



Dr. Amin Mansoori

Curriculum Vitae

Personal Information

- Address **Department of Applied Mathematics, Faculty of Mathematical Sciences, Ferdowsi University of Mashhad, Mashhad, Iran.**
- E-mails **am.ma7676@yahoo.com, am.ma7676@gmail.com, aminmansoori@um.ac.ir.**
- Cell phone **+98 915 102 6216.**
- Current Position **Assistant Professor at Ferdowsi University of Mashhad.**
- Home page **<https://prof.um.ac.ir/aminmansoori/about.html>.**
- Google Scholar link **https://scholar.google.com/citations?hl=en&=leq9cl0AAAAJ&view_op=list_works&sortby=pubdate.**

Profile

- Finish the third Post-doc in "Data Science in Medical Sciences" at Mashhad University of Medical Sciences;
- Finish the second Post-doc in "Control and Optimization with Recurrent Neural Network" at Ferdowsi University of Mashhad;
- Finish the first Post-doc in "Optimization and Modelling in Management" at Ferdowsi University of Mashhad;
- Published 56 high-quality journal papers. Some of them published in IEEE, Elsevier, and Springer;
- Presented 12 conference papers at international and national conferences;
- Master advisor in Optimization at Ferdowsi University of Mashhad, Iran (2018-present).
- Taught mathematics courses (calculus, multivariate calculus, mathematical modelling, linear optimization, and differential equation) at university for ten years and optimization courses for five years both at undergraduate and postgraduate level (MSc and PhD);
- Have a thorough understanding of optimization and recurrent neural networks for applying in real world problems and data science techniques;

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Amin Mansoori's Curriculum Vitae

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- Ability to design mixed method in optimization. The first post-doc research is about modelling the management problems via optimal control problems;
- Ability to use software in optimization and data science. My computer skills include MATLAB, C++, JMP (SAS), SPSS, Python;
- Have several finished and on go research plan;

Post-doc Fellowship

- 2019–2021 **Post-doc**, *Optimization and Modelling in Management*, Ferdowsi University of Mashhad, Mashhad, Iran.
- 2021–2022 **Post-doc**, *Control and Optimization with recurrent neural network*, Ferdowsi University of Mashhad, Mashhad, Iran.
- 2022–2024 **Post-doc**, *Machine Learning Techniques in Medical Data*, Mashhad University of Medical Sciences, Mashhad, Iran.

Education

- 2010–2013 **Bachelor**, *Applied Mathematics*, Ferdowsi University of Mashhad, Mashhad, Iran.
- 2013–2015 **Master**, *Applied Mathematics-Optimization*, Ferdowsi University of Mashhad, Mashhad, Iran.
- 2016–2018 **PhD**, *Applied Mathematics-Optimization*, Ferdowsi University of Mashhad, Mashhad, Iran.

Master Thesis

- Title *Solving a class of fuzzy and crisp programming problems by neural networks*
- Supervisor Prof. Sohrab Effati
- Advisor Prof. Reza Ghanbari

PhD Thesis

- Title *Projection equation, neural networks and applications*
- Supervisor Prof. Sohrab Effati
- Advisor Prof. Ali Vahidian Kamyad

Experience

Lecturing Experiences

- Ferdowsi University of Mashhad 2015-on going **Calculus I, Calculus II, Differential Equations, Mathematical Modelling, Linear Optimization (B.Sc. Course), Engineering Mathematics, Optimal Control of Biological Systems, Data Mining in Biology (M.Sc. Course), Advance Mathematics-Linear and Nonlinear Optimization (Ph.D. Course).**
- Quchan University of Technology 2016-2018 **Calculus I, Calculus II, Differential Equations, Engineering Mathematics, Advance Programming (C++), Numerical Analysis.**

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Amin Mansoori's Curriculum Vitae

