

CURRICULUM VITAE

Dr. Davood Darvishi Salokolaei



- **Personal Data**

- Faculty Member of Payame Noor University, Iran.
- **Date of birth:** September 20, 1980.
- **Marital Status:** Married, one daughter and one boy.
- **Nationality:** Iranian.
- **Contact Information:** Department of Mathematics, Payame Noor University, P.O. Box. 19395-3697, Tehran, Iran.
- **Email:** d_darvishi@pnu.ac.ir, ds.darvishi@gmail.com, darvishidavood@yahoo.com
- **Phone/Fax:** +98-1133033225, Cell phone: +98-9112510218
- **Website:** www.Dmathpnu.ir

- **Affiliations:** Department of Mathematics, Payame Noor University, February 2008- Now.

- **Education**

- **Ph.D.** in Applied Mathematics, University of Mazandaran, Babolsar, Iran, 2016.
- **Thesis:** Solving classes of optimization problems in uncertain environment with grey parameters.
- **Supervisors:** Dr. Seyed Hadi Nasserri and Dr. Allahbakhsh Yazdani cherati
- **Advisor:** Dr. Abdolhamid Safaei Ghadikolaei
- **M.S:** Applied Mathematics, Payame Noor University, Tabriz, Iran, 2003-2006.
- **Thesis:** Application of Fuzzy Optimization in Diet
- **Supervisors:** Dr. Reza Ameri and Dr. Esmaeil Yazdany Peraei.
- **B.S:** Applied Mathematics, Department of Mathematics, University of Mazandaran, Babolsar, Iran, 1998-2002.

- **Honors and Work Experience:**

- Distinguished Researcher in Payame Noor University of Mazandaran, December, 2009.
- Distinguished Researcher in Payame Noor University of Mazandaran, December, 2012.
- Distinguished Researcher in Payame Noor University of Mazandaran, December, 2013.
- Iranian Operations Research Society (IORS) representative in Payame Noor University, 2012-...
- Iranian Fuzzy Systems Society (IFSS) representative in Payame Noor University, 2012-...
- Board of Newsletter of Iranian Operations Research Society, 2017-...
- Scientific Committee (Representative of Iranian Operations Research (IOR) Society): The 10th International Conference of Iranian Operations Research Society, May 3-5, 2017, Babolsar, Iran.
- Organizing Committee (Representative of Iranian Operations Research (IOR) Society): The 10th International Conference of Iranian Operations Research Society, May 3-5, 2017, Babolsar, Iran.

- Scientific Committee (Representative of Iranian Operations Research (IOR) Society): The 11th International Conference of Iranian Operations Research Society, May 2-4, 2018, Kermanshah, Iran.
- Executive Secretary: The National Conference on Optimization and Decision Making, 9-10 March, 2016, Babolsar, Iran.
- Executive Secretary: The 3rd National Conference on Mathematical Modeling in Research in Operations, 6-7 December, 2016, Babolsar, Iran.
- Executive Secretary: The National Conference on Mathematical Modeling in Science and Engineering, 21-22 February, 2017, Babolsar, Iran.
- Scientific Committee: The National Conference on Mathematical Modeling in Science and Engineering, 21-22 February, 2017, Babolsar, Iran.
- Member of the Executive Committee: 2th National Conference on Mathematics of Payame Noor University, 14-15 May, 2009, Sari, Iran.
- Coordinator: 2nd Payame Noor University OPEN 2011 Robotic Olympiad, 13-15 December, 2010, Mahmudabad, Iran.
- Member of the Supervisory and Evaluation Council of Mazandaran Payame Noor University, 2017-...
- Member of Scientific Research Council of Sari Mathematics House, 2018-...
- Executive manager of international center of optimization and decision making, 2017-...
- Deputy secretary general of the International Association of Grey Systems and Uncertainty Analysis, 2016- ...
- Executive Secretary: 9th International Conference on Information and Fuzzy Engineering, Kish, Iran, 2018.
- Executive Secretary: 3th National Conference on Biology, Payame Noor University, Sari, Iran, 2018.
- Director of Educational and Research Department of Basic Sciences, Payame Noor University, Mazandaran Province, Iran, 2018-2020.

