axioms*, (2025), Vol. **14**, No. **3**, Article:179.
7. S. Kheybari, M.T. Darvishi, F. Alizadeh, E. Hincal, K. Hosseini, Xiaoyou Chen, Solving Multi-Point Boundary Value Differential Equations with a Novel Semi-Analytical Algorithm, *International J. of Computational Methods*, (2025), Article: 2450086.
8. S. Kheybari, M.T. Darvishi, F. Alizadeh, S.M. Boulaaras, K. Hosseini, A modified scheme to the multiple shooting method for BVPs, *Alexandria Engineering Journal*, (2025), 118, 649–663.
9. S. Kheybari, F. Alizadeh, M.T. Darvishi, K. Hosseini, A Fourier Series Technique for Approximate Solutions of Modified Anomalous Time-Fractional Sub-Diffusion Equations, *Fractal and fractional*, (2024) Vol. **8**, Issue **12**, Article:718.

10. L. Akinyemi, P. Veerasha, M.T. Darvishi, H. Rezazadeh, M. Şenol, U. Akpan, A novel approach to study generalized coupled cubic Schrodinger, Korteweg-de Vries equation, *J. of Ocean Engineering and Science*, (2024) Vol. **9**, no. **1**, 13–24.
11. M.T. Darvishi, Mohammad Najafi, H. Rezazadeh, S. Rezapour, M. Inc, Some novel different solutions for Boussinesq-type models including bright, singular, and dark soliton ones, *Revista Mexicana de Fisica*, (2024) Vol. **70**, Article:031306.
12. L.I. Zaidan, M.T. Darvishi, S.M. Abood, M. Najafi, S. Al-Bairmani, New Gaussons and traveling wave solutions for fractional nonlinear logarithmic models, *Optik, International Journal for Light and Electron Optics*, (2024) Vol. **310**, Article:171884.
13. S. Kheybari, F. Alizadeh, M.T. Darvishi, K. Hosseini, E. Hincal, A novel semi-analytical scheme to deal with fractional PDEs of variable-order, *Fractal and fractional*, (2024) Vol. **8**, Issue **7**, Article: 425.
14. M.T. Darvishi, M. Najafi, A.M. Wazwaz, New Gaussian solitary wave solutions in nanofibers, *Waves in Random and Complex Media*, (2024) Vol. **34**, no. **4**, 3208–3220.
15. H. Darvishi, M.T. Darvishi, An analytical study on two high order hybrid methods to solve systems of nonlinear equations, *Journal of Mathematics*, (2023), Vol. **2023**, Article: 9917774.
16. M.T. Darvishi, Mohammad Najafi, Lanre Akinyemi, Hadi Rezazadeh, Gaussons of some new nonlinear logarithmic equations, *Journal of Non-linear Optical Physics & Materials*, (2023) Vol. **32**, no. **2**, Article: 2350013.
17. M. T. Darvishi, Mohammad Najafi, Somayeh Baloch Arbabi, Hadi Rezazadeh, Ahmet Bekir, New extensions of (2+1)-dimensional BLMP models with soliton solutions, *Optical and Quantum Electronics*, (2023) Vol. **55**, Article: 568.

