



CURRICULUM VITAE

Personal Information:

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- Date of Birth : 1978
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Education:

- **B. Sc.** in Applied Mathematics, Sharif University of Technology, Tehran, Iran (1997-2001).

- **M. Sc.** in Applied Mathematics (Field: Control & Optimization), Hakim Sabzevari University, Sabzevar, Iran (2001-2003).

Dissertation:

”To solve some nonlinear programming problems by using measure theory and neural network models”

Supervisor:

Prof. Sohrab Effati

- **Ph.D** in Applied Mathematics (Field: Control & Optimization), Ferdowsi University of Mashhad, Mashhad, Iran (2005-2009).

Dissertation:

”To solve some optimal shape design problems with free boundary”

Supervisor:

Prof. Mohammad Hadi Farahi

Advisor:

Prof. Ali Vahidian Kamyad

Courses Taught:

- Optimal Control,
- Nonlinear Optimization,
- Nonlinear Control,
- Neural Networks & Optimization,
- Approximation Theory,
- Calculus (1-2),
- ODE's,
- PDE's,
- Operations Research (1-2).

Research Interests:

- Optimal Control,
- Nonlinear Optimization,
- Convex Optimization,
- Portfolio Optimization,
- Optimization of PDE's,
- Neural Network Theory,

Publications:

Journal Papers

2023

- 111- M. Jahangiri, A. Nazemi, Utilizing a projection neural network to convex quadratic multi-objective programming problems, International Journal of Adaptive Control and Signal Processing.
- 110- R. Keyshams, A. Nazemi, The admissible portfolio selection problem with transaction costs and a neural network scheme, Filomat.
- 109- F. Kheyriataj, A. Nazemi, M. Mortezaee, Solving time delay fractional optimal control problems via a Gudermannian neural network and convergence results, Network: Computation in Neural Systems.

2022

- 108- F. Talebi, A. Nazemi, A. Abdolbaghi Ataabadi, On uncertain mean-AVaR portfolio selection via an artificial neural network scheme, International Journal of Information Technology & Decision Making.
- 107- A. Abdolbaghi Ataabadi, A. Nazemi, M. Saki, Multi-objective possibility model for selecting the optimal stock portfolio Advances in Mathematical Finance and Applications.
- 106- S. Saghi, A. Nazemi, S. Effati, M. Ranjbar, Simplex algorithm for hesitant fuzzy linear programming problem with hesitant cost coefficient, Iranian Journal of Fuzzy Systems.
- 105- M. Mortezaee, M. Ghovatmand, A. Nazemi, An application of a fuzzy system for solving time delay fractional optimal control problems with Atangana-Baleanu derivative, Optimal Control, Applications and Methods.
- 104- A. Feizi, A. Nazemi, Classifying random variables based on support vector machine and a neural network scheme, Journal of Experimental & Theoretical Artificial Intelligence.
- 103- F. Talebi, A. Nazemi, A. Abdolbaghi Ataabadi, Mean-AVaR in credibilistic portfolio management via an artificial neural network scheme. Journal of Experimental & Theoretical Artificial Intelligence.

- 102- A. Nikseresht, A. Nazemi, A smoothing gradient-based neural network strategy for solving semidefinite programming problems, *INET-Network: Computation in Neural Systems*.
- 101- F. Kheyriataj, A. Nazemi, On delay optimal control problems with a combination of conformable and Caputo-Fabrizio fractional derivatives via a fractional power series neural network, *INET-Network: Computation in Neural Systems*.
- 100- M. Yavari, A. Nazemi, M. Mortezaee, On chaos control of nonlinear fractional chaotic systems via a neural collocation optimization scheme and some applications, *New Astronomy*, 94, 101794.
- 99- A. Tavasoli, Y. Waghei, A. Nazemi, Hybrid MLP-IDW approach based on nearest neighbor for spatial prediction, *Computational Statistics*.