● **Interest:**

- Grey System Theory,
- Grey Programming,
- Fuzzy Mathematical,
- Operations Research,
- Uncertainty,
- Multi Criteria Decision Making.

● **Publications:**

- Journals: 33 paper (2011-Now)
- Conferences: 38 paper (2006-Now)
- Research projects: 6 project (2009-Now)
- Books: 5 Book (2013-Now)
-

- **Journal papers:**

1. Darvishi, D., Teimouri, A., Nasser, S.H. (2011). Application of fuzzy optimization in diet formulation, *The Journal of Mathematics and Computer Science*, 2 (3), 459-468.
2. Vahidi, J., Darvishi, D. and Yavari, A. (2014). A model for selecting an ERP system with triangular fuzzy numbers and mamdani inference, *Journal of Mathematics and Computer Science*, 9, 46-54.
3. Nasser, S.H. and Darvishi, D. (2016). A grey approach in formulation of the diet problem, *Journal of Operational Research in its Applications*, 12 (4), 29-45.
4. Nasser, S.H., Yazdani, A.B. and Darvishi, D. (2016). A primal simplex algorithm for solving linear programming problem with grey cost coefficients, *Journal of New Researches in Mathematics*, 1 (4), 121-142.
5. Nasser, S.H. and Darvishi, D. (2017). Animal diet formulation with floating price, *Iranian Journal of Optimization*, 8 (2), 101-110.
6. Nasser, S.H., Darvishi, D. and Yazdani, A. (2017). A new approach for solving grey assignment problems, *Control and Optimization in Applied Mathematics*, 2(1), 15-28.
7. Darvishi, D., Babaei, P. and Liu, S. (2017). Grey prediction model for forecasting electricity consumption, *International Journal of Applied Operational Research*, 7 (4), 1-9.
8. Darvishi, D., Liu, S. and Nasser, S.H. (2018). A new approach in animal diet by grey system theory, *Grey Systems: Theory and Application*, 8 (2), 167-180.
9. Mahmoudi, A., Feylizadeh, M.R. and Darvishi, D. (2018). A note on "A multi-objective programming approach to solve grey linear programming", *Grey Systems: Theory and Application* 8 (1), 35-45.
10. Mahmoudi, A., Feylizadeh, M.R., Darvishi, D. and Liu, S. (2018). Grey-fuzzy solution for multi-objective linear programming with interval coefficients, *Grey Systems: Theory and Application*, 8 (3), 312-327.
11. Nasser, S.H. and Darvishi, D. (2018). Planning livestock diet with fuzzy requirements, *Journal of Information and Optimization Sciences*, 39(7), 1527-1545.
12. Darvishi, D. (2018). A new approach for solving linear programming with grey variables problem, *Iranian Journal of Operations Research*, 9(1), 85-96.
13. Nasser, S.H. and Darvishi, D. (2018). Duality results on grey linear programming problems, *The Journal of Grey System*, 30 (3), 127-142.
14. Darvishi, D. and Babaei, P. (2018). Grey prediction in linear programming problems, *International Journal of Applied Operational Research*, 9(1), 11-18.
15. Darvishi, D. and Darvishi, H. (2018). Assessing the effectiveness of knowledge management using Analytic Network Process, *International Journal of Applied Operational Research*, 9(1), 31- 40.
16. Darvishi, D. (2019). Some duality results in grey linear programming problem, *Journal of Operational Research in its Applications*, 16(3), 55-63.
17. Darvishi, D., Forrest, J. and Liu, S. (2019). A comparative analysis of grey ranking approaches, *Grey Systems: Theory and Application*, 9(4), 472-487.
18. Darvishi, D. and Vali, A. (2019). Identification and prioritization of risk in civil projects using grey systems theory, *Specialty Journal of Architecture and Construction*, 5 (2), 85-100.