18. L.I. Zaidan, S. Al-Bairmani, M.T. Darvishi, Traveling wave solutions for time-fractional $B(m, n)$ equations, *Romanian Journal of Physics*, (2022) Vol. **67**, no. **5-6**, Article: 111.
19. R.H. Al-Obaidi, M.T. Darvishi, Constructing a class of frozen Jacobian multi-step iterative solvers for systems of nonlinear equations, *Mathematics*, (2022) Vol. **10**, no. **6**, Article: 2952.
20. R.H. Al-Obaidi, M.T. Darvishi, A Comparative Study on Qualification Criteria of Nonlinear Solvers with Introducing some New Ones, *Journal of mathematics*, (2022) Vol. **2022**, Article: 4327913.
21. Dipankar Kumar, Gour Chandra Paul, Aly R. Seadawy, M.T. Darvishi, A variety of novel closed-form soliton solutions to the family of integer and fractional order Boussinesq-like equations, *Journal of Ocean Engineering and Science*, (2022) Vol. **7**, no. **6**, 543–554.
22. M.T. Darvishi, R.H. Al-Obaidi, Akanksha Saxena, Jai Prakash Jaiswal, Kamal Raj Pardasani, An Extension on the Local Convergence for the Multi-Step Seventh Order Method with ψ -Continuity Condition in the Banach Spaces, *Fractal and fractional*, (2022) Vol. **6**, no. **12**, Article: 713.
23. M.T. Darvishi, M. Najafi, A.M. Wazwaz, Some optical soliton solutions of space-time conformable fractional Schrödinger-type models, *Physica Scripta*, (2021) Vol. **96**, no. **2**, Article: 065213.
24. M.T. Darvishi, M. Najafi, A.M. Wazwaz, Conformable space-time fractional nonlinear (1+1)-dimensional Schrödinger-type models and their traveling wave solutions, *Chaos, Solitons and Fractals*, (2021) Vol. **150**, Article: 111187.
25. M.T. Darvishi, M. Najafi, B.-C. Shin, Conformable fractional sense of foam drainage equation and construction of its solutions, *J. Korean Soc. Ind. Appl. Math.*, (2021) Vol. **25**, no. **3**, 132–148.

26. M.T. Darvishi, M. Najafi, A.M. Wazwaz, New extended rational trigonometric methods and applications, *Waves in Random and Complex Media*, (2020) Vol. **30(1)**, 5–26.
27. M.T. Darvishi, M. Najafi, A.M. Wazwaz, Construction of exact solutions in a magneto-electro-elastic circular rod, *Waves in Random and Complex Media*, (2020) Vol. **30(2)**, 340–353.
28. S. Kheybari, M.T. Darvishi, M.S. Hashemi, A semi-analytical approach to Caputo type time-fractional modified anomalous sub-diffusion equations, *Applied Numerical Mathematics*, (2020) Vol. **158**, 103–122.
29. M.T. Darvishi, M. Najafi, Propagation of sech-type solutions for conformable fractional nonlinear Schrödinger models, *Num. Com. Meth. Sci. Eng.*, (2020) Vol. **2(2)**, 35–42.
30. S. Kheybari, M.T. Darvishi, M.S. Hashemi, Numerical simulation for the space-fractional diffusion equations, *Applied Mathematics and Computation*, (2019) Vol. **348**, 58–69.
31. A.R. Amiri, A. Cordero, M.T. Darvishi, J.R. Toregrosso, A fast algorithm to solve systems of nonlinear equations, *Journal of Computational and Applied Mathematics*, (2019) Vol. **354**, 242–258.
32. A.R. Amiri, A. Cordero, M.T. Darvishi, J.R. Toregrosso, Stability analysis of Jacobian-free iterative methods for solving nonlinear systems by using families of m th power divided differences, *Journal of Mathematical Chemistry*, (2019) Vol. **57**, 1344–1373.
33. A.R. Amiri, M.T. Darvishi, A. Cordero, J.R. Toregrosso, An efficient iterative method Based on two-stage splitting methods to solve weakly nonlinear systems, *Mathematics*, (2019) Vol. **7(815)**, 1–17.
34. A.R. Amiri, A. Cordero, M.T. Darvishi, J.R. Toregrosso, Stability analysis of Jacobian-free Newton’s iterative method, *Algorithms*, (2019) Vol. **12(236)**, 1–16.

35. A.R. Amiri, A. Cordero, M.T. Darvishi, J.R. Toregrosso, Stability analysis of a parametric family of seventh-order iterative methods for solving nonlinear systems, *Applied Mathematics and Computation*, (2018) Vol. **323**, 43–57.
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40. M.T. Darvishi, M. Najafi, A.R. Seadawy, Dispersive bright, dark and singular optical soliton solutions in conformable fractional optical fiber Schrödinger models and its applications, *Optical and Quantum Electronics*, (2018) Vol. **50**, no. **4**, Article: 181.
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42. Y. Salehi, M.T. Darvishi, W. Scheisser, Numerical solution of space fractional diffusion equation by the method of lines and splines, *Applied Mathematics and Computation*, 336 (2018) 465–480.