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Publications

2024

- 56- **Scientific Reports**, S. G. Hafezi, T. Sahranavard, A. Kooshki, M. Hosseini, **A. Mansoori**, E. Amir Fakhrian, H. Rezaeifard, M. Ghamsary, H. Esmaily, M. Ghayour-Mobarhan, Predicting high sensitivity C-reactive protein levels and their associations in a large population using decision tree and linear regression, 14, (2024) 30298.
- 55- **ESC Heart Failure**, S. Darroudi, M. Eslamiyeh, **A. Mansoori**, E. Nazar, M. AlinezhadNamaghi, R. Rezvani, M. GhayourMobarhan, H. Esmaily, M. Moohebaty, G. A. Ferns, M. Ghamsary, Multivariate linear regression to predict association of noninvasive arterial stiffness with cardiovascular events, in press.
- 54- **Journal of Diabetes Investigation**, **A. Mansoori**, M. Nosrati, M. Dorchin, F. Mohammadyari, E. DerakhshanNezhad, G. Ferns, H. Esmaily, M. GhayourMobarhan, A novel index for diagnosis of type 2 diabetes mellitus: Cholesterol, High density lipoprotein, and Glucose (CHG) index, in press.
- 53- **Journal of Human Hypertension**, S. Ghoflchi, **A. Mansoori**, M. Islampanah, S. A. Yousefabadi, M. Poudineh, E. Derakhshan-Nezhad, A. Zardast, M. Azmon, F. A. Rezae, G. Ferns, H. Esmaily, M. Ghayour-Mobarhan, Blood indices of inflammation and their association with hypertension in smokers: analysis using data mining approaches, in press.
- 52- **Chemistry and Physics of Lipids**, S. G. Hafezi, B. Behkamal, M. Rashidmayvan, M. Hosseini, M. Yadegari, S. Ghoflchi, **A. Mansoori**, M. Ghamsary, G. Ferns, M. R. Saberi, H. Esmaily, M. Ghayour-Mobarhan, Comparison between statistical and machine learning methods to detect the hematological indices with the greatest influence on elevated serum levels of low-density lipoprotein cholesterol, 265, (2024) 105446.
- 51- **Molecular and Cellular Biochemistry**, S. G. Hafezi, R. K. Ahari, M. Saberi-Karimian, Z. E. Giski, **A. Mansoori**, G. A. Ferns, M. Ebrahimi, A. Heidari-Bakavoli, M. Moohebaty, S. Yousefian, F. Farrokhzadeh, H. Esmaily, M. Ghayour-Mobarhan, Association of high-sensitivity C-reactive protein and hematologic-inflammatory indices with risk of cardiovascular diseases: a population-based study with partial least squares structural equation modeling approach, in press.
- 50- **Journal of Clinical Laboratory Analysis**, S. A. Yousefabadi, S. G. Hafezi, A. Kooshki, M. Hosseini, **A. Mansoori**, M. Ghamsary, H. Esmaily, M. GhayourMobarhan, Evaluating the Association of Anthropometric Indices With Total Cholesterol in a Large Population Using Data Mining Algorithms, 38, Issue17-18 (2024) e25095.
- 49- **BMC Women's Health**, P. Sharifan, T. Sahranavard, M. Rashidmayvan, S. Darroudi, M. V. Fard, K. Mohammadhasani, **A. Mansoori**, S. Eslami, M. Safarian, A. Afshari, M. Bagherniya, M. Tayefi, M. Khadem-Rezaiyan, H. Ghazizadeh, G. Ferns, M. Rezaie, M. Ghayour-Mobarhan, Effect of dairy products fortified with vitamin d3 on restless legs syndrome in women with premenstrual syndrome, abdominal obesity and vitamin d deficiency: a pilot study, 24 (2024) 434.

