



Mehdi Allahdadi

Associate Professor

Faculty : Mathematics, Statistics and Computer Science

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Address : Dept.of Mathematics and its applications, Faculty of Mathematics, Statistics and Computer Science, University of Sistan and Baluchestan, Daneshgah Ave., Zahedan, Iran.

Education

- ✓ B.Sc, Applied Mathematics,Sistan and Baluchestan University - 2002
- ✓ MS, Applied Mathematics - Numerical Analysis,Sistan and Baluchestan University - 2004
- ✓ PhD, Applied Mathematics,Sistan and Baluchestan University - 2012
- ✓ PhD, Applied Mathematics,Sistan and Baluchestan University - 2012

Courses

- | | |
|---|--|
| 1. Differential equations | 2. Numerical calculations |
| 3. Operational research | 4. Numerical analysis 1 |
| 5. Numerical linear programming | 6. Discreate mathematic |
| 7. Numerical linear algebra | 8. Numerical linear algebra |
| 9. Topics in Interval Planning 1 | 10. Operational Research |
| 11. Composition principles | 12. Mathematics2 |
| 13. Operations research (1) | 14. Operations research 2 |
| 15. Mathematics 2 | 16. Mathematics1 |
| 17. Advanced mathematicl software | 18. Operation Research Fundamentals |
| 19. Nonlinear optimization | 20. Linear optimization |
| 21. Topics in multi-criteria decision making | 22. Topics in Interval Planning 2 |
| 23. Discussions in Interlinear Linear Programming | 24. Topics on interval non-linear optimization |
| 25. Composition principles | 26. Multiple - Objective Optimization |
| 27. convex optimization | 28. Inexact optimization |

Master Thesis

1. Multi- objective fixed-charge transportation problem under fuzzy rough uncertainty
رضا ضرورت خواه, [Mehdi Allahdadi]
نیمسال دوم سال تحصیلی 1403-1404
2. Multi-objective programming under uncertainty with game theory approach; Case Study: allocation of water resources in Sistan region
فرهاد براهونئی, [Mehdi Allahdadi, Ali Sardarshahraki, Zahra Ghaffari moghaddam]
نیمسال اول سال تحصیلی 1403-1404
3. A survey on transportation problems under rough interval uncertainty
طیبه دهقانی, [Mehdi Allahdadi,]
نیمسال اول سال تحصیلی 1403-1404
4. Multi objective fractional programming under uncertainty conditions
محمد مشهدی, [Farhad Hamidi, Mehdi Allahdadi]
نیمسال دوم سال تحصیلی 1403-1402
5. Application of Linear Fractional Programming Problem with Fuzzy Nature in Industry Sector
محمدعلی ندرت زهی, [Mehdi Allahdadi]
نیمسال اول سال تحصیلی 1403-1402
6. A solving approach for multi-objective and fuzzy multi-objective linear fractional programming and application to an agricultural planting structure optimization problem
زهرا محمودی راد, [Mehdi Allahdadi, Farhad Hamidi, Faranak Hosseinzadeh saljooghi, Nader Kouhestani]
نیمسال دوم سال تحصیلی 1401
7. Optimal model predictive control in the dynamic systems with uncertainty
الناز حسینی, [Mehdi Allahdadi, Samaneh Soradi zeid, Hamed Torabi]
نیمسال اول سال تحصیلی 1402-1401
8. Optimal model predictive control in the dynamic systems with uncertainty
الناز حسینی, [Mehdi Allahdadi, Samaneh Soradi zeid, Hamed Torabi]
نیمسال اول سال تحصیلی 1402-1401
9. Solving optimal control problem with fractional order derivatives under uncertainty
طاهره شکوهی, [Mehdi Allahdadi, Samaneh Soradi zeid]
نیمسال اول سال تحصیلی 1402-1401
10. Solving optimal control problem with fractional order derivatives under uncertainty
طاهره شکوهی, [Mehdi Allahdadi, Samaneh Soradi zeid]
نیمسال اول سال تحصیلی 1402-1401
11. Solving fuzzy problems under the concept of granular differentiation
سمیه رضائی زاده, [Mehdi Allahdadi]
نیمسال دوم سال تحصیلی 00-01
12. Linear programming of periods under conversions, evaluation of weak optimization and strong boundaries in it
محمد مشهدی, [Mehdi Allahdadi]
نیمسال دوم سال تحصیلی 99-00

13. Karush-Kuhn-Tucker conditions for interval and fuzzy optimization in several variables under total and directional generalized differentiability