43. M.T. Darvishi, M. Najafi, A.M. Wazwaz, Traveling wave solutions for Boussinesq-like equations with spatial and spatial-temporal dispersion, *Romanian Reports in Physics*, (2018) Vol. **70**, Article: 108.
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45. S. Arbabi, A. Nazari, M.T. Darvishi, A two-dimensional Haar wavelets method for solving systems of PDEs, *Applied Mathematics and Computations*, (2017) Vol. **292**, 33–46.
46. M.T. Darvishi, M. Najafi, A.M. Wazwaz, Soliton solutions for Boussinesq-like equations with spatio-temporal dispersion, *Ocean Engineering*, (2017) Vol. **130**, 228–240.
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51. L.I. Zaidan, M.T. Darvishi, Traveling wave solutions for time-fractional $K(m, n)$ equation, *Optik, International Journal for Light and Electron Optics*, (2017) Vol. **142**, 564–575.

52. M.T. Darvishi, M. Najafi, S. Arbabi, L. Kavitha, Exact propagating multi-anti-kink soliton solutions of a (3+1)-dimensional B-type Kadomtsev-Petviashvili equation, *Nonlinear Dynamics*, (2016) Vol. **83**, 1453–1462. DOI 10.1007/s11071-015-2417-2
53. S. Arbabi, A. Nazari, M.T. Darvishi, A semi-analytical solution of Hunter-Saxton equation, *Optik, International Journal for Light and Electron Optics*, (2016) Vol. **127**, Issue **13**, 5255–5258.
54. M.T. Darvishi, F. Khani, A. Aziz, Numerical investigation for a hyperbolic annular fin with temperature dependent thermal conductivity, *Propulsion and Power Research*, Vol. **5**, no. **1** (2016), 55–62.
55. S. Arbabi, A. Nazari, M.T. Darvishi, A semi-analytical solution of foam drainage equation by Haar wavelets method, *Optik, International Journal for Light and Electron Optics*, (2016) Vol. **127**, Issue **13**, 5443–5447.
56. F. Khani, M.T. Darvishi, R.S.R. Gorla, B.J. Gireesha, Thermal analysis of a fully wet porous radial fin with natural convection and radiation using the spectral collocation method, *Int. J. Applied Mechanics & Engineering*, (2016), Vol. **21**, no. **2**, 377–392.
57. M.T. Darvishi, S. Arbabi, M. Najafi, A.M. Wazwaz, Traveling wave solution of a (2+1)-dimensional Zakharov-like equation by the first integral method and the tanh method, *Optik, International Journal for Light and Electron Optics*, (2016) Vol. **127**, Issue **16**, 6312–6321.
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DOI: 10.1007/s11071-016-2920-0.
61. S. Ahmadian, M.T. Darvishi, New exact traveling wave solutions for space-time fractional (1+1)-dimensional SRLW equation, *Optik, International Journal for Light and Electron Optics*, (2016) Vol. **127**, Issue **22**, 10697–10704.
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DOI: 10.1016/j.ijleo.2016.08.008.
63. M.T. Darvishi, R.S.R. Gorla, F. Khani, B.J. Gireesha, Thermal analysis of natural convection and radiation in a fully wet porous fin, *International Journal of Numerical Methods for Heat & Fluid Flow*, (2016) Vol. **26**, Issue **8**, 2419–2431.
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65. F. Khani, M.T. Darvishi, R. Baghbani, Corrected horizon of Kerr-Sen black hole as a series with terms involve powers of the inverse of the area, *Astrophysics & Space Science*, (2014) Vol. **350**, 275–277.
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PRESENTATIONS

1. Determination of Optimal Values in ASOR Methods, *Proceeding of the 28th Annual Iranian Mathematics Conference*, Tabriz, Iran, 28–31, March, (1997), 129–138.
2. Finding Intervals Containing Optimal Values of Parameters of the AOR method, *17th Biennial Conference on Numerical Analysis, University of Dundee, Scotland, U.K.*, 25–29, June, (1997).