- 48- **Soft Computing**, Alireza Pooya, **A. Mansoori**, Neural network for solving disturbance optimal control model for production inventory system with stochastic deterioration in two-level supply chain, 28 (2024) 11377–11392.
- 47- **Biological Trace Element Research**, **A. Mansoori**, S. G. Hafezi, A. Ansari, S. A. Yousefabadi, R. K. Ahari, S. Darroudi, M. Eshaghnezhad, G. Ferns, M. Ghayour-Mobarhan, H. Esmaily, S. Effati, Serum Zinc and Copper Concentrations and Dyslipidemia as Risk Factors of Cardiovascular Disease in Adults: Data Mining Techniques, in press.
- 46- **International Journal of Computer Mathematics**, **A. Mansoori**, S. Effati, M. Eshaghnezhad, An iterative method to solve the time delay optimal control problem with bounded control variable, 101 (6) 2024 653–667.
- 45- **The Journal of Clinical Hypertension**, R. K. Ahari, T. Sahranavard, **A. Mansoori**, Z. Fallahi, N. Babaepoor, G. Ferns, M. Ghayour-Mobarhan, Association of atherosclerosis indices, serum uric acid to high-density lipoprotein cholesterol ratio and triglycerides-glucose index with hypertension: A gender-disaggregated analysis, 26 (6) (2024) 645–655.
- 44- **Journal of Trace Elements in Medicine and Biology**, M. Rashidmayvan, **A. Mansoori**, M. Aghasizadeh, M. Dianati, S. Barati, T. Sahranavard, S. Darroudi, R. K. Ahari, H. Esmaily, G. Ferns, M. R. Mohammadtaghizadeh Sarabi, R. Faridni, M. Ghayour-Mobarhan, M. Moohebaty, Prediction of cardiovascular disease risk by serum zinc and copper concentrations and anthropometric measurements, 83 (2024) 127385.
- 43- **BMC Endocrine Disorders**, H. Ghazizadeh, **A. Mansoori**, T. Sahranavard, M. Nasrabadi, K. Hadiloo, N. S. Andalibi, M. Azmon, S. Tavallaei, A. Timar, G. A. Ferns, M. Ghayour-Mobarhan, The associations of oxidative stress and inflammatory markers with obesity in Iranian population: MASHAD cohort study, 24 (2024) 56.
- 42- **Diabetology International**, **A. Mansoori**, D. Tanbakuchi, Z. Fallahi, F. A. Rezae, R. Vahabzadeh, S. S. Soflaei, R. Sahebi, F. Hashemzadeh, S. Nikraves, F. Rajabalizadeh, G. Ferns, H. Esmaily, M. Ghayour-Mobarhan, Uric acid is associated with type 2 diabetes: data mining approaches, 15 (2024) 518–527.
- 41- **Journal of Human Hypertension**, **A. Mansoori**, N. Seifi, R. Vahabzadeh, F. Hajiabadi, M. H. Mood, M. Harimi, M. Poudineh, G. Ferns, H. Esmaily, M. Ghayour-Mobarhan, The relationship between anthropometric indices and the presence of hypertension in an Iranian population sample using data mining algorithms, 38 (3) (2024) 277–285.
- 40- **Hypertension Research**, **A. Mansoori**, N. S. Farizani Gohari, L. Etemad, M. Poudineh, R. Kolahi Ahari, F. Mohammadyari, M. Azami, E. Sadooghi Rad, G. Ferns, H. Esmaily, M. Ghayour-Mobarhan, White blood cell and platelet distribution widths are associated with hypertension: Data mining approaches, 47 (2) (2024) 515–528.

2023

- 39- **Frontiers in Nutrition**, Z. Namkhah, S. F. Fatemi, **A. Mansoori**, S. Nosratabadi, M. Ghayour-Mobarhan, S. R. Sobhani, Advancing sustainability in the food and nutrition system: a review of artificial intelligence applications, 10 (2023) 1295241.