2021

- 98- A. Tavasoli, Y. Waghei, A. Nazemi, Comparison of kriging and artificial neural network models for the prediction of spatial data, *Journal of Statistical Computation and Simulation (GSCS)*.
- 97- A. Tavasoli, Y. Waghei, A. Nazemi, The Ability of Artificial Neural Networks in Learning Dependency of Spatial Data, *Journal of Statistical Research of Iran JSRI* 16 (1), 211-228
- 96- D. Karbasi, A. Nazemi, M. Rabiei, An optimization technique for solving a class of ridge fuzzy regression problems, *Neural Processing Letters*
- 95- A. Nazemi, E. Fayyazi, Solving infinite-horizon optimal control problems of the time-delayed systems by a feed forward neural network model, *Network: Computation in Neural Systems*, (2021).
- 94- M. Yavari, A. Nazemi, On asymptotically stabilizing control of nonlinear fractional control systems using an optimization scheme, *Transactions of the Institute of Measurement and Control*, (2021).
- 93- M. Asgari, A. Mesforush, A. Nazemi, The numerical method for solving Volterra-Fredholm integro-differential equations of the second kind based on the meshless method, *Asian-European Journal of Mathematics*.
- 92- A. Feizi, A. Nazemi, M. Rabiei, Solving the stochastic support vector regression with probabilistic constraints by a high performance neural network model, *Engineering with Computers*, (2021).
- 91- D. Karbasi, A. Nazemi, M. Rabiei, A generalized bridge regression in fuzzy environment and its numerical solution by a capable recurrent neural network, *Journal of Mathematics*, (2021)
- 90- S. Ghasemi, A. Nazemi, R. Tajik, M. Mortezaee, On fractional optimal control problems with an application in fractional chaotic systems using a Legendre collocation-optimization technique, *Transactions of the Institute of Measurement and Control*, (2021).

2020

- 89- M. Mortezaee, M. Ghovatmand, A. Nazemi, An application of generalized fuzzy hyperbolic model for solving fractional optimal control problems with Caputo-Fabrizio derivative, *Neural Processing Letters*, (2020).
- 88- M. Asgari, A. Mesforush, A. Nazemi, The numerical approximation for the solution of linear and nonlinear integral equations of the second kind by interpolating moving least squares with error analysis, *Computational Methods for Differential Equations*.
- 87- D. Karbasi, A. Nazemi, M. Rabiei, A parametric recurrent neural network scheme for solving a class of fuzzy regression models with some real world applications, *Soft Computing*, (2020).
- 86- M. Mortezaee, M. Ghovatmand, A. Nazemi, Solving variable-order fractional differential algebraic equations via generalized fuzzy hyperbolic model with application in electric circuit modeling, *Soft Computing*, (2020).

- 85- M. Yavari, A. Nazemi, On fractional infinite-horizon optimal control problems with a combination of conformable and Caputo-Fabrizio fractional derivatives, *ISA Transactions*, (2020).
- 84- F. Kheyriataj, A. Nazemi, Fractional Chebyshev functional link neural network-optimization method for solving delay fractional optimal control problems with Atangana–Baleanu derivative, *Optimal Control Applications and Methods*, (2020).
- 83- S. Ghasemi, A. Nazemi, A fractional power series neural network for solving a class of fractional optimal control problems with equality and inequality constraints, *Network: Computation in Neural Systems*,(2020).
- 82- K. Izadpanah, A. Mesforoush, A. Nazemi, Stabilized IMLS based element free Galerkin method for stochastic elliptic partial differential equations,*Journal of Mathematical Modeling*, (2020).
- 81- M. Yavari, A. Nazemi, Fractional infinite-horizon optimal control problems with a feed forward neural network scheme, *Network: Computation in Neural Systems*, (2020).
- 80- F. Kheyriataj, A. Nazemi, Muntz–Legendre neural network construction for solving delay optimal control problems of fractional order with equality and inequality constraints, *Soft Computing*, (2020).
- 79- S. Mohammadi, A. Nazemi, On portfolio management with value at risk and uncertain returns via an artificial neural network scheme, *Cognitive Systems Research* (2020).