3. Preconditioning and Domain Decomposition Methods to Error Reduction in Computing Derivative of Chebyshev Collocation Method, *The Second Seminar on Numerical Analysis and its Applications*, Imam Hossein University, Iran, 27–28, Jan., (1999), 19–28.
4. Simulation of solidification of casting parts, *The Second Seminar on Numerical Analysis and its Applications*, Imam Hossein University, 27–28, Jan., (1999), 13–18.
5. Error Reduction in Matrix Vector Multiplication Method, *18th Biennial Conference on Numerical Analysis, University of Dundee, Scotland*, U.K., 29 June–2 July, (1999).
6. Pseudoinverse of Matrices and its Applications, *Seminar & 25th Mathematical Competition of University Students, Imam Khomeini International University*, 16–18 May, (2001).
7. New Algorithms for Solving ODEs and PDEs, *19th Biennial Conference on Numerical Analysis, University of Dundee, Scotland*, U.K., 25–29 June, (2001), In Proceedings of the 19th Biennial Conference on Numerical Analysis, University of Dundee, Applied Numerical Mathematics, 43 (2002) 3–7.
8. Three-Dimensional Simulation of solidification of casting parts, *12th International Conference on the Discrete Simulation of Fluid Dynamics, Center for Advanced Mathematical Sciences, American University of Beirut*, Beirut, Lebanon, 24–29 Aug., (2003).
9. A Claim about Distance of Two Points, *34th Iranian Mathematics Conference, Shahrood University of Technology*, Shahrood, Iran, Aug. 30–Sep. 02, (2003).
10. Reduction of round off errors in matrix vector multiplication method by some preconditionings, The 9th International Workshop on Differential Equations, May 29–31, 2008, *Chonnam National University*, Kwangju, Korea.

11. A study on seismic hazard based on artificial neural networks, 21–23 Oct., 2008 Tabriz, Iran.
12. A new preconditioner on Gauss-Seidel method for H-matrices, *International Conference on Numerical Analysis and Applied Mathematics*, 18–22 Sep., Rethymno, Ceret, Greece, (2009), 314–318.
13. Symmetric successive overrelaxation methods to solve some special linear systems, *4th International Conference on Research and Education in Mathematics*, 21–23 Oct., Kuala Lumpur, Malaysia, (2009), 574–581.
14. Application of SVD in compaction of colored digital pictures (in Farsi), Local Seminar of Computer Engineering, Islamic Azad University, Khoi, Iran, Nov. 5–7, 2010.
15. A new analytical investigation for nonlinear business cycle model with time delay, *5th Iranian Conference on Applied Mathematics*, Hamedan, Iran, Sep. 8–10, 2013.
16. New exact traveling wave solutions for space-time fractional (1+1)-dimensional symmetric regularized long wave equation, 47th Annual Iranian Mathematics Conference, Kharazmi University, 28–31 August 2016.
17. Soliton solutions for fractional (1+1)-dimensional Biswas-Milovic equation, 47th Annual Iranian Mathematics Conference, Kharazmi University, 28–31 August 2016.
18. Jacobian-free iterative schemes to solve nonlinear systems, MODELLING FOR ENGINEERING, & HUMAN BEHAVIOUR 2017, Valencia 46022, SPAIN.
19. Stability analysis of Jacobian-free Newton’s iterative method, 18th International Conference on Computational and Mathematical Methods in Science and Engineering, CMMSE 2018 July 9–14, 2018, SPAIN.