[Mehdi Allahdadi], میثم حمیدی نژاد

نیمسال اول سال تحصیلی 99-00

14. Feasibility-optimal value bounds of the objective function- optimality

[Hassan Mishmast Nehi, Mehdi Allahdadi], فاطمه سالاری پورشریف آباد

نیمسال اول سال تحصیلی 99-00

15. Solving a type of nonlinear interval programming problems

[Hassan Mishmast Nehi, Mehdi Allahdadi, Faranak Hosseinzadeh saljooghi, Farhad Hamidi, sanaz rivaz, Seyed Mahdi Amir Jahanshahi], سمیه امیرمحمودی

نیمسال اول سال تحصیلی 99-00

16. Fuzzy efficient iterative method for multi-objective linear fractional programming problems

[Mehdi Allahdadi], علی کیخا

نیمسال دوم سال تحصیلی 98-99

17. Solving a type of nonlinear interval programming problems

[Hassan Mishmast Nehi, Mehdi Allahdadi], سمیه امیرمحمودی

نیمسال دوم سال تحصیلی 98-99

18. Multiobjective interval linear programming in admissible-order vector space

[Mehdi Allahdadi], مریم سرگزی

نیمسال دوم سال تحصیلی 98-99

19. Feasibility-optimal value bounds of the objective function- optimality

[Mehdi Allahdadi, Hassan Mishmast Nehi], فاطمه سالاری پورشریف آباد

نیمسال اول سال تحصیلی 98-99

20. solving a type of nonlinear interval programing problems

[Hassan Mishmast Nehi, Mehdi Allahdadi], سمیه امیرمحمودی

نیمسال اول سال تحصیلی 98-99

21. Multi-objective programming under uncertainty

[Mehdi Allahdadi], ایدا باتمیزکارزون

نیمسال اول سال تحصیلی 98-99

22. Multiobjective interval linear programming in admissible-order vector space

[Mehdi Allahdadi], مریم سرگزی

نیمسال اول سال تحصیلی 98-99

23. Some Extensions of Bi level linear programming

[Farhad Hamidi, Mehdi Allahdadi], سیده فرخنده طیب نسب

نیمسال دوم سال تحصیلی 97-98

24. Feasibility-optimal value bounds of the objective function- optimality

[Mehdi Allahdadi, Hassan Mishmast Nehi], فاطمه سالاری پورشریف آباد

نیمسال دوم سال تحصیلی 97-98

25. Solution of multi-objective linear programming problems in interval-valued intuitionistic fuzzy environment

[Mehdi Allahdadi], سمینه بامری

نیمسال دوم سال تحصیلی 97-98

26. Efficient solution concepts and their application in uncertain multi objective programming

سمیه پودینه, [Mehdi Allahdadi, Aida Batamiz]

نیمسال دوم سال تحصیلی 97-98

27. An ensemble framework for assessing solution of interval programming problems

جابر مرادقلی, [Faranak Hosseinzadeh saljooghi, Mehdi Allahdadi]

نیمسال دوم سال تحصیلی 97-98

28. Multi-objective programming under uncertainty

ایدا باتمیزکارزون, [Mehdi Allahdadi]

نیمسال دوم سال تحصیلی 97-98

29. Some Extensions of Bi level linear programming

سیده فرخنده طیب نسب, [Farhad Hamidi, Mehdi Allahdadi]

نیمسال اول سال تحصیلی 97-98

30. Feasibility-optimal value bounds of the objective function- optimality

فاطمه سالاری پورشریف اباد, [Mehdi Allahdadi]

نیمسال اول سال تحصیلی 97-98

31. Triangular fuzzy number, multi objective programming, Bi-

امیر ملکی, [Mehdi Allahdadi]

نیمسال اول سال تحصیلی 97-98

32. Multi-objective programming under uncertainty

ایدا باتمیزکارزون, [Mehdi Allahdadi]

نیمسال اول سال تحصیلی 97-98

33. Obtaining methods of optimal solutions set of interval linear programming problem

حسنعلی عشایری نسب, [Hassan Mishmast Nehi, Mehdi Allahdadi]

نیمسال دوم سال تحصیلی 95-96

34. Obtaining methods of optimal solutions set of interval linear programming problem

حسنعلی عشایری نسب, [Hassan Mishmast Nehi, Mehdi Allahdadi]

نیمسال اول سال تحصیلی 95-96

35. Obtaining methods of optimal solutions set of interval linear programming problem

حسنعلی عشایری نسب, [Hassan Mishmast Nehi, Mehdi Allahdadi]