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- 38- **BMC Infectious Diseases**, **A. Mansoori**, Z. S. Hosseini, H. Ghazizadeh, M. Aghazizadeh, S. Darroudi, T. Sahranavard, H. S. Izadi, A. Amiriani, E. Farkhani, G. A. Ferns, M. Ghayour-Mobarhan, M. Mohebati, H. Esmaily, Association between biochemical and hematologic factors with COVID-19 using data mining methods, 23 (2023) 897.
- 37- **IEEE Transactions on Control of Network Systems**, J. Liu, X. Liao, J. -S. Dong, **A. Mansoori**, Continuous-Time Distributed Generalized Nash Equilibrium Seeking in Nonsmooth Fuzzy Aggregative Games, 11 (3) (2024) 1262–1274.
- 36- **Acta Cardiologica**, M. Poudineh, **A. Mansoori**, E. S. Rad, Z. S. Hosseini, F. S. Izadi, M. Hoseinpour, M. Mahmoudi Zo, S. Ghoflchi, D. Tanbakuchi, E. Nazar, G. Ferns, S. Effati, H. Esmaily, M. Ghayour-Mobarhan, Platelet distribution widths and white blood cell are associated with cardiovascular diseases: data mining approaches, 78 (9) (2023) 1033–1044.
- 35- **Neural Processing Letters**, J. Bani Hassan, Z. S. Mirzazadeh, S. Abdi, M. Eshaghnezhad, **A. Mansoori**, A Novel Neurodynamic Model for Data Envelopment Analysis: A Case Study on Irans Olympic Sports Caravan, 55 (9) (2023) 12079–12092.
- 34- **Endocrinology, Diabetes & Metabolism**, R. Kolahi Ahari, **A. Mansoori**, T. Sahranavard, M. S. Miri, S. Feizi, H. Esmaily, M. Ghayour-Mobarhan, Serum uric acid to highdensity lipoprotein ratio as a novel indicator of inflammation is correlated with the presence and severity of metabolic syndrome: A large-scale study, 6 (6) (2023) e446.
- 33- **BMC Pulmonary Medicine**, H. Ghazizadeh, N. Shakour, S. Ghoflchi, **A. Mansoori**, M. Saberi-Karimiam, M. Rashidmayvan, G. Ferns, H. Esmaily, M. Ghayour-Mobarhan, Use of data mining approaches to explore the association between type 2 diabetes mellitus with SARS-CoV-2, 23 (2023) 1-14.
- 32- **High Blood Pressure & Cardiovascular Prevention**, **A. Mansoori**, Z. S. Hosseini, R. Kolahi Ahari, M. Poudineh, E. Sadooghi Rad, M. Mahmoudi Zo, F. S. Izadi, M. Hoseinpour, A. Miralizadeh, Y. A. Mashhadi, M. Hormozi, M. T. Firoozeh, O. Hajhoseini, G. Ferns, H. Esmaily, M. Ghayour-Mobarhan, Development of Data Mining Algorithms for Identifying the Best Anthropometric Predictors for Cardiovascular Disease: MASHAD Cohort Study, 30 (2023) 243-253.
- 31- **Neural Networks**, J. Liu, X. Liao, J. -S. Dong, **A. Mansoori**, A neurodynamic approach for nonsmooth optimal power consumption of intelligent and connected vehicles, 161 (2023) 693-707.
- 30- **Journal of Systems Thinking in Practice**, M. Eshaghnezhad, **A. Mansoori**, S. Effati, Optimal control problem: A case study on production planning in reverse logistics system, 2 (2023) 28-38.
- 29- **Neural Networks**, J. Liu, X. Liao, J. -S. Dong, **A. Mansoori**, A subgradient-based neurodynamic algorithm to constrained nonsmooth nonconvex interval-valued optimization, 160 (2023) 259-273.

- 28- **Scientific Reports**, **A. Mansoori**, T. Sahranavard, Z. S. Hosseini, S. S. Soflaei, N. Emrani, E. Nazar, M. Gharizadeh, Z. Khorasanchi, S. Effati, M. Ghamsary, G. Ferns, H. Esmaily, M. Ghayour-Mobarhan, Prediction of type 2 diabetes mellitus using hematological factors based on machine learning approaches: a cohort study analysis, 13 (2023) 663.

2022

- 27- **Journal of Cardio-Thoracic Medicine**, M. Pashirzad, H. Ghazizadeh, M. S. Shamsi, M. Yaghooti-Khorasani, R. A. Darban, A. K. Khodabandeh, E. Akbarpour, M. M. Bajgiran, **A. Mansoori**, R. J. Dash Bayyaz, P. Asadian, K. Khanizadeh, H. Akhtari, M. Hadizadeh, A. Babaei, S. S. Khayatizadeh, G. A. Ferns, H. Esmaily, M. Ghayour-Mobarhan, Age-Specific Reference Intervals for Routine Laboratory Biochemical Tests in The Iranian Adolescent Girls, 10 (4) (2022) 1052-1064.
- 26- **Journal of Clinical Laboratory Analysis**, M. SaberiKarimian, **A. Mansoori**, M. M. Bajgiran, Z. S. Hosseini, A. Kiyoumarsioskouei, E. Sadooghi Rad, M. Mahmoudi Zo, N. Y. Khorasani, M. Poudineh, S. Ghazizadeh, G. Ferns, H. Esmaily, M. GhayourMobarhan, Data mining approaches for type 2 diabetes mellitus prediction using anthropometric measurements, (2022) e24798.
- 25- **Reviews in Clinical Medicine**, M. Nosrati, N. Shakour, T. Sahranavard, F. Sadabadi, S. S. Soflaei, H. Ghazizadeh, M. M. Bajgiran, M. R. Latifi, **A. Mansoori**, M. Ebrahimi, M. Mouhebati, S. H. Mirshafee, M. Haghghi, R. A. Darban, E. Akbarpour, G. A. Ferns, H. Esmaily, M. Ghayour-Mobarhan, Association between diabetes mellitus and rs2868371; a polymorphism of HSPB1, 9 (1) (2022) 28-33.
- 24- **Journal of Experimental & Theoretical Artificial Intelligence**, M. Eshagnezhad, S. Effati, and **A. Mansoori**, A compact MLCP-based projection recurrent neural network model to solve shortest path problem, 35 (7) (2023) 1101-1119.