M.Sc. Dissertation Direction

1. Rahman Khosro-Aghdam, 2004, Razi University:
“Successive Overrelaxation Methods to Solve Rank Deficient Linear Systems of Equations”
2. Morad Solgi, 2005, Razi University:
“Matrix Vector Multiplication Method in Chebyshev Differentiation”
3. Peyman Hessari, 2005, Razi University:
“Convergence of the Generalized Accelerated Over Relaxation Method”
4. Kulsom Delphan, 2006, Razi University:
“Necessary and Sufficient Criteria for Existence of Least Squares Estimate for a 3-Parametric Exponential Functions.”
5. Ali Mohammad Godarzi, 2006, Razi University:
“Symmetric Modified Accelerated Over Relaxation Methods to Solve Linear Systems of Equations”
6. Farzad Khani, 2006, Razi University:
“Variation Iteration Method and Adomian Decomposition Method for Solving Differential Equations”
7. Somayeh Hamed-Nezhad, 2006, Razi University:
“Symmetric Block Successive Over Relaxation Methods for Rank Deficient Least Squares Problems”
8. Fereshteh Samadi, 2006, Razi University:
“Solution of Fuzzy Linear Systems of Equations.”
9. Reza Mohammad-Zadeh Khani, 2006, Razi University:
“Symmetric Modified Successive Over Relaxation Methods to Solve Linear Systems of Eequations”
10. Niyaz Khorrami, 2006, Kermanshah Islamic Azad University:
“Singular value decomposition and its applications”
11. Rasool Fattahi, 2007, Kermanshah Islamic Azad University:
“Determination of Eeigenvalues of Hermitian Matrices.”

12. Samad Kheybari, 2007, Razi University:
“Linearly Implicit Runge-Kutta Methods for Solving ODEs and PDEs”
13. Fatemeh Ghanbari, 2007, Razi University:
“Using Artificial Neural Networks for Hazard Analysis”.
14. Marjan Ali-Yari, 2007, Razi University:
“A Schur-Newton Method for the Matrix p —th Root and its Inverse”
15. Mehdi Emami-Nasab, 2008, Razi University:
“Research and Comparison Between Numerical Solution Methods of Integro-Differential Equations”
16. Mehdi Jafar-Nezhad, 2008, Razi University:
“A Modified Harmonic Block Arnoldi Algorithm for Large Interior Eigenvalues”
17. Rohollah Daneshmand, 2008, Razi University:
“Generalized Fractal Function Interpolation Cubic Spline”.
18. Davood Agha-mahdi, 2008, Kermanshah Islamic Azad University:
19. Mehran Azimbeigi, 2009, Razi University:
“Preconditioning on Gauss-Seidel Method for Solving Linear Systems”.
20. Farideh Sarabi, 2009, Razi University:
“Improved Newton’s Method with Exact Line Searches to Solve Equation $AX^2 + BX + C = 0$ and its Applications”.
21. Abbas Nezafati, 2010, Razi University:
“2-Block SSOR method to solve Fuzzy Systems”.
22. Teyebah Jamalvandi, 2010, Kermanshah Islamic Azad University:
“A Modified SSOR Iterative Method for Augmented Systems”.
23. Aazam Khedrizadeh, 2010, Kermanshah Islamic Azad University:
“GSSOR-like Method to Solve Augmented Systems”.

24. Somayeh Rezaei, 2011, Razi University:
“Generalized Minimal Residual Method for Solving Systems of Linear Equations”.
25. Mohammad Najafi, 2011, Razi University:
“A Study on Analytic Methods to Solve PDEs”.
26. Sabah Ahmadian, 2011, Razi University:
“A Study on the Singular Values of $A + B$ and $A + iB$ ”.
27. Maryam Amiri, 2011, Razi University:
“Inexact Quasi-Newton Methods for Sparse Systems of Nonlinear Equations”.
28. Khosro Mehrabi, 2012, Razi University:
“GMRES Methods for Least Squares Problems”.
29. Norollah Darvishi, 2012, Razi University:
“SOR-Newton Method for Solving Systems of Nonlinear Equations”.
30. Mohsen Darabi, 2012, Razi University:
“Saddle Point Problems and their Solutions”.
31. Zohreh Rahimi, 2013, Razi University:
“Obtaining Multiple Roots of Polynomials”.
32. Saad Alvahah, 2016, Razi University:
“An Investigation on Numerical Solution of Singular Saddle Point Problems”.
33. Mohammad heshmat Abdolkarim, 2018, Razi University:
“Brain Tumor Detection using Symmetry Technique in Image Processing”.
34. Sadeq Aziz Hussein, 2018, Razi University:
“Numerical Methods to solve Fractional Parabolic Differential Equations”.

