



Amirkabir University of Technology
(Tehran Polytechnic)



Esmail Khorram

Professor
Department of Mathematics and Computer
Science
Statistics

Email:
eskhor@aut.ac.ir

Phone:

h-index (Scopus):
20

Citations (Scopus):
1320

Supervised MSc Theses

#	Thesis title	By	Date
1	Clustering and classification of big data with dimensional reduction methods	Mana Mobasheri & Esmail Khorram	April 2021
2	Reliability evaluation of a multi-state air transportation network meeting multiple travel demands	Joul Kanjo & Esmail Khorram	August 2020
3	Reliability Evaluation of systemActuator	Mohammad Reza Dastjerdeshfahani & Esmail Khorram	July 2020
4	using a new method for generating distribution and its applications	Maryam Aliabadi & Esmail Khorram	January 2020
5	Robust multiobjective optimization and some of its applications	Mahdiyeh Dolat Javid & Esmail Khorram	September 2019
6	An approximation to periodic investment problems with stochastic drift	Siamak Moghimi Kandelousi & Esmail Khorram	July 2019
7	Strongly Proper Efficient Solutions : Efficient Solutions with bounded Trade-Offs	Hamed Sharifpour & Esmail Khorram	September 2018
8	Characterizing ϵ -properly efficient solutions	Pouya Aghaei Pour & Esmail Khorram	June 2018
9	On Adaptive Type-II Progressively Hybrid Censored Competing Risks Data	Arefe Asadi & Esmail Khorram	February 2018

10	Stress- Strength Reliability of a tow -parameter Bathtub-shaped Lifetime Distribution Based On Progressively censored Sampes	Farid Yari & Esmale Khorram	February 2018
11	robustness for multi-objective optimization problems	Reza Farahmand & Esmale Khorram	February 2018
12	A modified epsilon -constraint method for multi-objective mathematical integer programming problems	Jassem Fatahi & Esmale Khorram	October 2017
13	A New Scalarization Metod for Finding the Efficent Frontier in Non-convex Multi-objective Problems	Fereshteh Akbari & Esmale Khorram	October 2017
14	Solving a Lexicographic Multiobjective Optimization Problem with Relaxation of constraints	Saeed Ahmadi & Esmale Khorram	January 2017
15	characterization of ϵ -properly efficient solutions	Hamed Rastgordani & Esmale Khorram	January 2017
16	The exact confidence intervals for exponential mean under life-test with time constraints using pivoting method the CDF	Hajar Jasoor Gharehbagh & Esmale Khorram	January 2017
17	A Labelling Algorithm for the Linear Fractional Assignment Problem	Mohammadali Hasanloo & Esmale Khorram	October 2015
18	Some Combined Scalarizing Methods for Multiobjective Programming Problems	Maryam Nazari & Esmale Khorram	October 2015
19	Reliability of a coherent system with p components subjected to q different independent stresses	Hamideh Mohammadi & Esmale Khorram	October 2015
20	INFERENCE AND OPTIMAL CENSORING SCHEMES FOR PROGRESSIVELY CENSORED BIRNBAUM-SAUNDERS DISTRIBUTION	Roghayeh Mohammadhosseini Nigabadi & Esmale Khorram	October 2014
21	some multiobjective nonlinear optimization problem subject to fuzzy relations constraints	Mahboubeh Nezhadmoghaddam & Esmale Khorram	October 2014
22	introducing a bivariate pareto model and its properties	Ali Hedayati & Esmale Khorram	October 2014
23	Bayes Estimation For The Marshall-Olkin Bivariate Weibull Distribution	Reza Jahangiri & Esmale Khorram	October 2014
24	ON LEAST ABSOLUTE DEVIATION ESTIMATORS FOR ONE DIMENSIONAL CHIRP MODEL	Keyvan Mehdi & Esmale Khorram	September 2014
25	multi objective approach for robust airline scheduling	Mahdieh Ahmadi Khavah & Esmale Khorram	September 2014
26	:Generating properly efficient points in multi-objective programs by the nonlinear weighted sum scalarization method	Wahed Mohammadi & Esmale Khorram	September 2014
27	Connectedness of Efficient Solutions in Multiple Objective Combinatorial Optimization	Samaneh Mohamadi Nasab & Esmale Khorram	October 2013
28	A compromise solution for the multi-objective stochastic linear programming under partial uncertainly	Fatameh Tajik & Esmale Khorram	October 2013
29	DISCRIMINATING BETWEEN THE WEIBULL AND LOG-NORMAL DISTRIBUTIONS FOR TYPE -2 CENSORED DATA	Zeynab Gholami Kiaee & Esmale Khorram	October 2013
30	parameter estimation of the hybrid censored log-normal distribution	Hosein Abbaszadeh & Esmale Khorram	October 2013
31	optimizing the rank position of the dmu as secondary goal in DEA cross evaluation	Mina Mirzaeifar & Esmale Khorram	October 2013