2021

- 23- **RAIRO Operations Research**, Z. S. Mirzazadeh, J. Bani Hassan, **A. Mansoori**, Assignment model with multi-objective linear programming for allocating choice ranking using recurrent neural network, 55 (2021) 3107-3119.
- 22- **BioFactors**, M. Saberi-Karimian, H. Safarian-Bana, E. Mohammadzadeh, T. Kazemi, **A. Mansoori**, H. Ghazizadeh, S. Samadi, I. Nikbakht-Jam, M. Nosrati, G. A. Ferns, H. Esmaily, M. Aghasizadeh, M. Ghayour-Mobarhan, A pilot study of the effects of crocin on high-density lipoprotein cholesterol uptake capacity in patients with metabolic syndrome: A randomized clinical trial, 47 (6) (2021) 1032-1041.
- 21- **Neural Processing Letters**, A. Pooya, **A. Mansoori**, M. Eshagnezhad, and S. M. Ebrahimpour, Neural Network for a Novel Disturbance Optimal Control Model for Inventory and Production Planning in a Four-Echelon Supply Chain with Reverse Logistic, 53 (6) (2021) 4549-4570.
- 20- **Iranian Journal of Fuzzy Systems**, R. K. Amirabadi, O. S. Fard, and **A. Mansoori**, A Novel Fuzzy Sliding Mode Control Approach for Chaotic Systems, 18 (6) (2021) 133-150.

- 19- **Journal of Clinical Laboratory Analysis**, *M. Aghasizadeh, S. Samadi, A. Sahebkar, E. Miri-Moghaddam, H. Esmaily, M. Soukhtanloo, A. Avan, A. Mansoori, G. A. Ferns, T. Kazemi, and M. G.-Mobarhan*, Serum HDL cholesterol uptake capacity in subjects from the MASHAD cohort study: its value in determining the risk of cardiovascular endpoints, 35 (6) (2021) e23770.
- 18- **IEEE Transactions on Systems, Man, and Cybernetics: Systems**, *A. Mansoori and S. Effati*, Parametric NCP-Based Recurrent Neural Network Model: A New Strategy to Solve Fuzzy Nonconvex Optimization Problems, 51 (4) (2021) 2592-2601.
- 17- **Journal of Experimental & Theoretical Artificial Intelligence**, *S. Effati, A. Mansoori, and M. Eshagnezhad*, Linear Quadratic Optimal Control Problem with Fuzzy Variables via Neural Network, 33 (2021) 283-296.
- 2020
- 16- **Iranian Journal of Numerical Analysis and Optimization**, *M. Baymani and A. Mansoori*, An efficient algorithm to improve the accuracy and reduce the computations of LS-SVM, 10 (1) (2020) 22-47.
- 2019
- 15- **Journal of Mathematical Modeling**, *M. Erfanian and A. Mansoori*, Rationalized Haar wavelet bases to approximate the solution of the first Painlevé equations, 7 (1) (2019) 107-116.
- 14- **Mathematics and Computers in Simulation**, *M. Erfanian and A. Mansoori*, Solving the nonlinear integro-differential equation in complex plane with rationalized Haar wavelet, 165 (2019), 223-237.
- 13- **Neurocomputing**, *A. Mansoori and S. Effati*, An efficient neurodynamic model to solve nonlinear programming problems with fuzzy parameters, 334 (2019) 125-133.
- 12- **IEEE Transactions on Neural Networks and Learning Systems**, *A. Mansoori, S. Effati, and M. Eshagnezhad*, Recurrent Neural Network Model: A New Strategy to Solve Fuzzy Matrix Games, 30 (8) (2019) 2538-2547.
- 11- **Neural Processing Letters**, *A. Shojaeifard, A. N. Amroudi, A. Mansoori, M. Erfanian*, Projection Recurrent Neural Network Model: A New Strategy to Solve Weapon-Target Assignment Problem, 50 (3) (2019) 3045-3057.
- 10- **Neural Processing Letters**, *M. Eshagnezhad, F. Rahbarnia, S. Effati, A. Mansoori*, An artificial neural network model to solve the fuzzy shortest path problem, 50 (2) (2019) 1527-1548.
- 9- **IEEE Journal of Biomedical and Health Informatics**, *M. Mohammadi and A. Mansoori*, A Projection Neural Network for Identifying Copy Number Variants, 23 (5) (2019) 2182-2188.
- 2018
- 8- **Neurocomputing**, *M. Baymani, N. Salehi-M, and A. Mansoori*, Applying norm concepts for solving interval support vector machine, 311 (2018) 41-50.

