CURRICULUM VITAE

Personal Information:

- Name: Alireza Nazemi
- Date of Birth : 1978
- Address :

Shahrood University of Technology,
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- Phone-Fax No: +98-23-32300235
- Academic Rank: Professor
- World's Top 2% Scientists" by Stanford University, (2019-2025)
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- Google Scholar: scholar.google.com/citations?user=ZbRB3vsAAAAJ&hl=en
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Skills:

- MATLAB Software
- Lingo Software
- TeX Software

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:

- Convex Optimization,
- Neural Network Theory,
- Non-smooth Optimization,
- Multi-objective Optimization,
- Machine Learning,
- Portfolio Optimization,
- Optimization of PDE's,
- Uncertain Optimization,
- Optimal Control,
- Chaos Control & Synchronization,
- Fractional Order Systems.

Publications:

Journal Papers

2026

135- M. Zarei, J. Fathali, A. Nazemi, An RNN-based method combined with bi-objective programming for tackling inverse facility line location problems, New Mathematics and Natural Computation, 2026.

134- R. Wangkeeree, R. Wangkeeree, Y.A. Belay, K. Ungchittrakool, A. Nazemi, Neurodynamical neural network method for solving support vector machines with epigraph reformulated generalized pinball loss function, Journal of Computational and Applied Mathematics, 2 (2026) 117754.

133- J. Chen, M. Jahangiri, A. Nazemi, Z Faraji, An efficient RNN algorithm for solving multi-objective optimization problems with an application in uncertain portfolio selection, Journal of Computational and Applied Mathematics, 117594, 2026

132- R. Wangkeeree, R. Wangkeeree, A. Nazemi, Y. A. Belay, K. Ungchittrakool , A projection recurrent neural network method for solving absolute value equations associated with second-order cones, Journal of Computational and Applied Mathematics, 117567, 2026.

131- S. A. Mirdousti, A. Nazemi, Projection neural network solution method for fuzzy convex quadratic programming problems with some applications The Journal of Supercomputing, 82 (8) (2026) 457.

130- A. Kazemi, A. A. Aghaei, A. Nazemi, Physics-Informed Kolmogorov-Arnold Networks for Granular Fuzzy Fractional Optimal Control Problems, IEEE Transactions on Fuzzy Systems, (2026).

129- A. Kazemi, A. Nazemi, Strong and weak solutions of fuzzy nonlinear optimal control problems via a Jacobi-based neural network scheme, Computational Methods for Differential Equations.

128- A. Kumar, A. Jayswal, A. Nazemi, A dual based neural network model for mathematical programs having vanishing constraints with applications, Journal of Applied Mathematics and Computing.

2025

127- A. Rawat, V. Singh, A. Nazemi, Solving mathematical programs with vanishing constraints using a gradient-based neural network model, Mathematics and Computers in Simulation 239 (2026) 1097–1116.

126- A. Kazemi, A. Nazemi, An application of Generalized Fuzzy Hyperbolic Model for solving fuzzy optimal control problems under granular differentiability, Journal of the Franklin Institute.

125- Z. Faraji Andabil, A. Nazemi, S. M. Mirlohi, Utilizing RNN based model and bi-objective programming to a new mean-conditional value at risk- entropy for uncertain portfolio optimization with liquidity and diversification, Fuzzy Optimization and Decision Making.

124- A. Rawat, V. Singh, A. Nazemi, Lagrangian-based neural network solution method for mathematical programs with vanishing constraints and its application in truss topology, Journal of Computational and Applied Mathematics.

123- M. Jahangiri, A. Nazemi, An efficient neural network model with reduction of complexity for solving convex quadratic multi-objective programming problems, New Mathematics and Natural Computation.

2024

122- A. Mirzaei, A. Nazemi, Parallel synchronization and a RBF neuro-fuzzy system to synchronization of chaotic systems, Iranian Journal of Fuzzy Systems.

121- M. Jahangiri, A. Nazemi, An efficient RNN based algorithm for solving fuzzy nonlinear constrained programming problems with numerical experiments, Journal of Computational and Applied Mathematics.

120- A. Kazemi, A. Nazemi, A RBF Neural Network System for Solving Fuzzy Optimal Control Problems Depending on Generalized Hukuhara Derivatives, New Mathematics and Natural Computation.

119- M. Jahangiri, A. Nazemi, A Projection Neural Network Model for Solving Fuzzy Convex Nonlinear Programming Problems, Iranian Journal of Fuzzy Systems.

118- S. Saghi, A. Nazemi, S. Effati, M. Ranjbar, Simplex algorithm for hesitant fuzzy linear programming problem with hesitant decision variables and right-hand-side values, International Journal of Fuzzy Systems.

117- M. Jahangiri, A. Nazemi, A cooperative neural dynamic model for solving general convex nonlinear optimization problems with fuzzy parameters and an application in manufacturing systems, International Journal of Adaptive Control and Signal Processing.

116- M. Jahangiri, A. Nazemi, Solving convex multi-objective optimization problems using a projection neural network framework, Soft Computing.

115- M. Mortezaee, M. Ghovatmand, A. Nazemi, Solving variable-order fractional delay differential algebraic equations via fuzzy systems with application in delay optimal control problems, Iranian Journal of Fuzzy Systems.

114- M. Jahangiri, A. Nazemi, Solving convex multi-objective optimization problems via a capable neural network scheme, International Journal of Computational Intelligence and Applications.

2023

113- M. Jahangiri, A. Nazemi, Solving fuzzy convex programming problems via a projection neural network framework, New Mathematics and Natural Computation.

112- M. Jahangiri, A. Nazemi, Solving general convex quadratic multi-objective optimization problems via a projection neurodynamic model, Cognitive Neurodynamics.

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. Kheyrinataj, 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. Kheyrinataj, 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)

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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).

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2019

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77- A. Nazemi, A. Sabeghi, A new neural network framework for solving convex second-order cone constrained variational inequality problems with a 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).

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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).

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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).

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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.

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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) 9951023.

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.

2015

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. Omidi, 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.

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2014

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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.

32- S. Effati, A. Nazemi, H. Shabani, Time optimal control problem of the heat equation with thermal source, IMA Journal of Mathematical Control and Information, 31 (2014) 385-402.

2013

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26- A. Nazemi, F. Omidi, 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

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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.

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

2011

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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 .

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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 Soceity 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 43^{rd} 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.

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4- A. Nazemi, M. H. Farahi, Shape optimization of an arterial bypass, 8^{th} 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, 16^{th} 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, 37^{th}Iranian mathematics conference, September 2006, Zanjan, Iran, 621-624.

With best wishes