32	absolute continuous bivariate generalized exponential distribution	Fatemeh Ghaderi Nezhad & Esmale Khorram	September 2013
33	Improving the Efficiency of Epsilon-Dominance Based Grids	Hossein Baqerzadeh & Esmale Khorram	September 2013
34	Computing the Pareto frontier of a bi-objective bi-level linear problem using a multiobjective mixed-integer programming algorithm	Vahid Borji & Esmale Khorram	September 2013
35	Improving the computational efficiency in a global formulaion(GLIDE) for interactive multiobjective optimization	Mohammad Ilati & Esmale Khorram	October 2012
36	time truncated group acceptance sampling plans for generalized exponential distribution	Nafise Fateri & Esmale Khorram	October 2012
37	Global formulation for interactive multiobjective optimization	Azam Lotfi & Esmale Khorram	October 2012
38	some new bivariate distribution with weighted exponential marginals and its multivariate generalization	Morad Moradi & Esmale Khorram	October 2012
39	A two phase method for multi-objective integer programming and its application to the assignment problem with three objectives	Mehraneh Gholami & Esmale Khorram	October 2012
40	Deriving the DEA FRONTIER FOR TWO STAGE PROCESSES	Fariba Kheyrolahpoor & Esmale Khorram	February 2012
41	PREDICTION for weighted exponential distribution based on progressively type II censoring on copeting risk data	Zahra Sadat Meshkani Farahani & Esmale Khorram	January 2012
42	Generalized logistic distributions	Salman Babai & Esmale Khorram	January 2012
43	An interactive technique in multiobjective optimization based on the nadir point	Zeinab Khodae & Esmale Khorram	September 2011
44	Queues where customers of one queue act as servers of the queue	Adnan Mohamadi & Esmale Khorram	March 2011
45	Some developed models of weibull distribution	Elaheh Kord & Esmale Khorram	February 2011
46	Robust optimization for general nonlinear programming	Azam Soleimani & Esmale Khorram	December 2010
47	Multiobjective optimization using single objective formulations	Kazhal Khaledian & Esmale Khorram	September 2010
48	Primal -dual simplex method for multiobjective linear programming	Mahdi Ahmadi & Esmale Khorram	December 2009
49	on solving multiobjective bin packing problems using evolutionary particle swarm obtimization	Mahroo Ehsani & Esmale Khorram	December 2009
50	description of properties and applications ith order statistics function from an arbitrary population with a random number of random variables	Shirin Shoaee & Esmale Khorram	September 2009
51	Characterization of the Dirichlet Distribution on symmetric matrices	Nasibeh Ahmadi & Esmale Khorram	December 2008
52	Partial backloging inventory Lot-size models for deteriorating items with fluctuating demand under	Atoosa Karimi Bakhtiari & Esmale Khorram	November 2008
53	Multicriteria Approach to bilevel optimization	Hasan Goodarzi & Esmale Khorram	November 2008

54	On min-norm and min-max methods ooof multi -objective optimization	Baratolah Ghaznavi Ghasooni & Esmale Khorram	September 2008
55	USING INTERIOR POINT ALGORITHMS FOR SEMI-DEFINITE PROGRAMMING	Majid Jaberipour & Esmale Khorram	January 2008
56	SOME SPECIFIC TYPES OF FUZZY RELATION EQUATIONS (ON TRIANGULAR NORMS)	Zahra Mirzabeiglou & Esmale Khorram	October 2007
57	MULTI-OBJECTIVE OPTIMIZATION PROBLEMS WITH FUZZY RELATION CONSTRAINTS	Maryam Gholami Soroush & Esmale Khorram	October 2007
58	A new lifetime distribution with decreasing failure rate	Manijeh Abbaspour & Esmale Khorram	October 2007
59	Goodness of fit and variable selection in the fuzzy multiple linear regression	Saeed Ariyafar & Esmale Khorram	July 2007
60	DEGREE OF SCALE ECOMOMIES AND CONGESTION A UNIFIED DEA APPROACH	Saeed Khairi & Esmale Khorram	February 2007
61	cluster Qutlier and regression Fixed point cluster	Mahsa Hassanzadeh Bashtian & Esmale Khorram	November 2006
62	ESTIMATING THE FUNCTIONAL RELATIONSHIPS FOR QUALITY FUNCTION DEPLOYMENT UNDER UNCERTAINTIES	Atefeh Razaghnia Karoee & Esmale Khorram	November 2006
63	OPTIMIZATION OF FUZZY RELATION EQUATION	Elyas Shivanian & Esmale Khorram	November 2006
64	MULTI-OBJECTIVE OPTIMIZATION PROBLEMS WITH FUZZY RELATION EQUATION	Hasan Zarei & Esmale Khorram	November 2006
65	Emprical method of moments and its applications	Azra Divani & Esmale Khorram	December 2005
66	Return to scale in different DEA models	Fatemeh Dadkhah & Esmale Khorram	September 2005
67	The practice of Delta - Gamma Var: Implementing the quadratic	Farideh Movafegh & Esmale Khorram	January 2005
68	A generalized dual phase-2 simplex algorithm	Akbar Eghtesadi Shirehjini & Esmale Khorram	December 2004
69	Light traffic in a cellular system with mobile subscribers and its applications	Malihe Effasti Chitgar & Esmale Khorram	November 2004
70	Insensitive light traffic in a cellular system with mobile	Navideh Modarresi & Esmale Khorram	November 2004
71	An effcient simplex type alorythm for sparse and dens linier programs	Abdol Reza Piriaee & Esmale Khorram	September 2004
72	Genetic algorithm for nonlinear optimization problem with fuzzy relation constraints	Amin Ghodousian & Esmale Khorram	November 2003
73	Traffic equilibrium problem with route spesific costs formulation and algorithms	Rohoallah Taghaodi Josheghani & Esmale Khorram	November 2003
74	Sensitivity analysis of traffic equilivbria	Esmail Keshavarz & Esmale Khorram	November 2003
75	A sales fore casting system based on fuzzy neural network with initial weights generated by genetisc algorithm	Akram Ahmadvand & Esmale Khorram	November 2003

Books

#	Title	Author(s)	Publisher country	publication date	version
Portal Records					
1	Linear Programming and Network Flows	Esmaille Khorram	Iran (Islamic Republic of)	September 2006	2
2	Linear Programming and Network Flows	Esmaille Khorram	Iran (Islamic Republic of)	April 2010	1