نیمسال دوم سال تحصیلی 95-94

Journals Papers

2025

1. Solving optimal control problems under interval uncertainty using robust model predictive controls

Mehdi Allahdadi, Samaneh Soradi zeid, Hamed Torabi, Elnaz Hosseini

Iranian Journal of Fuzzy Systems Volume: (22) 147 - 165

2. Optimal control of fractional differential equations with interval uncertainty

Tahereh Shokuhi, Mehdi Allahdadi, Samaneh Soradi zeid

Computational Methods for Differential Equations Volume: (13) 538 - 553

2024

3. Refinements the solutions of fuzzy optimal control problems

Elnaz Hosseini, Mehdi Allahdadi, Samaneh Soradi zeid, Hamed Torabi

International Journal of Dynamics and Control Volume: (12) 1860 - 1873

4. Accurate solutions of interval linear quadratic regulator optimal control problems with fractional-order derivative

Mehdi Allahdadi, Samaneh Soradi zeid, Tahereh Shokuhi

SOFT COMPUTING Volume: (28) 6537 - 6554

5. SOME NEW RESULTS ON ROUGH INTERVAL LINEAR PROGRAMMING PROBLEMS AND THEIR APPLICATION TO SCHEDULING AND FIXED-CHARGE TRANSPORTATION PROBLEMS

Mehdi Allahdadi, Sanaz Rivaz

RAIRO-OPERATIONS RESEARCH Volume: (58) 3697 - 3714

6. Presenting Two New Methods for Solving Linear Interval Optimal Control Problems Using the Resilience Approach of Control Signal

Elnaz Hosseini, Mehdi Allahdadi, Samaneh Soradi zeid

Tasmingiri va Tahqiq dar Amaliyyat Volume: (9) 797 - 815

2023

7. حل مسائل کنترل بهینه خطی درجه دوم تحت عدم قطعیت بازه ای

Tahereh Shokuhi, Samaneh Soradi zeid, Mehdi Allahdadi

Journal of Fuzzy Systems and Applications Volume: (6) 245 - 267

2022

8. Iterative algorithms for determining optimal solution set of interval linear fractional programming problem

Fatemeh Salary pour sharef abad, Mehdi Allahdadi, Hassan Mishmast Nehi

Filomat Volume: (36) 2237 - 2267

9. Two iterative algorithms for determining strongly and weakly efficient solutions of interval multi objective linear fractional programming problem (in Persian)

Mehdi Allahdadi, Fatemeh Salary pour sharef abad, Hassan Mishmast Nehi

Tasmingiri va Tahqiq dar Amaliyyat Volume: (7) 17 - 42

10. Optimal values range of interval polynomial programming problems

Somayeh Amirmahmoodi, Hassan Mishmast Nehi, Mehdi Allahdadi

International Journal of Nonlinear Analysis and Applications Volume: (13) 1917 - 1929

2021

11. Finding efficient solutions in the interval multi-objective linear programming models

Aida Batamiz, Mehdi Allahdadi

Yugoslav Journal of Operations Research Volume: (31) 95 - 119

12. SOLVING TRI-LEVEL LINEAR PROGRAMMING PROBLEM BY A NOVEL HYBRID ALGORITHM

Farkhondeh Tayebnasab, Farhad Hamidi, Mehdi Allahdadi

Turkish World Mathematical Society Journal of Applied and Engineering Mathematics Volume: (11) 101 - 112

13. Generation of some methods for solving interval multi-objective linear programming models

Mehdi Allahdadi, Aida Batamiz

Opsearch Volume: (58) 1 - 39

14. Determination of Feasible Solutions of the Interval Linear Fractional Programming Problem (in Persian)

Fatemeh Salary pour sharef abad, Mehdi Allahdadi, Hassan Mishmast Nehi

Journal of Operational Research in Its Applications Volume: (70) 31 - 48

15. Joint Power allocation and target detection in distributed MIMO radars

Safieh Jebali, Hengameh Keshavarz, Mehdi Allahdadi

IET Radar Sonar and Navigation Volume: (15) 1433 - 1447

2020

16. A New Approach for Solving Fully Fuzzy Bilevel Linear Programming Problems

Farkhondeh Tayebnasab, Farhad Hamidi, Mehdi Allahdadi

International Journal of Industrial Mathematics Volume: (12) 1 - 11

17. Solving methods for interval linear programming problem a review and an improved method

Hassan Mishmast Nehi, Hasanali Ashayerinasab, Mehdi Allahdadi

Operational Research Volume: (20) 1205 - 1229

18. Obtaining Efficient Solutions of Interval Multi-objective Linear Programming Problems

Aida Batamiz, Mehdi Allahdadi, Milan Hlad?k

International Journal of Fuzzy Systems Volume: (22) 873 - 890

19. Determining the Optimal Value Bounds of the Objective Function in Interval Quadratic Programming Problem with Unrestricted Variables in Sign (in Persian)