2019

- 78- M. Mortezaee, A. Nazemi, On infinite horizon optimal control problems with a feed forward neural network scheme, *Neural Processing Letters*.
- 77- A. Nazemi, A. Sabeghi, A new neural network framework for solving convex second-order cone constrained variational inequality problems with an application in multi-finger robot hands, *Journal of Experimental & Theoretical Artificial Intelligence*, (2019).
- 76- A. Nazemi, S. Sukhtsaraee, M. Mortezaee, A modified capable neural network for solving nonlinear programming problems with hybrid constraints, *Journal of Operational Research and Its Applications*, (In Farsi) (2019).
- 75- A. Nazemi, M. Mortezaee, Stabilization of a class of nonlinear control systems via a neural network scheme with convergence analysis, *Soft Computing*, (2019).
- 74- M. Yavari, A. Nazemi, An efficient numerical scheme for solving fractional infinite-horizon optimal control problems, *ISA Transactions*, (2019).
- 73- A. Nazemi, A new collaborate neuro-dynamic framework for solving convex second order cone programming problems with an application in multi-fingered robotic hands, *Applied Intelligence*, (2019).
- 72- M. H. Noori Skandari, M. Habibli, A. Nazemi, A direct method based on the clenshaw-curtis formula for fractional optimal control problems, *Mathematical Control and Related Fields*, (2019).
- 71- A. Nazemi, E. Fayyazi, M. Mortezaee, Solving optimal control problems of the time-delayed systems by a neural network framework, *Connection Science*, (2019).
- 70- F. Kheyriataj, A. Nazemi, Fractional power series neural network for solving delay fractional optimal control problems, *Connection Science*, (2019).
- 69- S. Ghasemi, A. Nazemi, A neural network method based on Mittag-Leffler function for solving a class of fractional optimal control problems, *AUT Journal of Modeling and Simulation*, (2019).
- 68- Z. Arjmandzadeh, A. Nazemi, M. Safi, Solving multiobjective random interval programming problems by a capable neural network framework, *Applied Intelligence* (2019)

- 67- S. Hosseinpour, A. Nazemi, E. Tohidi, A new approach for solving a class of delay fractional partial differential equations, *Mediterranean Journal of Mathematics* (2019).
- 66- A. Nazemi, M. Mortezaee, A novel collaborate neural dynamic system model for solving a class of min-max optimization problems with an application in portfolio management, *The Computer Journal*, (2019).
- 65- A. Nikseresht, A. Nazemi, A novel neural network for solving semidefinite programming problems with some applications, *Journal of Computational and Applied Mathematics*, (2019).
- 64- S. Hosseinpour, A. Nazemi, E. Tohidi, Muntz-Legendre spectral collocation method for solving delay fractional optimal control problems, *Journal of Computational and Applied Mathematics*, (2019).
- 63- A. Nazemi, A. Sabeghi, A novel gradient-based neural network for solving convex second-order cone constrained variational inequality problems, *Journal of Computational and Applied Mathematics*, (2019).

2018

- 62- M. H. Noori Skandari, A. Nazemi, A new approach to design asymptotically stabilizing control and adaptive control, *Optimal Control Applications & Methods*, (2018)
- 61- A. Nazemi, M. Mortezaee, A new gradient-based neural dynamic framework for solving constrained min-max optimization problems with an application in portfolio selection models, *Applied Intelligence*, (2018)
- 60- A. Nikseresht, A. Nazemi, A novel neural network model for solving a class of nonlinear semidefinite programming problems, *Journal of Computational and Applied Mathematics*, (2018).
- 59- A. Nazemi, S. Sukhtsaraie, M. Mortezaee, The neuro-dynamic scheme for solving general form of discrete time optimal control problems, *Applied Intelligence*, (2018).

2017

- 58- A. Nazemi, A capable neural network framework for solving degenerate quadratic optimization problems with an application in image fusion, *Neural Processing Letters*, (2017).
- 57- S. Ghasemi, A. Nazemi, S. Hosseinpour, Nonlinear fractional optimal control problems with neural network and dynamic optimization schemes, *Nonlinear Dynamics*, 89 (2017) 2669-2682.
- 56- M. Mortezaee, A. Nazemi, Solving infinite horizon optimal control problems of nonlinear interconnected large-scale dynamic systems via a Haar wavelet collocation scheme, *Iranian Journal of Operations Research*, 6 (2015) 19-35.
- 55- A. Feizi, A. Nazemi, An application of a practical neural network model for solving support vector regression problems, *Intelligent Data Analysis*, 21 (2017) 1443-1461.
- 54- F. Omid, B. Abbasi, A. Nazemi, An efficient dynamic model for solving a portfolio selection with uncertain chance constraint models, *Journal of Computational and Applied Mathematics*, 319 (2017) 43-55.
- 53- Z. Arjmandzadeh, M. R. Safi, A. Nazemi, A new neural network model for solving random interval linear programming problems, *Neural Networks*, 89 (2017) 11-18.
- 52- Z. Parsaeitabar, A. Nazemi, A third-degree B-spline collocation scheme for solving a class of the nonlinear Lane-Emden type equations, *Iranian Journal of Mathematical Sciences and Informatics*, (2017).
- 51- A. Nazemi, R. Karami, A neural network approach for solving optimal control problems with inequality constraints and some applications. *Neural Processing Letters*. 45 (2017) 995-1023.