Journal Papers

Portal Records

- 1 Uoseph Hamdi Salemi, Esmaille Khorram, Nadarajah, S.B, "Sensitivity analysis of censoring schemes in progressively type-II right censored order statistics", OPSEARCH, October 2019 Vol. 0, Num. 0, Page 1-27, October 2019,
- 2 Esmaille Khorram, Parvin Nazari, Tarzanagh, Davoud Ataee, "Adaptive online distributed optimization in dynamic environments", OPTIMIZATION METHODS & SOFTWARE, August 2019 Vol. 0, Num. 0, Page 0-0, August 2019,
- 3 Shirin Shoaei, Esmaille Khorram, "Survival analysis for a new compounded bivariate failure time distribution in shock and competing risk models via an EM algorithm", COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, May 2019 Vol. 0, Num. 0, Page 1-31, May 2019,
- 4 Homaei, H, Mahdavi, I., Esmaille Khorram, Tajdin, A, "Product quality improvement and air pollutant emission reduction in a mining metal three-stage supply chain under cap-and-trade regulation", Advances in Production Engineering & Management, March 2019 Vol. 14, Num. 12, Page 80-92, March 2019,
- 5 Esmaille Khorram, Hadi Mohammadi Zarandini, "A Cross Decomposition Approach for the Optimization of the Petroleum Product Supply Chain", INDUSTRIAL ENGINEERING AND MANAGEMENT SYSTEMS, March 2019 Vol. 18, Num. 1, Page 132-142, March 2019,
- 6 Azam Dolatnezhadsomarin, Esmaille Khorram, Latif Pourkarimi, "Efficient Algorithms for Solving Nonlinear Fractional Programming Problems", FILOMAT, February 2019 Vol. 33, Num. 7, Page 2149-2179, February 2019,
- 7 Esmaille Khorram, Zahra Sadat Meshkani Farahani, Ganjali, Mojtaba, Taban Baghfalaki, "Longitudinal data analysis in the presence of informative sampling: weighted distribution or joint modelling", JOURNAL OF APPLIED STATISTICS, January 2019 Vol. 46, Num. 12, Page 2111-2127, January 2019,
- 8 Fereshteh Akbari, Ghaznavi, M, Esmaille Khorram, "Optimality conditions via a unified direction approach for (approximate) efficiency in multiobjective optimization", OPTIMIZATION METHODS & SOFTWARE, January 2019 Vol. *, Num. 0, Page 1-26, January 2019,
- 9 Fereshteh Akbari, Ghaznavi, M, Esmaille Khorram, "A Revised Pascoletti–Serafini Scalarization Method for Multiobjective Optimization Problems", JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS, August 2018 Vol. 178, Num. 2, Page 560-590, August 2018,
- 10 Azam Dolatnezhadsomarin, Esmaille Khorram, "Two efficient algorithms for constructing almost even approximations of the Pareto front in multi-objective optimization problems", ENGINEERING OPTIMIZATION, May 2018 Vol. 0, Num. 0, Page 0-0, May 2018,
- 11 Zahra Sadat Meshkani Farahani, Esmaille Khorram, Mojtaba Ganjali, "A Comparison of Using Weighted Distribution and Joint Modelling for Analysing Non-ignorable Missing Responses", COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, November 2017 Vol. 0, Num. 0, Page 0-0, November 2017,
- 12 Salman Babayi, Esmaille Khorram, "Inference of $R = P[X < Y]$ for skew normal distribution", COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, October 2017 Vol. 46, Num. 20, Page 10315-10326, October 2017,