- 7- **Journal of Computational and Applied Mathematics**, **A. Mansoori** and *M. Erfanian*, A dynamic model to solve the absolute value equations, 333 (2018) 28-35.
- 6- **Journal of Linear and Topological Algebra**, *M. Ghorbanzadeh*, *H. Kamali*, **A. Mansoori**, Transformations computations: Power, Roots and Inverse, 7 (1) (2018) 21-38.
- 5- **IEEE Transactions on Circuits and Systems II: Express Briefs**, **A. Mansoori**, *M. Eshaghnezhad*, and *S. Effati*, An efficient neural network model for solving the absolute value equations, 65 (3) (2018), 391-395.
- 4- **Fuzzy Optimization and Decision Making**, **A. Mansoori**, *S. Effati*, and *M. Eshaghnezhad*, A neural network to solve quadratic programming problems with fuzzy parameters, 27 (1) (2018) 75-101.

2017

- 3- **IEEE Transactions on Cybernetics**, *M. Eshaghnezhad*, *S. Effati*, **A. Mansoori**, A Neurodynamic Model to Solve Nonlinear Pseudo-Monotone Projection Equation and Its Applications, 47 (10) (2017) 3050-3062.
- 2- **Applied Intelligence**, **A. Mansoori**, *S. Effati*, and *M. Eshaghnezhad*, An efficient artificial neural network model for solving non-linear programming problems with fuzzy parameters, 46 (2017) 308-327.

2015

- 1- **Neurocomputing**, *S. Effati*, **A. Mansoori**, and *M. Eshaghnezhad*, An efficient projection neural network for solving bilinear programming problems, 168 (2015) 8811-8811.

Conference papers

2020

- 12- **A. Mansoori**, *S. Effati*, and *M. Eshaghnezhad*, On Shortest Path Problem via a Novel Neurodynamic Model: A Case Study. In: Allahviranloo T., Salahshour S., Arica N. (eds) Progress in Intelligent Decision Science. IDS 2020. Advances in Intelligent Systems and Computing, vol 1301. Springer, Cham (2020).

2019

- 11- **A. Mansoori**, *S. Effati*, and *M. Eshaghnezhad*, A projection RNN for non-convex optimization problems. in the 3th National Seminar on Control and Optimization, Sabzevar, Iran, November 2019. Hakim Sabzevari University.
- 10- **A. Mansoori**, *S. Effati*, and *M. Eshaghnezhad*, an approximation for delay optimal control of nonlinear systems. in the 3th National Seminar on Control and Optimization, Sabzevar, Iran, November 2019. Hakim Sabzevari University.

2018

- 9- **A. Mansoori**, *S. Effati*, and *M. Eshaghnezhad*, A projection neural network for linear vector optimization problems. in the 2th National Seminar on Control and Optimization, Shahrood, Iran, November 2018. Shahrood University of Technology.

- 8- M. Eshaghnezhad, F. Rahbarnia, S. Effati, and **A. Mansoori**, A dynamic model to solve fuzzy nonlinear optimization. in the 2th National Seminar on Control and Optimization, Shahrood, Iran, November 2018. Shahrood University of Technology.
- 7- Alireza Shojaeifard, **A. Mansoori**, and Ali Nakhaei Amrodi, A dynamic model for weapon-target assignment problem. in the 3th International Conference on Combinatorics, Cryptography and Computation, Tehran, Iran, November 2018. Iran University of Science & Technology.
- 6- Alireza Shojaeifard, **A. Mansoori**, and Ali Nakhaei Amrodi, A neurodynamic model for shortest path problem. in the 3th International Conference on Combinatorics, Cryptography and Computation, Tehran, Iran, November 2018. Iran University of Science & Technology.
- 5- **A. Mansoori**, S. Effati, and M. Eshaghnezhad, A neural network for solving the AVE. in the 11th International Conference of Iranian Operations Research Society, Kermanshah, Iran, May 2018. Razi University of Kermanshah.
- 4- S. Effati, **A. Mansoori**, A capable neural network model for fuzzy quadratic optimization problems. in the 8th Seminar on Fuzzy Statistics and Probability, Mashhad, Iran, May, 2018. Ferdowsi University of Mashhad.