19. Darvishi, D. and Mansoor Esmaili, S. (2019). A Hybrid Approach Based on AHP and FMEA Approaches for Risk Assessment of Refinery Construction Projects, *World Journal of Environmental Biosciences*, 8(4), 35-41.
20. Adak, A. K., Darvishi, D. (2019). Some properties of pythagorean fuzzy ideal of near-rings. *International Journal of Applied Operational Research*, 9(3), 1-9.
21. Darvishi, D. and Mohamadi Nasab, M. (2020). Evaluation of construction projects using fuzzy TOPSIS method, *International Journal of Engineering and Technology*, 11(6), 67-72.
22. Darvishi, D., Babaei, P. and Haydari, S. (2020). Prediction of renewable energy production using grey systems theory, *International Journal of Nonlinear Analysis and Applications*, 10, 39-51.
23. Darvishi, D. and Nasser, S.H. (2020). A Dual Simplex Method for Grey Linear Programming Problems based on Duality Results, *Grey Systems: Theory and Application*, 10(2), 145-157.
24. Saffar Ardabili, J., Darvishi, D. and PourOgghi, F. (2020). Application of center and width concepts to solving grey linear programming, *International Journal of Applied and Computational Mathematics*, 6(49), 1-12.
25. Pourofoghi, F., Saffar Ardabili, J. and Darvishi, D. (2020). A new Approach for finding an optimal solution for grey transportation problem, *International Journal of Nonlinear Analysis and Applications*, 10, 83-95.
26. Darvishi, D., and Bagheri, S.S. (2020). Evaluating factors affecting insurance customer's loyalty using fuzzy ANP and fuzzy DEMATEL methods, *The Journal of Organizational Behavior Research*, 5(2), 1-24.
27. Abedzadeh, S., Darvishi, D., and Gholami, R. (2020). On the investigation of customer relationship management competency and social media based on multi-criteria DEMATEL technique, 3(2), 469-482.
28. Yousefzadeh, H.R., Darvishi, D. and Sayadi Salar, A. (2020). Utilizing the unified ant colony algorithm by chaotic maps, *Iranian Journal of Operations Research*, 11(1), 76-92.
29. Pourofoghi, F., and Darvishi, D. (2020). Applying duality results to solve the linear programming problem with grey parameters, *Control and Optimization in Applied Mathematics*, 5(1), 15-28.
30. Darvishi, D., Forrest, J. and Liu, S. (2021). Grey linear programming: a survey on solving approaches and applications, *Grey Systems: Theory and Application*, 11(1), 110-135.
31. Adak, A. K., Darvishi, D. (2021). Some properties of rough Pythagorean fuzzy sets, *Fuzzy Information and Engineering*, .
32. Darvishi, D., and Heydari Gorji, S. (2021). A new approach to the economic problem of dumping based on game theory with grey parameters, *Innovation Management and Operational Strategies*, 2(1), 14-29.
33. Pourofoghi, F., Darvishi, D., and Saffar Ardabili, J. (2021). A new approach to find the solution of transportation problem with grey parameters. *Journal of Operational Research and Its Applications*, 18 (2), 59-73.
- 34.