- 13 Salman Babayi, Esmail Khorram, "Inference of stress-strength for the Type-II generalized logistic distribution under progressively Type-II censored samples", COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, July 2017 Vol. 0, Num. 0, Page 1-20, July 2017,
- 14 - Kouchakinejad, Fateme, Mashinchi, M., Esmail Khorram, "Fuzzy multi-objective optimization of linear functions subject to max-arithmetic mean relational inequality constraints", Scientia Iranica, July 2017 Vol. 24, Num. 3, Page 1561-1570, July 2017,
- 15 Mottaghi, A, Ebrahimnejad, A, Ezzati, R, Esmail Khorram, "A data envelopment analysis based approach for target setting and resource allocation: Application in gas companies", HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, December 2016 Vol. 45, Num. 5, Page 1553-1578, December 2016,
- 16 Soqra Khoshkhabar-Amiranloo, Esmail Khorram, "Scalarization of Levitin–Polyak well-posed set optimization problems", OPTIMIZATION, October 2016 Vol. 66, Num. 1, Page 113-127, October 2016,
- 17 Karimi Balla, Esmail Khorram, Mahdi Moeeni, "Identification of Congestion by Means of Integer-Valued Data Envelopment Analysis", COMPUTERS & INDUSTRIAL ENGINEERING, August 2016 Vol. 98, Num. 0, Page 513-521, August 2016,
- 18 Shirin Shoae, Esmail Khorram, "Statistical inference of $R = P(Y < X)$ for Weibull distribution under Type-II progressively hybrid censored data", JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, June 2016 Vol. 86, Num. 18, Page 3815-3834, June 2016,
- 19 A.Mottaghi, R.Ezzati, Esmail Khorram, "A new method for solving Fuzzy linear programming problems based on the fuzzy linear complementary problem (FLCP)", INTERNATIONAL JOURNAL OF FUZZY SYSTEMS, April 2016 Vol. 17, Num. 2, Page 236-245, April 2016,
- 20 Mehrdad Ghaznavi, Mohammad Ilati, Esmail Khorram, "An interactive algorithm for solving multiobjective optimization problems based on a general scalarization technique", Iranian Journal of Numerical Analysis and Optimization, April 2016 Vol. 6, Num. 1, Page 79-101, April 2016,
- 21 Z.Valizadeh, Esmail Khorram, "Linear Fractional multi-objective optimization problems subject to fuzzy relational equations with the max-average composition", Applied and Computational Mathematics, March 2016 Vol. 4, Num. 0, Page 20-30, March 2016,
- 22 Soqra Khoshkhabar-Amiranloo, Esmail Khorram, M. Soleimani-Damaneh, "Nonlinear scalarization functions and polar cone in set optimization", OPTIMIZATION LETTERS, March 2016 Vol. 0, Num. 0, Page 1-15, March 2016,
- 23 Fariba Hemati Gazafi, Esmail Khorram, "On Adaptive Progressively Type-II Censored Competing Risks Data", COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, December 2015 Vol. ***, Num. 0, Page 0-0, December 2015,
- 24 Soqra Khoshkhabar-Amiranloo, Esmail Khorram, "Scalar characterizations of cone-continuous setvalued maps", APPLICABLE ANALYSIS, November 2015 Vol. **, Num. 0, Page 0-0, November 2015,
- 25 Reza Ezzati, Esmail Khorram, Reza Enayati, "A new algorithm to solve fully fuzzy linear programming problems using the MOLP problem", APPLIED MATHEMATICAL MODELLING, November 2015 Vol. 39, Num. 0, Page 3183-3193, November 2015,
- 26 Soqra Khoshkhabar-Amiranloo, Esmail Khorram, "Pointwise well-posedness and scalarization in set optimization", MATHEMATICAL METHODS OF OPERATIONS RESEARCH, June 2015 Vol. 0, Num. 0, Page 0-0, June 2015,
- 27 Fateme Ghomanjani, Esmail Khorram, "Approximate solution for quadratic Riccati differential equation", Journal of Taibah University for Science, May 2015 Vol. **, Num. 0, Page 0-0, May 2015,
- 28 A.Ghane_Kanafi, Esmail Khorram, "A new scalarization method for finding the efficient frontier in non-convex multi-objective problems", APPLIED MATHEMATICAL MODELLING, April 2015 Vol. 0, Num. 0, Page 0-0, April 2015,
- 29 Majid Jaberipour, Esmail Khorram, Behrooz Karimi, "Random derivative-free algorithm for solving unconstrained or bound constrained continuously differentiable non-linear problems", OPTIMIZATION METHODS & SOFTWARE, March 2015 Vol. 0, Num. 0, Page 0-0, March 2015,
- 30 A.Motaghi, Reza Ezzati, Esmail Khorram, "A New Method For Solving Fuzzy Linear Programming Problems Based on the Fuzzy on the Fuzzy linear Complementary problem (FLCP)", INTERNATIONAL JOURNAL OF FUZZY SYSTEMS, March 2015 Vol. 17, Num. 2, Page 236-245, March 2015,

- 31 Ehsan Moosavi, J.Gholamnejad, Majid Ataee Pour, Esmail Khorram, "Optimal extraction sequence modeling for open pit mining operation considering the dynamic cutoff grade", *GOSPODARKA SUROWCAMI MINERALNYMI-MINERAL RESOURCES MANAGEMENT*, January 2015 Vol. 30, Num. 2, Page 173-186, January 2015,
- 32 Ehsan. Moosavi, J.Gholamnejad, Majid Ataee Pour, Esmail Khorram, "A hybrid augmented lagrangian multiplier method for the open pit mines long-term production scheduling problem optimization", *JOURNAL OF MINING SCIENCE*, January 2015 Vol. 50, Num. 6, Page 1047-1060, January 2015,
- 33 Ehsan Moosavi, J.Gholamnejad, Majid Ataee Pour, Esmail Khorram, "Improvement of Lagrangian relaxation performance for open pit mines constrained long-term production scheduling problem", *Journal of Central south university*, January 2015 Vol. 21, Num. 1, Page 2848-2856, January 2015,
- 34 Esmail Khorram, R.Ezzati, Z.Valizadeh, "Linear fractional multi-objective optimization problems subject to fuzzy relational equations with a continuous Archimedean triangular norm", *INFORMATION SCIENCES*, December 2014 Vol. 257, Num. 0, Page 225-239, December 2014,
- 35 Kouchakinezhad, Esmail Khorram, M. Mashinchi, "Fuzzy optimization of linear objective function subject to max-average relational inequality constraints.", *JOURNAL OF INTELLIGENT & FUZZY SYSTEMS*, November 2014 Vol. ***, Num. 0, Page 0-0, November 2014,
- 36 Zahra Sadat Meshkani Farahani, Esmail Khorram, "Statistical Inference of Weighted Exponential Lifetimes Under Progressive Type-II Censoring Scheme", *Quality Technology & Quantitative Management*, October 2014 Vol. 11, Num. 4, Page 433-451, October 2014,
- 37 Akram Kohansal, Dr Saeid Rezakhah Varnousefadernai, Esmail Khorram, "Parameter Estimation of Type-II Hybrid Censored Weighted Exponential Distribution", *COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION*, October 2014 Vol. 44, Num. 5, Page 1273-1299, October 2014,
- 38 Kazhal Khaledian, Esmail Khorram, Behrooz Karimi, "Characterizing epsilon-properly efficient solutions", *OPTIMIZATION METHODS & SOFTWARE*, August 2014 Vol. **, Num. 0, Page 0-0, August 2014,
- 39 Masoud Zarepisheh, Esmail Khorram, Panos M. Pardalos, "Generating properly efficient points in multi-objective programs by the nonlinear weighted sum scalarization method", *OPTIMIZATION*, July 2014 Vol. 63, Num. 3, Page 473-486, July 2014,
- 40 A.Mottaghi, Reza Ezzati, Esmail Khorram, "Resource allocation in data envelopment analysis with Fuzzy inputs and Fuzzy output.", *MAGNT Research Report*, June 2014 Vol. 2, Num. 7, Page 4041-4065, June 2014,
- 41 Narges Rastegar, Esmail Khorram, "Relaxation of constraints in lexicographic multiobjective programming problems", *OPTIMIZATION*, June 2014 Vol. ****, Num. 0, Page 0-0, June 2014,
- 42 Esmail Khorram, Kazhal Khaledian, M. Khaledyan, "A Numerical Method for Constructing the Pareto Front of Multi-objective Optimization Problems", *JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS*, April 2014 Vol. 261, Num. 5, Page 158-171, April 2014,
- 43 Kazhal Khaledian, Esmail Khorram, Majid Soleimani-Damaneh, "Strongly Proper Efficient Solutions: Efficient Solutions with Bounded Trade-offs", *JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS*, December 2013 Vol. ***, Num. 0, Page 0-0, December 2013,
- 44 Esmail Khorram, Narges Rastegar, "A combined scalarizing method for multiobjective programming problems", *EUROPEAN JOURNAL OF OPERATIONAL RESEARCH*, December 2013 Vol. ***, Num. 0, Page 0-0, December 2013,
- 45 Reza Ezzati, Esmail Khorram, Reza Enayati, "A particular simplex algorithm to solve fuzzy lexicographic multi-objective linear programming problems and their sensitivity analysis on the priority of the objective functions", *JOURNAL OF INTELLIGENT & FUZZY SYSTEMS*, July 2013 Vol. **, Num. 0, Page 0-0, July 2013,
- 46 Shirin Shoaei, Esmail Khorram, "Stress-strength reliability of a two-parameter bathtub-shaped lifetime distribution based on progressively censored samples", *COMMUNICATIONS IN STATISTICS-THEORY AND METHODS*, June 2013 Vol. ***, Num. 0, Page 0-0, June 2013,
- 47 R. Ezzati, Esmail Khorram, R. Enayati, "A New Algorithm to Solve Fully Fuzzy Linear Programming Problems Using the MOLP Problem", *APPLIED MATHEMATICAL MODELLING*, March 2013 Vol. inpress, Num. 0, Page 0-0, March 2013,