2016

- 50- A. Nazemi, M. Mansoori, Solving optimal control problems of the time-delayed systems by Haar wavelet, *Journal of Vibration and Control*, 22 (2016) 2657-2670.
- 49- M. Mansoori, A. Nazemi, Solving infinite-horizon optimal control problems of the time-delayed systems by Haar wavelet collocation method, *Computational and Applied Mathematics*, 35 (2016) 97-117.
- 48- S. Hosseinpour, A. Nazemi, A collocation method via block-pulse functions for solving delay fractional optimal control problems, *IMA Journal of Mathematical Control and Information*, (2016) (In Press).
- 47- A. Nazemi, O. Ghezelsofla, A dual neural network scheme for solving the assignment problem, *The Computer Journal*, 60 (2017) 431-443.
- 46- M. Mortezaee, A. Nazemi, A wavelet collocation scheme for solving some optimal path planning problems, *The ANZIAM Journal (The Australian & New Zealand Industrial & Applied Mathematics Journal)*, 57 (2016) 461-481.
- 45- S. Hosseinpour, A. Nazemi, Solving fractional optimal control problems with fixed or free final states by Haar wavelet collocation method, *IMA Journal of Mathematical Control and Information*, 33 (2016) 543-561.

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- 44- A. Nazemi, S. Hesam, A. Haghbin, An application of differential transform method for solving nonlinear optimal control problems, *Computational Methods for Differential Equations*, 3, (2015) 200-217.
- 43- A. Nazemi, M. M. Shabani, LP modelling for the time optimal control problem with an application, *Advanced Modeling and Optimization*, 17 (2015) 149-163.
- 42- A. Nazemi, N. Tahmasbi, A practical nonlinear dynamic framework for solving a class of fractional programming problems, *Nonlinear Dynamics*, 82 (2015) 1093-1108.
- 41- A. Nazemi, F. Kheyrinataj, Parabolic optimal control problems with a quintic B-spline dynamic model, *Nonlinear Dynamics*, 80 (2015) 653-667.
- 40- A. Nazemi, B. Abbasi, F. Omid, Solving portfolio selection models with uncertain returns using an artificial neural network scheme, *Applied Intelligence*, 42 (2015) 609-621.
- 39- A. Nazemi, M. Dehghan, A neural network method for solving support vector classification problems, *Neurocomputing*, 152 (2015) 369-376.
- 38- A. Nazemi, LP modelling for the two dimensional nonlinear Fredholm integral equations, *Scientia Iranica, Transactions B: Mechanical Engineering*, 22 (2015) 165-174.
- 37- A. Nazemi, M. M. Shabani, Numerical solution of the time-delayed optimal control problems with hybrid functions, *IMA Journal of Mathematical Control and Information*, 32 (2015) 623-638.

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- 36- A. Nazemi, N. Mahmoudy, Solving infinite-horizon optimal control problems using Haar wavelet collocation method, *The ANZIAM Journal (The Australian & New Zealand Industrial & Applied Mathematics Journal)*, 56 (2014) 179-191.
- 35- A. Nazemi, A neural network model for solving convex quadratic programming problems with some applications, *Engineering Applications of Artificial Intelligence*, 32 (2014) 54-62.
- 34- A. Nazemi, M. Nazemi, A gradient-based neural network method for solving strictly convex quadratic programming problems. *Cognitive Computation*, 6 (2014) 484-495.

33- A. Nazemi, N. Tahmasbi, A computational intelligence method for solving a class of portfolio optimization problems, *Soft Computing*, 18 (2014) 2101-2117.

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31- A. Nazemi, M. H. Farahi, Shape optimization of an arterial bypass in cardiovascular systems, *Iranian Journal of Operations Research*, 4 (2013) 127-145.