▪ **Conference Papers:**

1. Drvishi, D., Ameri, R., Teimouri, A., Yazdani, E. and Akbari, E. (2006). Application of fuzzy optimization in diet formulation of dairy cows, The 6th Iranian joint congress on Fuzzy Systems and the 1th Fuzzy Systems Conference in the Muslim world, Shiraz, Iran.
2. Darvishi, D. and Nasser, S.H. (2009). Animal Diet with elastic Price, The 2th International Conference of Iranian Operations Research Society, Babolsar, Iran.
3. Darvishi, D. and Vaseghi, L. (2009). To economic agriculture by linear programming method, The 2th International Conference of Iranian Operations Research Society, Babolsar, Iran.
4. Hasanpoor, M.R., Khanmohammadi, M., Darvishi, D. and Hosseinzadeh, F. (2009). Efficacy of IT courses on performance of managers and staff with fuzzy logic, International Conference on Quality Productivity and Performance Measurement, Malaysia.
5. Drvishi, D., Ameri, R. and Teimouri, A. (2012). Optimal combination diet of young calves by fuzzy logic, The 12th Iranian Conference on Fuzzy Systems, Babolsar, Iran.
6. Mehnatfar, Y. Darvishi, D. and Tajdaran, R. (2012). Insurance companies evaluation using AHP-TOPSIS combined model in fuzzy environment, The 1st National Conference on Mathematics and Its Applications in Engineering Sciences, Jouybar, Iran.
7. Drvishi, D., Teimouri, A. and Ameri, R. (2012). Application of fuzzy cuts in animals diet, The 2th National Conference on Mathematics of Payame Noor University, Sari, Iran.
8. Vaseghi, L. and Drvishi, D. (2012). Fuzzy thinking in agricultural economics, The 2th National Conference on Mathematics of Payame Noor University, Sari, Iran.
9. Nasser, S.H. and Darvishi, D. (2014). Position of grey system theory in uncertain problems, 6th National Conference on Mathematics of Payame Noor University, Esfahan, Iran.
10. Nasser, S.H. and Darvishi, D. (2014). Application of grey systems approach in transportation problem, The 9th International Conference of Iranian Operations Research Society, Shiraz, Iran.
11. Nasser, S.H., Yazdani, A.B. and Darvishi, D. (2014). A method for solving linear programming whit grey cost coefficients, The 7th International Conference of Iranian Operations Research Society, Semnan, Iran.
12. Nasser, S.H., Yazdani, A.B. and Darvishi, D. (2014). A method for solving linear programming whit grey parameter, The 14th Iranian Conference on Fuzzy Systems, Tabriz, Iran.
13. Nasser, S.H., Yazdani, A.B., Safaei, A. and Darvishi, D. (2014). A new approach to assignment problems whit grey parameters, The 1st National Conference on Optimization and Decision Sciences, Babolsar, Iran.
14. Nasser, S.H., Darvishi, D., Bahadori, M. and Gelini moghadam, T. (2014). Study on application of fuzzy technology in medicine and health, The 14th Iranian Conference on Fuzzy Systems, Tabriz, Iran.
15. Nasser, S.H. and Darvishi, D. (2015). Grey linear programming and its applications, International Workshop of Advanced on Mathematical Sciences in Decision Sciences, China, Guangzhou.
16. Nasser, S.H. and Darvishi, D. (2015). Grey system theory and applications, International Workshop of Advanced on Mathematical Sciences in Decision Sciences, China, Guangzhou.

17. Nasser, S.H. and Darvishi, D. (2016). A new approach for ordering of grey numbers, International Conference of Mathematics and Decision science, China, Guangzhou.
18. Nasser, S.H. and Darvishi, D. (2016). New approaches to confronting with uncertainty in economic problems, 3rd International Conference on Green Economic, Babolsar, Iran.
19. Nasser, S.H. and Darvishi, D. (2016). Some fundamental results in grey liner programming, 8th National Conference on Mathematics of Payame Noor University, Khorramabad, Iran.
20. Nasser, S.H. and Darvishi, D. (2016). Optimal Decision making in animal diet formulation by uncertain approach, The 1st National Conference on Optimization and Decision Sciences, Babolsar, Iran.
21. Haydari, S., Hesami, B., Darvishi, D. and Nasser, S.H. (2016). The necessity of the use of fuzzy logic in economic analysis, 3th International Conference on Green Economic, Babolsar, Iran.
22. Nasser, S.H. and Darvishi, D. (2017). Grey systems theory, a new approach in uncertain environment, The 10th International Conference of Iranian Operations Research Society, Babolsar, Iran.
23. Mahmoudi, A., Feylizadeh, M.R., Darvishi, D. and Liu, S. (2017). A proposed algorithm for solving multi objective linear programming with interval coefficients, The 2nd International Conference on Mathematics and Decision Sciences, China, Guangzhou.
24. Darvishi, D. (2017). Some new result on calculating grey inverse matrix, The 2th International Conference on Mathematics and Decision Sciences, China, Guangzhou.
25. Darvishi, D. and Haydari, S. (2017). Economic and management decision making in the uncertain environment, The 1th National Conference on Management and Fuzzy Systems, Tehran, Iran.
26. Darvishi, D. (2017). Investigating and comparing ranking methods for interval numbers based on Boundaries, The 10th International Conference of Iranian Operations Research Society, Babolsar, Iran.
27. Darvishi, D. and Nasser, S.H. (2017). Comparison fuzzy sets theory and grey systems theory in scientific calculus, National Conference on Mathematical Modeling in Science and Engineering, Babolsar, Iran.
28. Darvishi, D. and Nasser, S.H. (2017). Uncertainty approaches in mathematical modeling, 3th National Conference on Mathematical Modeling in the Operations Research, Babolsar, Iran.
29. Darvishi, D. and Babaei, P. (2018). Application of game theory in grey forecasting model in grey linear programming, The 11th International Conference of Iranian Operations Research Society, Kermanshah, Iran.
30. Darvishi, D. and Haydari, S. (2018). Application of game theory in grey uncertain environment, The 11th International Conference of Iranian Operations Research Society, Kermanshah, Iran.
31. Darvishi, D. and Babaei, P. (2018). Rainfall prediction with grey system theory approach, The 1st National Conference on Management strategies of Water Resources and Environmental Challenges, Sari, Iran.
32. Darvishi, D., sharifi, E. and Babaei, P. (2018). Application of rough sets in uncertain environments, the 2ed National Conference on Modeling Mathematics and Statistics in Applied Studies, Ghaemshahr, Iran.