2017

- 3- A. Shojaeifard, **A. Mansoori**, A. N. Amrodi, A recurrent neural network model for shortest path problem. in the Second International Conference on Knowledge-Based Research in Computer Engineering & IT, Tehran, Iran, September 2017. Allameh Tabataba'i University.

2014

- 2- **A. Mansoori**, S. Effati, A neural network for solving fuzzy quadratic programming problems. in the 7th International Conference of Iranian Operations Research Society, Semnan, Iran, May, 2014. Semnan University.

2013

- 1- S. Effati, **A. Mansoori**, A novel on stochastic linear quadratic optimal control problems. in the 5th Iranian Applied Mathematics Conference, Hamedan, Iran, September, 2013. Buali University of Hamedan.

Book

Logic, Sets, and Numbers: Subject and Problem. **A. Mansoori**, S. Beheshti, and S. Beheshti, Ferdowsi University of Mashhad Press, 2017.

Reviewer

Journal Reviewer

- 1- IEEE Transactions on Cybernetics.
- 2- IEEE Transactions on Circuits and Systems II: Express Briefs.
- 3- IEEE Journal of Biomedical and Health Informatics.
- 4- IEEE Transactions on Neural Networks and Learning Systems.
- 5- IEEE Transactions on Systems, Man, and Cybernetics: Systems.

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- 6- IEEE Transactions on Fuzzy Systems.
- 7- Journal of Ambient Intelligence and Humanized Computing.
- 8- Journal of the Operations Research Society of China.
- 9- Biquarterly Research Journal of Control and Optimization in applied Mathematics.
- 10- Iranian Journal of Numerical Analysis and Optimization.
- 11- JMIR Public Health & Surveillance.
- 12- Medicine.
- 13- Global Pediatric Health.

Conferences Reviewer

- 1- The First Seminar on Control and Optimization, October 2017.
- 2- The Third Seminar on Control and Optimization, November 2019 (Chairman).
- 3- The 8th Joint Congress on Fuzzy and Intelligent Systems, March 2020.
- 4- The 55th Annual Iranian Mathematics Conference, September 2024.

Research Interests

- Optimization
- Recurrent Neural Network
- Data Science in Biology
- Graph Theory
- Optimal Control
- Mathematical Biology
- Fuzzy Mathematics

Recently Completed Advisor

Master Thesis

- Farzaneh Ghalandarabadi. (2019). Differential nash equilibrium with time shift
- Mahnaz Zeynali. (2019). A numerical method for solving a class of fractional optimal control problems
- Homa Pouyanfar. (2020). Solving Nonsmooth Optimization Problems with Recurrent Neural Networks
- Mahla Eramiyan. (2021). Smoothing Nonsmooth Optimization Problem and Solving Them with Recurrent Neural Networks
- Fatemeh Nasiri. (2021). Applying recurrent neural networks for solving a class of nonsmooth optimization problems
- Mohsen Mansouri. (2021). A direct method for solving calculus of variations problems using the Whale Optimization Algorithm
- Sajedah Movahedifar. (2022). Harvesting effect on Preypredator system with strong Allee effect in prey
- Zahra Shojaee Asl. (2023). Mathematical modeling of cholera dynamics with intrinsic growth considering constant intervention

Cooperation in Conferences

- Director of Secretariat in the First Seminar of Control and Optimization, Faculty of Mathematical Sciences, Ferdowsi University of Mashhad, Mashhad, Iran, October 2017.
- Cooperation in Secretariat in the 44th Annual Iranian Mathematics Conference, Faculty of Mathematical Sciences, Ferdowsi University of Mashhad, Mashhad, Iran, August 2013.
- Director of Publishing Committee in Joint Congress on Computational Intelligence 2020, Ferdowsi University of Mashhad, Mashhad, Iran, September 2020.
- Cooperation in the 55th Annual Iranian Mathematics Conference, Faculty of Mathematical Sciences, Ferdowsi University of Mashhad, Mashhad, Iran, September 2024.