- 48 R.Ezzati, Esmail Khorram, A.Mottaghi, R.Enayati, "Using Min- Max method to solve a full fuzzy linear programming", Australian Journal of Basic and Applied Sciences, February 2013 Vol. 5, Num. 7, Page 440-449, February 2013,
- 49 Salman Babayi, Esmail Khorram, Farzad Tondro, "Inference of $R=P[X < Y]$ for generalized logistic distribution", STATISTICS, January 2013 Vol. ***, Num. 0, Page 1-10, January 2013,
- 50 Zahra Sadat Meshkani Farahani, Esmail Khorram, "Baysian Statistical Inference for Weighted Exponential Distribution", COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, November 2012 Vol. ***, Num. 0, Page 0-0, November 2012,
- 51 Esmail Khorram, Vahid Nozari, "MULTI-OBJECTIVE OPTIMIZATION WITH PREEMPTIVE PRIORITY SUBJECT TO FUZZY RELATION EQUATION CONSTRAINTS", IRANIAN JOURNAL OF FUZZY SYSTEMS, November 2012 Vol. 9, Num. 3, Page 27-45, November 2012,
- 52 Taha Hossein Hejazi, Mirmehdi Seyed Esfahani, Esmail Khorram, "Stress- strength Reliability Improvement Using Multiple Response Surface Methodology", , September 2012 Vol. 46, Num. 2, Page 175-183, September 2012,
- 53 Fariba Hemati Gazafi, Esmail Khorram, "Statistical Analysis of the Log-Normal Distribution under Type-II Progressive Hybrid Censoring Schemes", COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, September 2012 Vol. 42, Num. 0, Page 52-57, September 2012,
- 54 Majid Yousefikhoshbakht, Esmail Khorram, "Solving the vehicle routing problem by a hybrid meta-heuristic algorithm", Journal of Industrial Engineering International, August 2012 Vol. 8, Num. 11, Page 3-9, August 2012,
- 55 Shirin Shoaei, Esmail Khorram, "A new absolute continuous bivariate generalized exponential distribution", JOURNAL OF STATISTICAL PLANNING AND INFERENCE, June 2012 Vol. 142, Num. 7, Page 2203-2220, June 2012,
- 56 Esmail Khorram, Mohammad Ali Taqvazadeh, Reza Ezzati, "Solving nonlinear multi-objective optimization problems with fuzzy relation inequality constraints regarding Archimedean triangular norm compositions", FUZZY OPTIMIZATION AND DECISION MAKING, May 2012 Vol. 11, Num. 0, Page 299-335, May 2012,
- 57 Barat Allah Ghaznavi Ghosoni, Esmail Khorram, M. Soleimani-Damaneh, "Scalarization for characterization of approximate strong/weak/ proper efficiency in multi-objective optimization", OPTIMIZATION, May 2012 Vol. **, Num. 0, Page 1-20, May 2012,
- 58 Zahra Mashayekhi Zadeh, Esmail Khorram, "Convexity of chance constrained programming problems with respect to a new generalized concavity notion", ANNALS OF OPERATIONS RESEARCH, April 2012 Vol. **, Num. 0, Page 1-12, April 2012,
- 59 Amin Ghodousian, Esmail Khorram, "Linear optimization with an arbitrary fuzzy relational inequality", FUZZY SETS AND SYSTEMS, April 2012 Vol. 206, Num. 0, Page 89-102, April 2012,
- 60 Barat Allah Ghaznavi Ghosoni, Esmail Khorram, "On approximating weakly/properly efficient solutions in multi-objective programming", MATHEMATICAL AND COMPUTER MODELLING, December 2011 Vol. 54, Num. 11, Page 3172-3181, December 2011,
- 61 Esmail Keshavarz, Esmail Khorram, "A fuzzy bi-criteria transportation problem", COMPUTERS & INDUSTRIAL ENGINEERING, November 2011 Vol. 61, Num. 4, Page 947-957, November 2011,
- 62 Masoud Zarepisheh, Esmail Khorram, "On the transformation of lexicographic nonlinear multiobjective programs to single objective programs", MATHEMATICAL METHODS OF OPERATIONS RESEARCH, September 2011 Vol. 74, Num. 2, Page 217-231, September 2011,
- 63 Majid Jaberipour, Esmail Khorram, Behrooz Karimi, "Particle swarm algorithm for solving systems of nonlinear equations", COMPUTERS & MATHEMATICS WITH APPLICATIONS, July 2011 Vol. 62, Num. 2, Page 566-576, July 2011,
- 64 Reza Ezzati, Esmail Khorram, Enayati Ramin, Azam Motaghi, "Using min-max method to solve a full fuzzy linear programming", Australian Journal of Basic and Applied Sciences, June 2011 Vol. 5, Num. 7, Page 440-449, June 2011,
- 65 Esmail Khorram, Majid Jaberipour, "Harmony search algorithm for solving combined heat and power economic dispatch problems", ENERGY CONVERSION AND MANAGEMENT, February 2011 Vol. 0, Num. 52, Page 1550-1554, February 2011,