30- A. Nazemi, S. Effati, An application of a merit function for solving convex programming problems, *Computers and Industrial Engineering*, 66 (2013) 212-221.

29- S. Hesam, A. Nazemi, A. Haghbin, Analytical solution for the generalized Kuramoto–Sivashinsky equation by differential transform method, *Scientia Iranica, Transactions B: Mechanical Engineering*, 20 (2013) 1805–1811.

28- A. Nazemi, N. Tahmasbi, A high performance neural network model for solving chance constrained optimization problems, *Neurocomputing*, 121 (2013) 540-550 .

27- A. Nazemi, S. Hesam, A. Haghbin, A fast numerical method for solving calculus of variation problems, *Advanced Modeling and Optimization*, 15 (2013) 133–149.

26- A. Nazemi, F. Omid, An efficient dynamic model for solving the shortest path problem, *Transportation Research Part C*, 26 (2013) 1-19 .

25- A. Nazemi, E. Sharifi, Solving a class of geometric programming problems by an efficient dynamic model, *Communications in Nonlinear Science and Numerical Simulation*, 18 (2013) 692-709 .

24- A. Nazemi, Solving general convex nonlinear optimization problems by an efficient neurodynamic model, *Engineering Applications of Artificial Intelligence*, 26 (2013) 685-696 .

2012

23- A. Nazemi, A dynamic system model for solving convex nonlinear optimization problems, *Communications in Nonlinear Science and Numerical Simulation*, 17 (2012) 1696–1705 .

22- S. Hesam, A. Nazemi, A. Haghbin, Reduced Differential Transform Method for solving the Fornberg–Whitham type equation, *International Journal of Nonlinear Science*, 13 (2012) 158–162.

21- S. Hesam, A. Nazemi, A. Haghbin, Analytical solution for the Fokker-Planck equation by differential transform method, *Scientia Iranica, Transactions B: Mechanical Engineering*, B, 19 (2012) 1140-1145.

20- M. Dosti, A. Nazemi, Quartic B-spline collocation method for solving one-dimensional hyperbolic telegraph equation, *Journal of Information and Computing Science*, 7 (2012) 83–90.

19- A. Nazemi, F. Omid, A capable neural network model for solving the maximum flow problem, *Journal of Computational and Applied Mathematics*, 236 (2012) 3498-3513 .

2011

18- A. Nazemi, M. H. Farahi, A numerical scheme for Fredholm integral equations, *Journal of Advanced Research in Applied Mathematics*, 3 (2011) 47-62.

17- A. Nazemi, LP modelling for the time optimal control problem of the heat equation, *Journal of Mathematical Modelling and Algorithm*, 10 (2011) 227-244.

16- M. Dosti, A. Nazemi, Solving one-dimensional hyperbolic telegraph equation using cubic B-spline quasi-interpolation, *International Journal of Mathematical and Computer Sciences*, 7 (2011) 57-62.