33. Darvishi, D., Babaei, P. and Sharifi, E. (2018). Study of the application of fuzzy mathematics in medical modeling, the 2ed National Conference on Modeling Mathematics and Statistics in Applied Studies, Ghaemshahr, Iran.
34. Darvishi, D., Nasser, S.H. and Liu, S. (2018). A study on order relations of interval grey numbers, International Congress of Grey Systems and Uncertainty Analysis, China, Nanjing.
35. Darvishi, D. and Liu, S. (2019). A survey of grey linear programming, The 2019 International Congress on Grey Systems and Uncertainty Analysis, Bangkok, Thailand.
36. Darvishi, D. and Mansoor Esmaili, S. (2019). Assessment of facilities and assets in refinery construction projects using AHP approach, Basic and Applied Researches in the Modern World, 29 October, Saint Petersburg, Russia.
37. Darvishi, D. and Vali, A. (2019). Risk assessment of retrofit concrete buildings by grey analytic hierarchy process, 6th International Conference on Civil, Architectural and Environmental Sciences, 19 June, Stockholm, Sweden.
38. Abedzadeh Afrapoli, S., Darvishi Salokolaei, D. and Gholami, R. (2020). The impact of social media on customer relationship capabilities by using multi-criteria DEMATEL method, Basic and Applied Researches in the Modern World, 29 October, Saint Petersburg, Russia.

39.

▪ **Research projects**

1. Project Executer: Application of Fuzzy Optimization in Diet of Dairy Cows, Payame Noor University, July 2009.
2. Project Executer: Evaluation of effectiveness of IT courses on performance of staff of Payame Noor University of Mazandaran with Fuzzy logic, Payame Noor University, January 2012.
3. Project Executer: Provide an algorithm for data envelopment analysis in data mining, Payame Noor University, January, 2013.
4. Project Executer: Differential Transform Method for Solving Partial and Ordinary differential equations, Payame Noor University, January 2013.
5. Project Executer: Application of grey systems theory in predicting problems, Payame Noor University, December, 2020.
6. Investigation of the duality problem in gray linear programming, Payame Noor University, December, 2020.

7.

▪ **Books:**

1. Basics of Operations Research, Olom rayaneh Press, Babol, Iran, 2013. (In Persian).
2. Sokote eeshgh-sorush dell, Moalefane Tehran Press, Babol, Iran, 2016(In Persian). (Literary book)
3. Uncertainty approaches with emphasis on grey systems theory, University of Mazandaran Press, Babolsar, Iran, 2020, (In Persian).
4. Decision theory in the grey environment, University of Mazandaran Press, Babolsar, Iran, 2021, (In Persian).
5. Research Reference, Andisheh Ara Press, Tehran, Iran, 2020, (In Persian)