Mahdieh Ghorbani HormozdAbadi, Hassan Mishmast Nehi, Mehdi Allahdadi

Journal of Operational Research in Its Applications Volume: (17) 49 - 65

20. Optimal solutions set in interval quadratic programming problems

Mahdieh Ghorbani, Hassan Mishmast Nehi, Mehdi Allahdadi

Journal of Mathematical Extension Volume: (14) 189 - 205

21. Interval linear fractional programming: optimal value range of the objective function

Fatemeh Salary pour sharef abad, Mehdi Allahdadi, Hassan Mishmast Nehi

COMPUTATIONAL and APPLIED MATHEMATICS Volume: (39) 1 - 17

2019

22. A modified two-step method for solving interval linear programming problems

Mehdi Allahdadi

International Journal of Mathematics in Operational Research Volume: (15) 181 - 196

23. An updated two-step method for solving interval linear programming: A case study of the air quality management problem

Mehdi Allahdadi, Aida Batamiz

Iranain Journal of Numerical Analysis and Optimization Volume: (9) 207 - 230

2018

24. Solving the interval linear programming problem A new algorithm for a general case

Hasanali Ashayerinasab, Hassan Mishmast Nehi, Mehdi Allahdadi

EXPERT SYSTEMS WITH APPLICATIONS Volume: (93) 39 - 49

25. Bankruptcy assessment by using a new approach to game theory and interval programming

Aida Batamiz, Mehdi Allahdadi

Volume: (3) 33 - 42

26. test-tarfi

Amin Rahati, Mehdi Allahdadi

CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS Volume: (20) 1 - 10

27. A New Method for Solving the Fully Interval Bilevel Linear Programming Problem with Equal Constraints

Farkhondeh Tayebnasab, Farhad Hamidi, Mehdi Allahdadi

Volume: (4) 51 - 60

28. An improved three-step method for solving the interval linear programming problems

Mehdi Allahdadi, Chongyang Deng

Yugoslav Journal of Operations Research Volume: (28) 435 - 451

2017

29. New solution space for solving the interval linear programming model

Mehdi Allahdadi, Hassan Mishmast Nehi

Journal of Operational Research in Its Applications Volume: (53) 111 - 121

2016

30. Solving the interval linear programming problems by a new approach

Mehdi Allahdadi, Hassan Mishmast Nehi

ICIC Express Letters Volume: (10) 1 - 9

31. Improving the modified interval linear programming method by new techniques

Mehdi Allahdadi, Hassan Mishmast Nehi, Hasanali Ashayerinasab,

INFORMATION SCIENCES Volume: (339) 224 - 236

32. Solving fuzzy slack-based measure of efficiency model by possibilistic programming approach

, Mehdi Allahdadi,

International Journal of Operational Research Volume: (27) 502 - 512

33. Monte Carlo Simulation for Computing the Worst Value of the Objective Function in the Interval Linear Programming

Mehdi Allahdadi,

International Journal of Applied and Computational Mathematics Volume: (2) 509 - 518

2015

34. Solving Interval Linear Equations with Modified Interval Arithmetic

, Mehdi Allahdadi

British Journal of Mathematics Computer Science Volume: (10) 1 - 8

35. The optimal value bounds of the objective function in the interval linear programming problem

Mehdi Allahdadi, Hassan Mishmast Nehi

Chiang Mai Journal of Science Volume: (42) 501 - 511

36. Fuzzy multi objective linear programming problem with imprecise aspiration level and parameters

, Mehdi Allahdadi, Hassan Mishmast Nehi

International Journal of Optimization and Control: Theories and Applications Volume: (5) 81 - 86

2014

37. Possibilistic programming with L-R fuzzy number coefficients

Mehdi Allahdadi

Annals of Fuzzy Mathematics and Informatics Volume: (7) 745 - 753

38. New method for solving fuzzy linear programming problem

mohsen hekmatnia, Mehdi Allahdadi, Hosein Zehtab

Annals of Fuzzy Mathematics and Informatics Volume: (7) 891 - 900

39. NEW COMPARISON OF INTERVAL NUMBERS

Mehdi Allahdadi

International Journal of Applied Mathematics Volume: (27) 567 - 571

2011

40. NUMERICAL SOLUTION OF STOCHASTIC DIFFERENTIAL EQUATION CORRESPONDING TO CONTINUOUS DISTRIBUTIONS

, , Mehdi Allahdadi

Communications of the Korean Mathematical Society Volume: (26) 709 - 720

Conferences Papers

2023

1. Rough interval linear programming problems

Mehdi Allahdadi, sanaz Rivaz

2. The solution of the interval optimal control problem using the LU order relation

Tahereh Shokuhi, Mehdi Allahdadi, Samaneh Soradi zeid

2017

3. A new algorithm to obtain the optimal solution set of the interval linear programming

10th International Conference of Iranian Operations research society

Hasanali Ashayerinasab, Hassan Mishmast Nehi, Mehdi Allahdadi