- 15- A. Nazemi, A dynamical model for solving degenerate quadratic minimax problems with constraints, *Journal of Computational and Applied Mathematics*, 236 (2011) 1282-1295 .
- 14- M. Dosti, A. Nazemi, Septic B-spline collocation method for solving one-dimensional hyperbolic telegraph equation, *World Academy of Science, Engineering and Technology*, 80 (2011) 1085-1089.
2010
- 13- A. Nazemi, S. Effati, Time optimal control problem of the wave equation, *Advanced Modeling and Optimization*, 12 (2010) 363-382.
- 12- S. Hesam, A. Nazemi, A. Haghbin, Analytical solution for the Zakharov-Kuznetsov equations by differential transform method, *International Journal of Engineering and Natural Sciences*, 4 (2010) 235-240.
2009
- 11- A. Nazemi, M. H. Farahi, Control the fibre orientation distribution at the outlet of contraction, *Acta Applicandae Mathematicae*, 106 (2009) 279-292 .
2008
- 10 A. Nazemi, M. H. Farahi, M. Zamirian, Filtration problem in inhomogeneous dam by using embedding method, *Journal of Applied Mathematics & Computing*, 28 (2008) 313-332.
- 9- A. Nazemi, M. H. Farahi, H. H. Mehne, Optimal shape design of iron pole section of electromagnet, *Physics Letters A*, 372 (2008) 3440-3451 .
2007
- 8- S. Effati, M. Hoseini, A. Nazemi, A new numerical method by revised measure theory for solving the nonlinear initial value problems, *Applied Mathematics and Computation*, 186 (2007), 780-788 .
- 7- S. Effati, A. Ghomashi, A. Nazemi, Application of projection neural network in solving convex programming problems, *Applied Mathematics and Computation*, 188 (2007) 1103-1114.
- 6- A. Nazemi, M. H. Farahi, A. V. Kamyad, A new technique for approximate solution of the nonlinear Volterra integral equation of the second kind, *Scientia Iranica*, 14 (2007) 579-585.
- 5- M. Zamirian, M. H. Farahi, and A. Nazemi, An applicable method for solving the shortest path problems, *Applied Mathematics and Computation*, 190 (2007) 1479-1486 .
- 4- S. Effati, A. Nazemi, A new approach for asymptotic stability of the nonlinear ordinary differential equations, *Journal of Applied Mathematics & Computing*, 25 (2007) 231-244.
- 3- M. H. Farahi, H. Fahimian, A. Nazemi, Using least square method to find the approximate solution of an over-determined system of linear equations, *Journal of Mathematical Extension*, 2 (2007) 113-122.
2006
- 2- S. Effati, A. Nazemi, Neural network models and its application for solving linear and quadratic programming problems, *Applied Mathematics and Computation*, 172 (2006) 305-331 .
2005
- 1- S. Effati, A. Nazemi, A new method for solving a system of the nonlinear equations, *Applied Mathematics and Computation*, 168 (2005) 877-894.

Conference Papers and Lectures

- 12- A. Nazemi, A neural network model for solving a class of stochastic optimization problems, 8th International Conference of the Iranian Society of Operations Research, Ferdowsi University of Mashhad, May 21-22, 2015.

- 11- N. Mahmoudy, A. Nazemi, The optimization of tracking missile time by Haar wavelet, International Conference on Nonlinear Modeling & Optimization, 28-29 August 2012, Shomal University, Amol, Iran.
- 10- M. Mansoori, A. Nazemi, Optimal control problems of infinite-horizon time-delayed systems using Haar wavelets, International Conference on Nonlinear Modeling & Optimization, 28-29 August 2012, Shomal University, Amol, Iran.
- 9- F. Kheyrinataj, A. Nazemi, The solving of parabolic distributed optimal control problems with Quartic B-spline collocation method, The 43rd Annual Iranian Mathematics Conference, University of Tabriz, 27 – 30 August 2012, Tabriz, Iran.
- 8- F. Kheyrinataj, A. Nazemi, The solving of parabolic distributed optimal control problems with quintic B-spline collocation method, International Conference on Nonlinear Modeling & Optimization, 28-29 August 2012, Shomal University, Amol, Iran.
- 7- N. Tahmasbi, A. Nazemi, A neuro dynamic model for solving stochastic linear programming problems, International Conference on Nonlinear Modeling & Optimization, 28-29 August 2012, Shomal University, Amol, Iran.
- 6- A. Nazemi, A high performance dynamic model for solving a class of geometric programming problems, 7th Vienna International Conference on Mathematical Modelling, 15 - 17 February 2012, Vienna, Austria.
- 5- A. Nazemi, Optimal shape design of an arterial bypass by embedding method, SFB Seminars on Optimization, 10:30, SR 11.34, Heinrichstr. 36, Graz, Austria, 4 February 2009.
- 4- A. Nazemi, M. H. Farahi, Shape optimization of an arterial bypass, 8th Seminar of differential Equations, Dynamical Systems and Their Applications, 29-31 July , 2008, Isfahan, Iran, 200-203.
- 3- A. Nazemi, M. H. Farahi Shape optimization of electromagnets, International Conference on Nonlinear Analysis and Optimization, 25-27 April 2007, Isfahan, Iran, 23.
- 2- A. Nazemi, M. H. Farahi, An optimization method for solving the two dimensional nonlinear Fredholm integral equations of the second kind, 16th Seminar of mathematical analysis and its applications, 4-5 February 2007, Mashhad, Iran, 105-108.
- 1- M. H. Farahi, M. Zamirian, A. Nazemi, An applicable approach for solving the shortest path problems, 37th Iranian mathematics conference, September 2006, Zanjan, Iran, 621-624.

With best wishes