- 66 Reza Hassanzadeh, Esmail Khorram, Iraj Mahdavi, Nezam Mahdavi- Amiri, "A genetic algorithm for optimization problems with fuzzy relation constraints using max-product composition", APPLIED SOFT COMPUTING, January 2011 Vol. 11, Num. 1, Page 551-560, January 2011,
- 67 Fariba Hemati Gazafi, Esmail Khorram, Dr Saeid Rezakhah Varnousefadernai, "A new three-parameter generalized distribution", JOURNAL OF STATISTICAL PLANNING AND INFERENCE, January 2011 Vol. 0, Num. 0, Page 0-0, January 2011,
- 68 Elyas Shivanian, Esmail Khorram, "Optimization of linear objective function subject to fuzzy relation inequalities constraints with max-product composition", Iranian Journal of Fuzzy systems, November 2010 Vol. 7, Num. 3, Page 51-71, November 2010,
- 69 Esmail Khorram, Masoud Zarepisheh, Barat Allah Ghaznavi Ghosoni, "Sensitivity analysis on the priority of the objective functions in lexicographic multiple objective linear programs", EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, August 2010 Vol. 243, Num. 3, Page 1162-1168, August 2010,
- 70 Majid Jaberipour, Esmail Khorram, "Two improved harmony search algorithms for solving engineering optimization problems", COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, June 2010 Vol. 0, Num. 15, Page 3316-3331, June 2010,
- 71 Majid Jaberipour, Esmail Khorram, "A new harmony search algorithm for solving mixed-discrete engineering optimization problems", ENGINEERING OPTIMIZATION, June 2010 Vol. 0, Num. 0, Page 1-17, June 2010,
- 72 Ali Abbas Molai, Esmail Khorram, "Erratum to Another modification from two papers of Ghodousian and Khorram and Khorram et al. [Appl. Math. Comput. 197(2008)559-565]", APPLIED MATHEMATICS AND COMPUTATION, December 2009 Vol. 215, Num. 9, Page 3488-3488, December 2009,
- 73 Mehdi Ghatee, S. Mehdi Tashakkori Hashemi, Masoud Zarepisheh, Esmail Khorram, "Preemptive priority-based algorithms for fuzzy minimal cost flow problem: An application in hazardous materials transportation", COMPUTERS & INDUSTRIAL ENGINEERING, December 2009 Vol. 57, Num. 1, Page 341-354, December 2009,
- 74 Esmail Keshavarz, Esmail Khorram, "A fuzzy shortest path with the highest reliability", , August 2009 Vol. , Num. 230, Page 0-0, August 2009,
- 75 Elyas Shivanian, Esmail Khorram, "Monomial geometric programming with fuzzy relation inequality constraints with max-product composition", , May 2009 Vol. , Num. 56, Page 0-0, May 2009,
- 76 Zahra Mashayekhi Zadeh, Esmail Khorram, "On optimizing a linear objective function subjected to fuzzy relation inequalities", , March 2009 Vol. , Num. 3, Page 0-0, March 2009,
- 77 Esmail Khorram, Hasan Zarei, "Multi-objective optimization problems with Fuzzy relation equation constraints regarding max-average composition", , March 2009 Vol. , Num. 49, Page 0-0, March 2009,
- 78 Hasan Zarei, Esmail Khorram, [en-name N/A], "Multi-Purpose Optimization Regarding Constraints of Fuzzy Relation Equation", , December 2008 Vol. 0, Num. 0, Page 0-0, December 2008,
- 79 Javad Gholam Nejad, Morteza Gholi Osanloo, Esmail Khorram, "A Chance Constrained Integer Programming Model for Open Pit Long -Term Production Planning", , November 2008 Vol. , Num. 4, Page 0-0, November 2008,
- 80 Esmail Khorram, "Solving nonlinear optimization problems subjected to fuzzy relation equation constraints with max-average composition using a modified genetic algorithm", , August 2008 Vol. , Num. 55, Page 0-0, August 2008,
- 81 Ali Abbas Molai, Esmail Khorram, "Another modification from two papers of Ghodousian and Khorram and Khorram et al.", , April 2008 Vol. , Num. 197, Page 0-0, April 2008,
- 82 Ali Abbas Molai, Esmail Khorram, "An algorithm for solving fuzzy relation equations with max-T composition operator", , March 2008 Vol. , Num. 178, Page 0-0, March 2008,
- 83 Ali Abbas Molai, Esmail Khorram, "Minimizing A Linear Objective Function Subject to Fuzzy Relation Equations Constraints With Max -Hamacher Product Composition", , March 2008 Vol. , Num. 2, Page 0-0, March 2008,
- 84 Esmail Khorram, "An Optimal Queuing Model by Dynamic Numbers of Repairman in Finite Population Queuing System", Quality Technology & Quantitative Management, March 2008 Vol. 5, Num. 4, Page 321-329, March 2008,