Honors, Prizes and Awards

Prizes and Awards

- *Selected Top Educational Instructor* of "Faculty of Mathematical Sciences, Ferdowsi University of Mashhad" in 2021.
- *Top Researcher Awards* of "Faculty of Mathematical Sciences, Ferdowsi University of Mashhad" in 2018.
- *Top Researcher Awards* of "Quchan University of Technology" in 2018.
- *Member* of "Iran's National Elites Foundation" in 2018-present.
- *Member* of "Brilliant talents of Ferdowsi University of Mashhad" in 2016-present.
- *Top Student* in PhD degree.
- *Top Student* in Master degree.
- *Top Paper Prize* of "the Second International Conference on Knowledge-Based Research in Computer Engineering & IT" in 2017.
- *Top Paper Prize* of "the Third National Seminar on Control and Optimization" in 2019.
- *Top Selector and Star Student Awards* of "Ferdowsi University of Mashhad" in 2019. This prize is given to 10 students annually in Ferdowsi University of Mashhad who have outstanding activities in all aspects of research and education.

Grants: Research Plan

- 2019-present Ferdowsi University of Mashhad grant, "Delay Optimal Control of Nonlinear Systems with Persistent Disturbances".
- 2018-present Iran National Science Foundation grant, "A novel approach for solving the applied optimization problems via recurrent neural networks".
- 2017-2019 Quchan University of Technology grant, "Solving the fuzzy quadratic optimization problems via recurrent neural networks".
- 2021-present World Health Organization (WHO) grant, "Development of a policy brief and advocacy materials on addressing nutritional factors in prevention of cardiovascular diseases".

- 2021-present Mashhad University of Medical Sciences grant, "Investigation the risk factors of diabetes mellitus using deep machine learning methods and designation of a system dynamics for diabetes mellitus prediction according to MASHAD cohort study".
- 2021-present National Institute for Medical Research Development (NIMAD) grant, "Combining Data on Independent Iran Cohorts: A New Strategy for Data Pooling and Harmonization".
- 2021-present National Institute for Medical Research Development (NIMAD) Elite's grant, "Designation and validation of a graphical food frequency questionnaire".
- 2021-present The Asia Cohort Consortium (ACC) grant, "The association of dietary patterns with dietary inflammatory index among individuals with different BMI status: a pooled analysis of Asian cohort studies based on machine learning schemes".

Talks

- 30 January 2021. Application of Machine Learning in Medical Data Analysis, General seminar in Department of Applied Mathematics, Ferdowsi University Of Mashhad, Faculty of Mathematical Sciences.
- 15 April 2018. Application of Optimal Control Theory and Neural Networks in Diseases, Specialized seminar in Department of Applied Mathematics, Ferdowsi University Of Mashhad, Faculty of Mathematical Sciences.
- 30 April 2014. Elementary introduction to neural networks, Math Weekly Seminars, Ferdowsi University Of Mashhad, Faculty of Mathematical Sciences.
- 28 May 2012. Optimization by electromagnetic, Math Weekly Seminars, Ferdowsi University Of Mashhad, Faculty of Mathematical Sciences.

Languages

Persian **Native**
 English **Fluent**
 German **Modest**

Computer Skills

Writing Packages $\text{T}_{\text{E}}\text{X}$, $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$, Microsoft OfficeTM
 Math Packages MATLAB, Microsoft Visual Studio (C++)
 Data Science Packages JMP (SAS), Python, SPSS

Collaboration in Courses and Workshops

- Online Workshop on "Nonsmooth Optimization and its Application". Urmia University of Technology, Urmia, Iran, September 2020.
- "Virtual Data Science School". Ferdowsi University of Mashhad, Mashhad, Iran, August 2020.

- Online International Workshop on "Radial Basis Function: Theories, Applications and Recent Advances". Kharazmi University, Tehran, Iran, June 2020.
- Workshop on "Data Science with JMP Pro". Ferdowsi University of Mashhad, Mashhad, Iran, October 2019.
- Workshop on "Graph Theory and Applications". Ferdowsi University of Mashhad, Mashhad, Iran, May 2017.
- Workshop on "Introduction on T_EX and L^AT_EX", Ferdowsi University of Mashhad, Mashhad, Iran, (lecturer) October 2015.
- Workshop on "From xelatex to format designing". Ferdowsi University of Mashhad, 28-29 December 2011.
- Intermediate and advanced workshop of "Mathematics Education". Ferdowsi University of Mashhad, Mashhad, Iran, July 2011.
- Training course on the subject of "EFQM & BSC Relationship". TUV Rheinland Academy. Mashhad, Iran, December 2010.
- Training course on the subject of "ISO 1008:1001 Internal Audit". TUV Rheinland Academy. Mashhad, Iran, November 2010.
- Workshop on "Application of artificial intelligence in modelling and optimization". Ferdowsi University of Mashhad, September 2010.