35. Doaa Jasem Ahmad, 2020, Razi University:
“Simulation of a Fully Developed Aximmetric Sinusoidal Flow in a Curved Pipe”.
36. Fatemeh Daraei, 2021, Razi University:
“A Hybrid Algorithm of Genetic and Ant Colony Optimization Algorithms to Solve Supplier Selection Problem”.
37. Hadis Mazhari, 2023, Razi University:
“Recognition of road cracks by bat-pigeon algorithm for navigation and speed regulation of autonomous vehicles”.

PhD Thesis Direction

1. Somayeh Arbabi, Shahid Bahonar University, 2016:
“Haar Wavelet Method to Solve Partial Differential Equations”. (Advisor)
2. Sabah Ahmadian, Malayer University, 2017:
“An Investigation on Analytical Methods to Solve Fractional Differential Equations”.
3. Samad Kheybari, Razi University, 2017:
“Multi-Point Boundary Value Problems”.
4. Lahib Ibrahim Zaidan, Razi University, 2017:
“Semi Analytical Solutions for some Fractional Differential Equations”.
5. Younes Salehi, Razi University, 2018:
“Efficient Algorithms for Numerical Solution of Fractional Differential Equations”.
6. Abdolreza Amiri, Razi University, 2019:
“Some Efficient Algorithms to Solve Systems of Nonlinear Equations”.
7. Mohammad Najafi, Razi University, 2020:
“Analytical Methods to find Soliton Solutions for some Partial differential Equations”.

8. Riyadh Hamid AL-Obaidi, Razi University, 2023:
“Analytical and numerical investigations on algorithms to solve non-linear systems”.
9. Hooman Darvishi, Razi University, 2023:
“An analytical study and generalization of SOR-class methods for solving nonlinear systems”.

Written Books (in Farsi)

1. Discrete Mathematics, (with M. Nikokar and S.M. Hosseini).
2. G-inverse of Matrices, (with M. Nikokar).
3. Numerical Computations, 41st edition, (with M. Nikokar).
4. Operations Research (Mathematics), (with M. Nikokar and H. Nasseri).
5. Programming with Matlab, third edition.
6. Operations Research, ‘Modeling’, (with S. Abbasbandy).
7. Mathematics for Computer Science (1), 9th edition (with M. Nikokar and M.H. Pour-Mohammadbagher).
8. Mathematics for Computer Science (2), 4th edition (with M. Nikokar and M.H. Pour-Mohammadbagher).
9. Discrete Mathematics, 4th edition (with M. Nikokar).
10. A Guide to Numerical Computations, 12th edition, (with M. Nikokar).
11. Solution of Multiple Choice Tests in Operations Research of Entrance Exam for MSc. in Management and Accountancy, (with M. Nikokar).
12. Operations Research (Industrial Engineering), (with M. Nikokar).
13. A Guide to Mathematics for Computer Science (1), (with M. Nikokar, M.H. Pour-Mohammadbagher and L. Pour-Mohammadbagher).

14. A Guide to Mathematics for Computer Science (2), (with M. Nikokar, M.H. Pour-Mohammadbagher).
15. Numerical Computations, Text and Problems, (with M. Nikokar).
16. Fundamental of Matrices and Linear Algebra, (with B. Edalatzadeh).
17. Maple, (with B. Ghanbari).
18. Numerical Linear Algebra, second edition, (with B. Edalatzadeh).
19. Graph Theory and Algorithms, (with M. Nikokar).
20. Step by Step Programming with Matlab.

Written Book (in English)

1. Iterative Methods to Solve Linear and Nonlinear Systems, (2010).

Research Projects

1. Solution of Systems of Partial Differential Equations by MOL.
2. Preconditioning and Domain Decomposition Schemes in Pseudo Spectral Methods.
3. Continues Case of Banach Match-Box Problem.
4. Euler Number and Complete Graphs.
5. Simulation of Traffic Lights.
6. SOR methods to solve Systems of Linear Equations.
7. QR-Like Method for Hermitian Eigenvalue Problem.
8. An SVD method for Face Recognition.
9. High-Order Iterative Methods to Solve Systems of Non-Linear Equations.