- 85 Amin Ghodousian, Esmale Khorram, "Fuzzy Linear Optimization in The Presence of The Fuzzy Relation Inequality Constraints With Max -Min Composition", , January 2008 Vol. , Num. 178, Page 0-0, January 2008,
- 86 Elyas Shivanian, Esmale Khorram, Amin Ghodousian, "Optimization of Linear Objective Function Subject to Fuzzy Relation Inequalities Constraints With Max -Average Composition", , September 2007 Vol. , Num. 2, Page 0-0, September 2007,
- 87 Ali Abbas Molai, Esmale Khorram, "Linear Programming Problem With Interval Coefficients and an Interpretation for Its Constraints", , May 2007 Vol. , Num. 0, Page 0-0, May 2007,
- 88 Ali Abbas Molai, Esmale Khorram, "A Modified Algorithm for the Proposed Models by Ghodousian and Khorram and Khorram and Ghodousian", , February 2007 Vol. , Num. , Page 0-0, February 2007,
- 89 Esmale Khorram, Sadegh Rezaei, "OPTIMUM TIME OF REPAIR OR REPLACEMENT OF EQUIPMENTS", Amirkabir International Journal of Modeling, Identification, Simulation & Control, January 2007 Vol. 63, Num. 16, Page 9-16, January 2007,
- 90 Amin Ghodousian, Esmale Khorram, "Solving a Linear Programming Problem With The Convex Combination of The Max -Min And The Max -Average Fuzzy Relation Equations", , December 2006 Vol. , Num. 1, Page 0-0, December 2006,
- 91 Esmale Khorram, Amin Ghodousian, Ali Abbas Molai, "Solving linear optimization problems with max-star composition equation constraints", , July 2006 Vol. , Num. 1, Page 0-0, July 2006,
- 92 Amin Ghodousian, Esmale Khorram, "An algorithm for optimizing the linear function with fuzzy relation equation constraints regarding max-prod composition", , July 2006 Vol. , Num. 1, Page 0-0, July 2006,
- 93 Esmale Khorram, Amin Ghodousian, "Linear Objective Function Optimization With Fuzzy Relation Equation Constraints Regarding Max _av Composition", , February 2006 Vol. , Num. 173, Page 0-0, February 2006,
- 94 Esmale Khorram, [en-name N/A], "Optimum time of Repair or Replacement of Equipments", , December 2005 Vol. 0, Num. 0, Page 0-0, December 2005,
- 95 Seid Karim Alimohamedi Gelodar, Esmale Khorram, "Evaluation of Machines Efficiency Patrolling with Random Patrolling", , December 2005 Vol. 0, Num. 0, Page 0-0, December 2005,
- 96 Esmale Khorram, Sadegh Rezaei, "Optimum time of Repair or Replacement of Equipments", Amirkabir International Journal of Modeling, Identification, Simulation & Control, December 2005 Vol. 16, Num. 0, Page 9-16, December 2005,
- 97 Mehdi Sohrabi Haghghat, Esmale Khorram, "The maximum and minimum number of efficient units in DEA with interval data", , April 2005 Vol. , Num. , Page 0-0, April 2005,
- 98 Brian D.Bunday, [en-name N/A], Esmale Khorram, "The efficiency of two groups of heterogeneous stations cared for by roperatives with a priority group", , October 1997 Vol. , Num. 21, Page 0-0, October 1997,
- 99 Brian D.Bunday, Esmale Khorram, "The efficiency of N machines equally spaced round a circular drum which rotates against r fixed robot operatives", , April 1990 Vol. , Num. 15, Page 0-0, April 1990,
- 100 Brian D.Bunday, Esmale Khorram, "The efficiency of uni-directionally patrolled machines with two robot repairman", , December 1989 Vol. , Num. 39, Page 0-0, December 1989,
- 101 Brian D.Bunday, Esmale Khorram, "Closed form solution for the G/M/r machine interference model," , September 1988 Vol. , Num. 26, Page 0-0, September 1988,
- 102 Brian D.Bunday, Esmale Khorram, "The finite source queuing model for multiprogrammed systems with different CPU times and different I/o times", , August 1988 Vol. , Num. 8, Page 0-0, August 1988,
- 103 Brian D.Bunday, Esmale Khorram, "The gain in efficiency of autoconer from adding a second knoter", , February 1988 Vol. , Num. 79, Page 0-0, February 1988,
- 104 Esmale Khorram, "Sloving nonlinear optimization problems subjected to fuzzy relation equation constraints with max -product composition using a modified genetic algoritms", , Vol. 0, Num. 0, Page 0-0, ,






Conference Papers

Portal Records

- 1 E.Moosavi, Gholamnejad, Majid Ataee Pour, Esmale Khorram, "Production scheduling using Augmented Lagrangian and genetic Algorithm Optimization ", 24th International mining Congress and Exhibition of Turkey-IMCET 15 Antalya April 14-17n .2015, April 2016
- 2 Fateme Kouchakinejad, Mashaallah Machinchi, Esmale Khorram, "Solving multi-objective linear programming problems with fuzzy goals in the presence of fuzzy ", The Joint Iranian Congress of Fuzzy and Intelligent Systems (CFIS), September 2015
- 3 F.Kouchakinejad, Esmale Khorram, M.Machinchi, "Solving Fully Intuitionistic Fuzzy Linear Programming Problem with Unrestricted Variables ", 14th Iranian Conference on Fuzzy systems, August 2015
- 4 Ehsan Moosavi, Gholamnegad Javad, Majid Ataee Pour, Esmale Khorram, "Production Scheduling Using Augmented Lagrangian Relaxation and Genetic Algorithm Optimisation ", 24th INTERNATIONAL MINING CONGRESS OF TURKEY (IMCET 2015), April 2015
- 5 Ehsan Moosavi, Majid Ataee Pour, Javad Gholamnejad, Esmale Khorram, "A New Model for Simultaneous Optimization of Production Scheduling and Cutoff Grades in Open Pit Mines ", 10th International Industrial Engineering Conference, January 2014
- 6 Ehsan Musavi, Majid Ataee Pour, Javad Gholamnejad, Esmale Khorram, "A Lagrangian Relaxation-Genetic Algorithm Heuristic for the Open Pit Mines Production Scheduling Problem ", First International Conference on Mining, Mineral Processing, Metallurgical and Environmental Engineering, September 2013
- 7 Narges Rastegar, Esmale Khorram, "Relation of constraints in lexicographic multiobjective programming problems ", The 2nd International Conference on OPERATION RESEARCH & OPTIMIZATION, January 2013
- 8 Kazhal Khaledian, Esmale Khorram, "A Numerical method for Constructing thePareto Forn of Multiple Objective Optimization Problems ", The 2th International Conference on OPERATION RESEARCH &OPTIMIZATION, January 2013
- 9 Ehsan Moosavi, Javad Gholam-Nejad, Majid Ataee Pour, Esmale Khorram, "Optimal cut-off grades calculated in open pit mines withgoal of minimising the deviation from the average grade ", 4th Iranian Mmining Eengineering Conference, October 2012
- 10 Fariba Hemati Gazafi, Esmale Khorram, "Progressively Type-II Hybrid Censoring Schemes with Log-Normal Distribution ", The Seventh IMT-GT International Conference on Mathematics, Statistics and its Applications (ICMSA 2011), July 2011
- 11 Farnaz Hooshmand Khaligh, Esmale Khorram, "Similarity aggregation in ontology matching based on reliability maximization ", 2011 19th Iranian Conference on Electrical Engineering, ICEE 2011 , art. no. 5955510, May 2011
- 12 Esmale Keshavarz, Esmale Khorram, "Tree of Fuzzy shortest paths based on degree of possibility ", , July 2010
- 13 Barat Allah Ghaznavi Ghosoni, Esmale Khorram, "Some methods for generating Epsilon -properly efficiency solutions in multiobjective programming ", , September 2009
- 14 Fariba Hemati Gazafi, Esmale Khorram, "A new three -parameter ageing distribution ", , August 2009
- 15 Masoud Zarepisheh, Esmale Khorram, "The transormation of lexicographic nonlinear multiobjective prpgrams into single objective prpgrams ", , May 2009
- 16 Esmale Khorram, "Two finit capacity connected queues with service in radom order ", , May 2009
- 17 Atefeh Razaghnia Karoe, E.Pasha, Esmale Khorram, A.Razzaghnia, "fuzzy linear regression analysis with trapezoidal coefficients ", first joint congress on fuzzy and intelligent systems, August 2007

- 18 Seyed Mohammadreza Mirzababaei, Esmail Khorram, "A Novel Neural Network Structure for Feature Extracton " , , September 2005
- 19 Ali Akbar Jamshidi Far, Esmail Khorram, Ahmad Afshar, "Applying queuing theory in multiple access method of store and forward satellite " , , September 2005
- 20 Esmail Khorram, Seyed Mohammadreza Mirzababaei, "Finding an Optimized Discriminate Function For Internet Application Recognition " , , August 2005
- 21 Esmail Khorram, Mahdi Moeini, "Some new results of DEA-like models " , , September 2003
- 22 Esmail Khorram, "G/M/r with types failure " , , January 2001
- 23 Esmail Khorram, "A closed form solution for the machine inthe ference when each machine liable r types failure and there are r operative that each of them is only specialized in one type failure " , , March 1998
- 24 Esmail Khorram, "The efficiency of two groups machines cared for by r operatives " , , September 1995
- 25 Esmail Khorram, "The efficiency of two groups of heterogeneous stations cared for by r operatives with priority group. " , , March 1995
- 26 Esmail Khorram, "The efficiency of certain queuing models " , , March 1992
- 27 Esmail Khorram, "The efficiency of uni-directionally patrolled machines with two robot repairman " , , January 1992
- 28 Brian D.Bunday, Esmail Khorram, "The availability of machine which are regularly patrolled " , , May 1988

Taught Courses

#	Course title	Description	Headlines	Date
1	Statistical Inference (II)	**		Spring 2021
2	Statistical Inference (I)	Considering the resulted models from sampling and estimation of thier parameters and obtaining optimal estimator		Fall 2020
3	Multi-objective Optimization	we are going to optimize a MOP		Fall 2020
4	Network Optimization	Optimization of networks and transportation from the point of view of operations research		Spring 2020
5	Engineering Statistics	analysing and describing some statistical methods from engineering point of view and their applications		Spring 2020